Miniature Power Relays

CSM_MY-GS_DS_E_6_1

¶U 🚯 🖄 (€ 🚥 Ro

Mechanical Indicators Added as a Standard Feature to Our Best-selling MY General-purpose Relays

- A lineup of models with latching levers added for easier circuit checking.
- Reduces wiring work by 60% when combined with the PYF-PU Push-In Plus Socket (according to actual OMRON measurements).
- Relays with AC and DC coils have different colors of operating indicators (LEDs).
- Printing on the coil tape indicates the operating coil specification.
- Mechanical operation indicators are a standard feature on all models.
- RoHS complaint.
- UL, CSA, IEC (VDE certification), and CQC.

Refer to the Common Relay Precautions.

Features

Common to all specifications

- Mechanical indicators are a standard feature on all models so that you can easily check the contact status.
- The color of the LED shows whether the coil voltage is AC or DC.

Mechanical indicators

(one on left and one on right) Contacts ON (coil energized)

LED operation indicator Relay with AC coil: Red — Relay with DC coil: Green



Relay with AC Coil (LED: Red)

Contacts OFF (coil de-energized)





Relay with AC Coil (LED: Red)

Relay with DC Coil (LED: Green)

With latching lever

- Useful for the operation check of relay sequence circuits.
- The coil voltage AC/DC can be identified by the color of the latching lever (AC coil specification: red, DC coil specification: Blue).



Latching lever operating method

	Normal State	Mode 1: Momentary State	Mode 2: Locked State
When seen from the top		Yellow button	
When seen from the side			
Operation Description		Slide the lever one step and press the yellow button with an insulated tool to operate the contacts.	If you slide the lever two steps, the contacts lock in the operation position

Model Number Structure

Model Number Legend

MY 🗆 🗆 – 🗆 🗆 - GS DC24

- 1 2 3 4
- 1. Number of Poles 2: 2 poles 4: 4 poles
- 2. Latching Lever Blank:Without latching lever I: With latching lever
- LED Operation Indicator Blank:Built-in mechanical indicators N: LED operation indicator and built-in mechanical indicators

5

- Coil Surge Absorption Blank:Standard models D2: Models with built-in diodes CR: Models with built-in CR circuits
- 5. Operating Coil Voltage Display Example: DC24

List of Models

Miniature Power Relays (MY-GS)

			Plug-in (octal pins) terminals		
Category	Number of	Contact	L _{TT}	With operation indicator	
Calegory	poles	structure			With latching lever
Standard models	2	Single	MY2-GS	MY2N-GS	MY2IN-GS
Standard models	4		MY4-GS	MY4N-GS	MY4IN-GS
Models with built-in diodes	2			MY2N-D2-GS	MY2IN-D2-GS
for coil surge absorption	4			MY4N-D2-GS	MY4IN-D2-GS
Models with built-in CR circuits	2			MY2N-CR-GS	MY2IN-CR-GS
for coil surge absorption	4			MY4N-CR-GS	MY4IN-CR-GS

Ordering Information

Main unit Standard model without operation indicator

Number of poles	Model	Rated voltage (V)
2		12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110 VDC
4		12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110 VDC

Standard model with operation indicator

Number of poles	Model	Rated voltage (V)	
2		12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC	
4		12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC	

Standard model with operation indicator and latching lever

Number of poles	Model	Rated voltage (V)	
2	MY2IN-GS	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC	
4	MY4IN-GS	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC	

Models with built-in diodes for coil surge absorption with operation indicator

Number of poles	Model	Rated voltage (V)
2	MY2N-D2-GS	12, 24, 48, 100/110, 220 VDC
4	MY4N-D2-GS	12, 24, 48, 100/110, 220 VDC

Models with built-in diodes for coil surge absorption with operation indicator and latching lever

Number of poles	Model	Rated voltage (V)
2	MY2IN-D2-GS	12, 24, 48, 100/110, 220 VDC
4	MY4IN-D2-GS	12, 24, 48, 100/110, 220 VDC

Models with built-in CR circuits for coil surge absorption with operation indicator

Number of poles	f poles Model Rated voltage (V)	
2	MY2N-CR-GS	100/110, 110/120, 200/220, 220/240 VAC
4	MY4N-CR-GS	100/110, 110/120, 200/220, 220/240 VAC

Models with built-in CR circuits for coil surge absorption with operation indicator and latching lever

Number of poles	Model	Rated voltage (V)	
2	MY2IN-CR-GS	100/110, 110/120, 200/220, 220/240 VAC	
4	MY4IN-CR-GS	100/110, 110/120, 200/220, 220/240 VAC	

Options (order separately)

Front-mounting Sockets

Number of Pins	Applicable Relay Model	Terminal Type	Mounting Method	Appearance	Model	Hold-down Clips
	MY2-GS MY2N-GS MY2IN-GS 8 MY2N-D2-GS MY2IN-D2-GS MY2N-CR-GS	Screw terminal Finger protection structure * 1 (Screw size M3)	DIN Track or screw mounting		PYFZ-08-E	PYC-A1 *3
8		Screw terminal Finger protection structure * 1 (Screw size M3)	DIN Track or screw mounting		PYF08A-N	PYC-A1*3
MY2IN-CR-GS	MITZIN-CR-03	Push-In Plus Terminal (Integrated Socket with release lever)	DIN Track or screw mounting *2		PYF-08-PU	
		Screw terminal Finger protection structure * 1 (Screw size M3)	DIN Track or screw mounting		PYFZ-14-E	PYC-A1 *3
MY4-GS MY4N-GS MY4IN-GS 14 MY4N-D2-GS MY4IN-D2-GS MY4N-CR-GS MY4IN-CR-GS	MY4N-GS MY4IN-GS MY4N-D2-GS MY4IN-D2-GS MY4N-CR-GS	Screw terminal Finger protection structure * 1 (Screw size M3)	DIN Track or screw mounting		PYF14A-N	PYC-A1 *3
	WI + 11 Y O T - G G	Push-In Plus Terminal (Integrated Socket with release lever)	DIN Track or screw mounting *2		PYF-14-PU	

*1. In the finger protection type (PYFZ--E, and PYF-A-N), the terminal cover is integrated into the Socket. Round terminals cannot be used. Use forked terminals or ferrules instead.

*2. There are screw mounting holes in the DIN hooks on the PYF-D-PU. Pull out the DIN hook tabs to mount the Sockets with screws.

***3.** Model number of the applicable Mounting Bracket. Sold in sets of two.

Back-mounting Sockets

Number of Pins	Applicable Relay Model	Terminal Type	Appearance	Model	Hold-down Clips
8	PY08-02	PCB terminals		PY08-02	PYC-P
14	PY14-02	PCB terminals		PY14-02	

Socket accessories Mounting Bracket					
Appearance *1	Model	Weight *2	Application		
	РҮС-А1	Approx. 0.54 g	For joining the Socket and Relay		
	РҮС-Р	Approx. 1.4 g	For joining the Socket and Relay		

***1.** Describes the appearance when the Relay, Socket, and Mounting Bracket have been combined together. ***2.** The PYC-A1 includes two Mounting Brackets in one set. The weight specified above is the weight of one Mounting Bracket.

Ratings and Specifications

Ratings

Main unit

Operating Coil

		Rated current (mA)		Coil	Coil indu	uctance (H)	Must-operate voltage	Must-release voltage	Maximum voltage	Power	
		50 Hz	60 Hz	resistance (Ω)	Armature OFF	Armature ON	Perce	ntage of rated v	oltage	consumption (VA, W)	
	12	106.5	91	46	0.17	0.33					
	24	53.8	46	180	0.69	1.3					
	48	25.7	21.1	788	3.22	5.66			in. *2 110%	Approx. 0.9 to 1.3 (at 60 Hz)	
AC	100/110	11.7/12.9	10.0/11.0	3,750	14.54	24.6		30% min. *2			
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1					
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07					
	220/240	5.2/6.2	4.3/5.0	15,920	83.5	136.4					
	6	146 (151)		41.0 (39.8)	0.17	0.33	80% max. *1			110%	
	12	72.7 (75)		165 (160)	0.73	1.37					
	24	36.3 (37.7)		662 (636)	3.2	5.72	_				
DC	48	17.6 (18.8)		2,725 (2,560)	10.6	21.0	10% min. *2		Approx. 0.9		
	100/110	8.7 (9.0)/9.6 (9.9)		11,440 (11,100)	45.6	86.2					
	220	3.6		60,394	362.3	452.9				Approx. 0.8	

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and +15% for the DC coil resistance.

2. The AC coil resistance and inductance values are reference values only (at 60 Hz).

3. Operating characteristics were measured at a coil temperature of 23°C.

4. The values in parentheses for the rated currents and coil voltages of DC coils are for models with LED operation indicators.

5. The maximum voltage capacity was measured at an ambient temperature of 23°C.

*1. There is variation between products, but actual values are 80% max. The Relay will operate if 80% or higher of the rated voltage is applied. However, to achieve the specified characteristics, apply the rated voltage to the coil.

*2. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

Contacts

		2 poles			4 poles		
	Resisti	ve load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resist	ive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	
Contact configuration	DPDT			4PDT			
Contact structure	Single						
Contact material	Ag						
Rated load	7 A at 250 VAC 7 A at 30 VDC	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC	6 A at 250 VAC 6 A at 30 VDC	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC	
Electrical endurance *1	120,000 operations	500,000 operation	าร	30,000 operations	200,000 operations		
Rated carry current *2	7 A			6 A			
Maximum contact voltage	250 VAC, 220 VD	C		250 VAC, 220 VDC			
Maximum contact current *2	7 A			6 A			
Maximum switching1,750 VAcapacity210 W			440 VA 48 W	1,500 VA 180 W		176 VA 36 W	
Minimum load (reference values) *3	1 mA at 5 VDC		+	·		•	

*1. Rated load, switching frequency: 2,400 operations/h. Ambient temperature condition: 23°C. Duty ratio: 33%.

*2. 2 poles of 7 A is for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 5 A.

4 poles of 6 A is for an ambient temperature of 50°C. At an ambient temperature of 70°C, the value is 3 A. ***3.** These values are guides for the switchable limits for minute load levels, such as in electronic circuits. Actual characteristics may be different. These values will depend on the switching frequency, atmosphere, and expected reliability level. Confirm applicability in the actual system under actual application conditions.

Characteristics Main unit

		2 poles	4 poles		
Contact resistance *1		100 mΩ max.			
Operation time *2		20 ms max.			
Release time *2		20 ms max.			
Maximum operating	Mechanical	18, 000 operations/h			
frequency	Rated load	2,400 operations/h			
Insulation resistance '	*3	1,000 MΩ min.			
	Between coil and contacts	2,000 VAC at 50/60 Hz for 1 min.			
Dielectric strength	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min.			
	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.			
Vibration resistance	Destruction	10 to 55 to 10 Hz, Double amplitude: 1.0 mm			
VIDIATION resistance	Malfunction	10 to 55 to 10 Hz, Double amplitude: 1.0 mm	to 55 to 10 Hz, Double amplitude: 1.0 mm		
Shock resistance	Destruction	1,000 m/s ² (approx. 100 G)			
SHOCK resistance	Malfunction	200 m/s ² (Approx. 20 G)			
Mechanical endurance)	50,000,000 operations (switching frequency: 18,000 operations/h)			
Ambient operating temperature		Standard models: –55 to 70°C (with no icing or condensation) Models with LED operation indicators: –40 to 70°C (with no icing or condensation)			
Ambient humidity		5% to 85%			
Weight		Approx. 35 g			

Note: The above values are initial values.

*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method.
*2. Measurement conditions: With rated operating power applied, not including contact bounce time.
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

Options (order separately)

Sockets

							Dielectric strength				
Model	Conn ection	Number of Pins	Terminal Type	Ambient operating temperature	Ambient humidity	Continuous carry current	Between contact terminals of same polarity	Between contact terminals of different polarity	Between coil and contact terminals	Insulation resistance *1	Weight
PYFZ-08-E			Screw	−55 to 70°C	5% to 85% RH	10 A	2,250 VAC 1 min	2,250 VAC 1 min	2,250 VAC 1 min	1,000 MΩ min. (500 VDC)	Approx. 32 g
PYF08A-N		8	terminal	–55 to 55°C	5% to 85% RH	7A * 3	2,000 VAC 1 min	2,000 VAC 1 min	2,000 VAC 1 min	1,000 MΩ min. (500 VDC)	Approx. 32 g
PYF-08-PU			Push-In Plus Terminal	-40 to 70°C	5% to 85% RH	10A * 2	2,000 VAC 1 min	2,000 VAC 1 min	2,000 VAC 1 min	1,000 MΩ min. (500 VDC)	Approx. 80 g
PYFZ-14-E	Front		Screw	–55 to 70°C	5% to 85% RH	6A	2,250 VAC 1 min	2,250 VAC 1 min	2,250 VAC 1 min	1,000 MΩ min. (500 VDC)	Approx. 50 g
PYF14A-N		14	terminal	–55 to 55°C	5% to 85% RH	5A *3	2,000 VAC 1 min	2,000 VAC 1 min	2,000 VAC 1 min	1,000 MΩ min. (500 VDC)	Approx. 50 g
PYF-14-PU			Push-In Plus Terminal	−40 to 70°C	5% to 85% RH	6A	2,000 VAC 1 min	2,000 VAC 1 min	2,000 VAC 1 min	1,000 MΩ min. (500 VDC)	Approx. 87 g
PY08-02	Back	8	PCB	–55 to 70°C	5% to 85% RH	7A	1,500 VAC 1 min	1,500 VAC 1 min	1,500 VAC 1 min	100 M Ω min.	Approx. 7.2 g
PY14-02	Dack	14	terminals	–55 to 70°C	5% to 85% RH	ЗA	1,500 VAC 1 min	1,500 VAC 1 min	1,500 VAC 1 min	100 M Ω min.	Approx. 10 g

***1.** For 500 VDC applied to the same location as for dielectric strength measurement.

*2. The continuous carry current of 10 A is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

*3. When using the PYF08A-N or PYF14A-N at an ambient operating temperature exceeding 40°C, reduce the continuous carry current to 60%.

Socket Accessories For front-connecting Sockets Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
For Contact terminals		PYDN-7.75-020			
	PYF-08-PU(-L) PYF-14PU(-L)	PYDN-7.75-030	20 A	–40 to 70°C	5% to 85%RH
(common)		PYDN-7.75-040			
		PYDN-7.75-200			
For Coil terminals	PYF-08-PU(-L) PYF-14PU(-L)	PYDN-31.0-080	20 A	−40 to 70°C	5% to 85%RH

Certified Ratings for Models Certified for Safety Standards

The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

Main unit

UL-certified Models: UL508

MY-GS	Number of poles	Coil ratings	Contact ratings	Certified number of operations
	2	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	5 A, 30 VDC (General Use) 7 A, 30 VDC Resistive Load 5 A, 250 VAC (General Use) 7 A, 250 VAC Resistive Load	6,000 operations
	4	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	3 A, 30 VDC (General Use) 6 A, 30 VDC Resistive Load 3 A, 250 VAC (General Use) 6 A, 250 VAC Resistive Load	6,000 operations

CSA-certified Models: CSA C22.2 No.14

MY-GS	Number of poles	Coil ratings	Contact ratings	Certified number of operations
	2	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	5 A, 30 VDC (General Use) 7 A, 30 VDC Resistive Load 5 A, 250 VAC (General Use) 7 A, 250 VAC Resistive Load	6,000 operations
	4	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	3 A, 30 VDC (General Use) 6 A, 30 VDC Resistive Load 3 A, 250 VAC (General Use) 6 A, 250 VAC Resistive Load	6,000 operations

VDE-certified Models: EN 61810-1

MY-GS	Number of poles	Coil ratings	Contact ratings	Certified number of operations
	2	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	7 A, 30 VDC (L/R = 0) 7 A, 250 VAC (cos∳ = 1)	10,000 operations
	4	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	6 A, 30 VDC (L/R = 0) 6 A, 250 VAC (cos∳ = 1)	10,000 operations

CQC-certified Models

Model	Standard number	Certification No.
MY-GS	GB/T 21711.1	CQC18002198531

Options (order separately) Sockets

CSA certified (File No. LR031928)

Model	Ratings	Class number	Standard number
PYFZ-08-E	10A 250V		
PYFZ-14-E	6A 250V *		
PYF08A-N	7A 250V	3211 07	CSA C22.2 No14
PYF14A-N	7A 250V	321107	
PYF-08-PU	10A 250V	1	
PYF-14-PU	6A 250V *		

* When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

UL Standards Certification (File No. E87929)

Model	Ratings	Standard number	Category	Listed/ Recognized
PYFZ-08-E	10A 250V			
PYFZ-14-E	6A 250V *			
PYF08A-N	7A 250V	UL 508	SWIV2	Recognition
PYF14A-N	7A 250V	0L 308		
PYF-08-PU	10A 250V			
PYF-14-PU	6A 250V *			

* When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

TÜV Rheinland certification

Model	Ratings	Standard number	Certification No.	
PYFZ-08-E	10A 250V		R50405329	
PYFZ-14-E	6A 250V			
PYF08A-N	7A 250V	EN 61984	J50224549 R50327595	
PYF14A-N	7A 250V	EN 01984		
PYF-08-PU	10A 250V *			
PYF-14-PU	6A 250V		n00027090	

* Ratings are for an ambient temperature of up to 55°C. At an ambient temperature of 70°C, the value is 7A.

Engineering Data (Reference Value)

Maximum Switching Capacity MY2





MY2□□-□□-GS (DC load)







Endurance Curve MY2DD-DGS (Resistive Load)



MY4D-D-GS (Resistive Load)



Note: 1. Number of operations: AC load, 50 Hz, 80% 2. Switching condition: NO or NC

MY2D-D-GS (Inductive Load)



MY4D-D-GS (Inductive Load)



Ambient Temperature vs. Must-operate and Must-release Voltage MY2D-D-GS AC Models MY2D





Ambient Temperature vs. Coil Temperature Rise MY2D-D-GS AC Models, 50 Hz



MY40-0-GS AC Models, 50 Hz













MY-GS

(Unit: mm)

Dimensions

Relays









MY2IN-GS



Terminal Arrangement/Internal Connections (Bottom View)

MY2-GS		MY2⊟N-GS		MY2	I-D2-GS	MY2⊡N-CR-GS	
Standard Models	AC Models	DC Models (except 220 VDC)	DC Models (for 220 VDC)	DC Models (except 220 VDC)	DC Models (for 220 VDC)	AC Models	
(The coil has no polarity.)	(The coil has no polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has no polarity.)	

Note: 1. An AC model has coil disconnection self-diagnosis.

2. For the DC models, check the coil polarity when wiring and wire all connections correctly.

3. The indicator is red for AC and green for DC.

4. The LED operation indicators indicate the energization of the coil and do not necessarily represent contact operation.



Terminal Arrangement/Internal Connections(Bottom View)

MY4-GS		MY4⊡N-GS		MY4⊡N	-D2-GS	MY4⊡N-CR-GS
Standard Models	AC Models	DC Models (except 220 VDC)	DC Models (for 220 VDC)	DC Models (except 220 VDC)	DC Models (for 220 VDC)	DC Models
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 2 3 4 5 6 7 8 9 10 11 12 13 14	$\begin{array}{c} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \\ \hline 13 & & & & & \\ \end{array}$	1 2 3 4 5 6 7 8 9 10 11 12 13 + 14 14		1 2 3 4 5 6 7 8 9 10 11 12 13 + 14	
(The coil has no polarity.)	(The coil has no polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has no polarity.)

Note: 1. An AC model has coil disconnection self-diagnosis.

2. For the DC models, check the coil polarity when wiring and wire all connections correctly.

3. The indicator is red for AC and green for DC.

4. The LED operation indicators indicate the energization of the coil and do not necessarily represent contact operation.

Options (Order Separately)

Connection Sockets

Front-mounting Sockets



PYF-08-PU



88888

31 —

(4.2)

_ _ _ _

parentheses are

traditionally used

terminal numbers.

Note: The numbers in

27.35

3.9

25.6

- 34.3 43

52.1

Note: Pull out the hooks to

with screws.

mount the Socket

MY-GS

Back-mounting Sockets



Socket Accessories

Hold-down Clips PYC-A1 Set of 2 clips





PYC-P

Mounting Heights with Sockets (Unit: mm) Front-mounting Sockets



Back-mounting Sockets



Safety Precautions

Refer to the *Common Relay Precautions* for precautions that apply to all Relays in the website at the following URL: http://www.ia.omron.com/.

Precautions for Correct Use

Handling

For models with built-in LED operation indicators, check the coil polarity when wiring and wire all connections correctly. (DC operation).

Installation

There is no specifically required installation orientation, but make sure that the Relays are installed so that the contacts are not subjected to vibration or shock in their movement direction.

Using MY-GS Relays with Microloads with Infrequent Operation

If standard MYGS Relays are used to infrequently switch microloads, the contacts may become unstable and eventually result in poor contact. In this case, we recommend using the MY4Z-CBG Series, which has high contact reliability for microloads

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Applicable Sockets

Use only combinations of OMRON Relays and Sockets. • Use the following tightening torque for screws during wiring.

Model	Tightening torque
	0.59 to 0.88 N·m * Use a No. 1 screwdriver.

• Use the following wire diameters as a guide for wiring. (Select the appropriate wire diameter for the current used.)

Model	nended wire diameter (mm ²)	
PYFZ-08-E	Stranded wire	0.75 to 2.5 mm ² AWG 18 to 14
PYFZ-14-E	Solid wire	0.75 to 1.5 mm ² AWG 18 to 16

Latching Levers

- Turn OFF the power supply when operating the latching lever. After you use the latching lever always return it to its original state.
- Do not use the latching lever as a switch.
- The latching lever can be used for 100 operations min.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE

PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warrantv.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

2021.11

In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation Industrial Automation Company

http://www.ia.omron.com/

CSM_common_sockets_DS_E_3_14

A Wide Variety of Square and Round Sockets in Front-mounting and Back-mounting Models

- Models available with finger protection.
- Hold-down Clips and Short Bars for PYFZ/PYF Sockets are also available.
- New screwless models available.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model	P2RF (front-mounting), page 8			P2R (back	P2R (back-mounting), pages 11 and 12			
Number of pins				Solder terminals	Solder terminals PCB terminals			
	P2RF-05 Approx. 27 g	P2RFZ-05-E Approx. 30 g	P2RF-05-E* Approx. 38 g	P2R-05A Approx. 5 g	P2R-05P Approx. 5 g	P2R-057P Approx. 5.5 g	P7TF-05 Approx. 28 g	
5 pins								
	P2RF-08 Approx. 33 g	P2RFZ-08-E Approx. 38 g	P2RF-08-E* Approx. 38 g	P2R-08A Approx. 5 g	P2R-08P Approx. 5 g	P2R-087P Approx. 5.5 g		
8 pins								

Ordering Information

Note: 1. The structure of □-E models provides finger protection. Round terminals cannot be used. Use forked crimp terminals.
2. To remove the Relay, pull the lever on the Socket with your fingers supporting the lever and the opposite side of the Relay case, and jiggle the Relay.

*Use a #1 Phillips screwdriver to tighten the screws on this Socket.

Model					PY (back-mour	ting), pages 16 to 14	
Number of pins	PYF (front-mounting), pages 13 to 14		Solder	terminals	Wr	Wrapping terminals	
8 pins	PYF08A Approx. 32 g PYF08A-E *1	PYF08M Approx. 26 g PYFZ-08 Approx. 32 g PYFZ-08-E *1 Approx. 32 g	PY08 Approx. 8 g	PY08-Y1 PY08-Y3	PY08QN Approx. 12 g PY08QN2	PY08QN-Y1 PY08QN2-Y1	PY08-02 *2 Approx. 7.2 g
11 pins	PYF11A Approx. 43 g		PY11 Approx. 9 g	PY11-Y1	PY11QN PY11QN2	PY11QN-Y1 PY11QN2-Y1	PY11-02 *2
14 pins	PYF14A Approx. 49 g PYF14A-E *1	PYFZ-14 Approx. 50 g PYFZ-14-E *1 Approx. 50 g	PY14 Approx. 10 g	PY14-Y1 PY14-Y3	PY14QN Approx. 14 g PY14QN2	PY14QN-Y1 PY14QN2-Y1 PY14QN2-Y3 PY14QN2-Y3	PY14-02 *2

Note: The structure of □-E models provides finger protection. Round terminals cannot be used. Use forked crimp terminals. *1. Use a #1 Phillips screwdriver to tighten the screws on this Socket. *2. The structure does not resist flux. Manual soldering is recommended for this product.

Model		PT (back-mounting), pages 19 to 16			
Number of pins	PTF (front-mounting), pages 18 to 15	Solder terminals	Wrapping terminals	PCB terminals	
8 pins	PTF08A Approx. 47 g PTF08A-E *1	PT08 Approx. 11 g	РТО8QN Арргох. 10.4 g	PT08-0 *2 Approx. 8 g	
11 pins	PTF11A Approx. 61 g	PT11 Approx. 13 g	PT11QN	PT11-0 *2 Approx. 12.2 g	
14 pins	PTF14A Approx. 77 g PTF14A-E *1	PT14 Approx. 17 g	PT14QN Approx. 20 g	PT14-0 *2 Approx. 16.2 g	

Note: The structure of -E models provides finger protection. Round terminals cannot be used. Use forked crimp terminals. * Use a #1 Phillips screwdriver to tighten the screws on this Socket.
* The structure does not resist flux. Manual soldering is recommended for this product.

Model Number of pins	P7LF (front-mounting), page 20
6 pins	P7LF-06 Approx. 60 g

Note: Refer to Models with Standards Certification for detailed information on the models of Common Sockets that are certified for standards.

Model					PL (bac	k-mounting),	page 25
Number of pins	PF (front-mounting), page 21	P2CF (front-mounting), page 22	PFA (front-mounting), page 23	P3G (back-mounting), page 24	Solder terminals	Wrapping terminals	PCB terminals
8 pins	PF083A Approx. 34 g PF083A-E * PF085A Approx. 40 g	P2CF-08 Approx. 55 g P2CF-08-E	8PFA Approx. 57 g 8PFA1 Approx. 66 g	P3G-08 Approx. 40g Note: The Y92A-48G Terminal Cover can be used to provide finger protection.	PL08 Approx. 14 g	PL08-Q Approx. 15 g	PLE08-0 Approx. 10.6g
11 pins	PF113A Approx. 47 g PF113A-E *	P2CF-11 Approx. 70g P2CF-11-E	11PFA Approx. 74 g	P3GA-11 Approx. 47 g Note: The Y92A-48G Terminal Cover can be used to provide finger protection.	PL11 Approx. 15 g	PL11-Q Approx. 18.5A	PLE11-0 Approx. 10.8 g
14 pins			14PFA Approx. 104 g		PL15 Approx. 28 g		
20 pins					PL20 Approx. 17 g		

Note: The structure of \Box -E models provides finger protection. Round terminals cannot be used. Use forked crimp terminals. ***** Use a #1 Phillips screwdriver to tighten the screws on this Socket.

Terminal Cover

Model	Y92A-48G
Appearance	

Note: Refer to Models with Standards Certification for detailed information on the models of Common Sockets that are certified for standards.

Hold-down Clips For Square Sockets



For Round Sockets



(Unit: mm)

Applicable Hold-down Clips

For Square Sockets

Sockets Applicable models	PYF⊡A PTF⊡A	PYF08M	PY⊡(QN) PT⊡(QN)	PY⊡-02 PT⊡-0
MY□, MY□N, MY□-D, MY2□-CR, MY4□-CR, MY4□-CR, MY1-TU, MY2K, MY□-TU, MY2K, MY□-TU, MY2K, MY□-TU, MY2L, CN G3H(D) Series, G3F(D) Series, G3FM, and G9H	PYC-A1	РҮС РҮС-Р	PYC-P PYC-S	PYC-P
MYOI * LYOI			PYC-P2	
MY4H			PYC-P	
MY2ZD-CR MY3D-CR LYD-CR	Y92H-3		PYC-1	
G7K	PKC			
НЗҮ	Y92H-3	Y92H-4		

Note: The
in the model number is replaced with 08, 11, or 14.

* If you use a Hold-down Clip with the MY2I, you cannot use the PYF08A. Use the PYF14A.

For Round Sockets

Sockets Applicable models	PF083A PF113A	PL08 (-Q) PL11 (-Q)	PLE08-0 PLE11-0	P2CF-11
61F-03B, -04B	PFC-A1	PLC		
61F-GP-N, -GPN-BT 61F-GP-N8 ?61F-APN2	PFC-N8	PHC-5		
MK2P Series, MK2KP, MK3P□(-US), and G3B(D) Series	PFC-A1	PLC	PLC-10	
MK3ZP MK3LP		PLC-1		
MYA-NA1, -NB1 MYA-LA1, -LB1 MYA-NA2, -NB2 MYA-LA2, -LB2	PFC-A6	PLC-7		
MYA-LA12, -LB12	PFC-A7	PLC-8		
APR-S	PFC-A6	PLC-7		
APR-S380/-S440				Y92H-1
LG2	PFC-A7	PLC-8		
K6EL		Y92H-1		

Note: 1. The 8PFA(1), 11PFA, and 14PFA are held with hooks.
2. The PL15, PL20, and PF202, as well as models not given in the above table, require panel processing for installation.
3. The PF085A Hold-down Clip is included with the H3M and H2A. It is an option (sold separately) for the H2C.

Specifications

Socket Characteristics

Model	Continuous carry current	Dielectric strength	Insulation resistance*	Remarks
	-	Between contact terminals of same polarity: 1,000 VAC for 1 min		
P2RFZ-05-E	10 A	Between coil and contact terminals: 4,000 VAC for 1 min	- 1,000 MΩ min.	
		Between contact terminals of different polarity: 3,000 VAC for 1 min		
2RFZ-08-E	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.	
		Between coil and contact terminals: 4,000 VAC for 1 min		
	10.4	Between contact terminals of same polarity: 1,000 VAC for 1 min	4 000 140	
P2RF-05(-E)	10 A	Between coil and contact terminals: 4,000 VAC for 1 min	- 1,000 MΩ min.	
		Between contact terminals of different polarity: 3,000 VAC for 1 min		
P2RF-08(-E)	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.	
		Between coil and contact terminals: 4,000 VAC for 1 min	- '	
		Between contact terminals of same polarity: 1,000 VAC for 1 min		
P2R-05P	10 A	Between coil and contact terminals: 4.000 VAC for 1 min	- 1,000 MΩ min.	
		Between contact terminals of different polarity: 3,000 VAC for 1 min		
P2R-08P	5 A	Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.	
1 211-00F	071	Between coil and contact terminals: 4,000 VAC for 1 min		
		Between contact terminals of same polarity: 1,000 VAC for 1 min		
P2R-057P	10 A	Between coil and contact terminals: 5,000 VAC for 1 min	1,000 MΩ min.	
		Between contact terminals of different polarity: 3,000 VAC for 1 min		
P2R-087P	5 A	Between contact terminals of unerent polarity: 5,000 VAC for 1 min	1,000 MΩ min.	
F2N-007F	34	Between coll and contact terminals 5.000 VAC for 1 min	1,000 10122 111111.	
P2R-05A	10 A	Between contact terminals of same polarity: 1,000 VAC for 1 min Between ground terminals: 1,500 VAC for 1 min	1,000 MΩ min.	
F2R-03A	10 A		1,000 MIS2 MIII.	
		Between coil and contact terminals: 4,000 VAC for 1 min		
P2R-08A	5 A	Between contact terminals of different polarity: 3,000 VAC for 1 min		
		Between contact terminals of same polarity: 1,000 VAC for 1 min	1,000 MΩ min.	
		Between ground terminals: 1,500 VAC for 1 min	_	
		Between coil and contact terminals: 4,000 VAC for 1 min	1 000 140	
P7TF-05	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
	10 A	Between contact terminals of different polarity: 2,250 VAC for 1 min	1,000 MΩ min.	
PYFZ-08(-E)		Between contact terminals of same polarity: 2,250 VAC for 1 min Between coil and contact terminals: 2,250 VAC for 1 min		
PYF08A(-E)	7 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	The continuous carry current of 10 A for the PYF08S is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.
PYF11A	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
		Between contact terminals of different polarity: 2,250 VAC for 1 min	.,	
PYFZ-14(-E)	6 A	Between contact terminals of same polarity: 2,250 VAC for 1 min	1,000 MΩ min.	
()		Between coil and contact terminals: 2,250 VAC for 1 min		
PYF14A(-E)	3 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PY08(-Y1)(-Y3)	7 A	Between terminals: 1,500 VAC for 1 min	1,000 MΩ min.	
PY08QN(-Y1)	7 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY08-02	7 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY11(-Y1)	5 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY11QN(-Y1)	5 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY11-02	5 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY14(-Y1)(-Y3)	3 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY14QN(-Y1)	3 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PY14-02	3 A	Between terminals: 1,500 VAC for 1 min	100 MΩ min.	
PTF□□A(-E)	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
	10 A	Between terminals: 2,000 VAC for 1 min	100 MΩ min.	
			100 MΩ min.	
PT0	10 A	Between terminals: 2,000 VAC for 1 min Between contact terminals of different polarity: 2,000 VAC for 1 min	100 10122 111111.	
P7LF-06 30 A		Between contact terminals of same polarity: 2,000 VAC for 1 min	1,000 MΩ min.	
		Between coil and contact terminals: 4,000 VAC for 1 min		
PF	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
P2CF-□(-E)	5 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
8PFA(1)	10 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
11PFA(1)	10 A	Between terminals: 2,000 VAC for 1 min	1,000 M Ω min.	
P3G(A)-🗌	6 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	
PL□(-Q)	10 A	Between terminals: 2,000 VAC for 1 min	1,000 MΩ min.	

* The insulation resistance was measured with a 500-VDC insulation resistance meter at the same places as those used for measuring the dielectric strength.

Safety Precautions

Refer to Common Relay Precautions for general precautions.

Dimensions





Note: If an I/O SSR or Indicator Module is used, the polarity of terminal 1 is negative.

Accessories for Screw Terminal Sockets (P2RFZ-□-E) Short Bars



Note: Each Short Bar set comes with 20 Caps.

Accessories for Short Bars (P2DN) Cap









Note: If an I/O SSR or Indicator Module is used, the polarity of terminal 1 is negative.

P7TF (Unit: mm) Terminal Arrangement/ Internal Connections Dimensions **Mounting Hole Dimensions** 12.5±0.2 P7TF-05 M3 or M4* 5-M3.5×8 (4 62 Π 71.5 ma 35.5 МЗ (Top View) **Note:** Track mounting is also possible. ***** We recommend that you use washers 9 if you use M3 bolts or screws. 12.5±0.2 -19.5 Washers are not required with M4 (Top View) -60.5 max. bolts or screws.

Note: If an I/O SSR or Indicator Module is used, the polarity of terminal 1 is positive.





Relay Sockets and Short Bars for PYFZ/PYF Bridges within the Same Socket

Pitch	Applicabl e models	Appearance	Dimensions (mm)	Model	Specifications	
7 mm	PYFZ-14 PYF14A	STA.		PYD-020B□(2P)	Max. carry current: 20 A (18 A at 70°C) Ambient operating temperature: -40 to 70°C (with no icing or condensation) Ambient operating humidity: 45% to 85% (with no	
		The		PYD-030B⊟(3P)	icing or condensation) Conductor material: Brass Conductor surface treatment: Nickel plating Package qty: 50/bag	

Note: The 🗌 in the model number is replaced with the insulation color specification code. B: Black, Y: Yellow

Pitch	Applicabl e models	Appearance	Dimensions (mm)	Model	Specifications	
22 mm	PYFZ-08 PYF08A			PYD-025B□(2P)	Max. carry current: 20 A (18 A at 70°C) Ambient operating temperature: -40 to 70°C (with no icing or condensation) Ambient operating humidity: 45% to 85% (with no icing or condensation) Conductor material: Brass Conductor surface treatment: Nickel plating Package qty: 10/bag	
			40° 40° 40° 40° 40° 40° 40°	PYD-085B⊟(8P)		
29 mm	PYFZ-14 PYF14A		29 40° 40° 40° 40° 40° 40° 40° 40°	PYD-026B⊟(2P)	Max. carry current: 20 A (18 A at 70°C) Ambient operating temperature: -40 to 70°C (with icing or condensation) - Ambient operating humidity: 45% to 85% (with no	
				PYD-086B□(8P)	Conductor material: Brass Conductor material: Brass Conductor surface treatment: Nickel plating Package qty: 10/bag	

Bridges between Adjacent Sockets

Note: The 🗌 in the model number is replaced with the insulation color specification code. B: Black, S: Blue, R: Red

Terminal Covers for PYFZ-08/PYFZ-14



Note: These covers cannot be used for PYF08A and PYF14A. Use these covers in a combination with PYFZ-08 and PYFZ-14.

Dimensions with terminal cover

PYCZ-C08





PYCZ-C14











Note: 1. Use a panel with a thickness of 1 to 2 mm when mounting a Socket on it.
2. You can use the PY14-Y1 or PY14QN-Y1 for the MY4 Series, MY4H, MYQ4(Z), or MY2K.
3. You can use the PY14-Y3 or PY14QN-Y3 for H3Y Timers.



Note: If you use the PTF08A, PTF08A-E, or PT08 with an LY1 Relay, connect the following terminal pairs: 1-2, 3-4, and 5-6 (for usage at 10 A or higher).




Note: Use a panel with a thickness of 1 to 2 mm when mounting a Socket on it.

P7LF

Terminal Arrangement/ Internal Connections Dimensions **Mounting Hole Dimensions** P7LF-06 2-M3.5×6 (coil side) 8±0.05 Ó ⊕ ° 51.5 max ╤┝━╿━┼╴ 0 0 Two, 4.5 dia. or M4 mounting hole 00 00 5 4-M4×8 (contact side) 9.2±0.05 -25 5 40±0. 40±0.1 -46 max. 2 **(4) (6) (8)** -55.5 max. 4 (Top View) aataa



Note: 1. For the PF083A and PF113A, the Socket key slot is on the top. (Applicable model: MK)

2. The structure of
-E models provides finger protection. Round terminals cannot be used. Use forked crimp terminals.







Terminal Cover

(Unit: mm)







Note: When mounting, pay due attention to the direction of the key groove of applicable Relays.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE

PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warrantv.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

2019.10

In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation Industrial Automation Company

http://www.ia.omron.com/

■ Track-mounted Screwless Clamp Terminal Sockets

Item	Nodel				
	4-pole	2-pole			
Socket	PYF14S	PYF08S			
Clip & release lever	PYCM-14S	PYCM-08S			
Nameplate	R99-11 nameplate for MY				
Socket bridge	PYDM-14SR, PYDM-14SB PYDM-08SR, PYDM-08SB				

Note: For complete specifications, see the datasheet at Omron's Knowledge Center on our website: www.knowledge.omron.com.

Sockets

Poles		Back-connecting so	Back-connecting socket			
	socket (DIN-track/screw	Solder terminals		PCB terminals		
	mounting)	Without clip	With clip			
2	PYF08A-E	PY08	PY08-Y1	PY08-02		
	PYF08A-N					
4	PYF14A-E	PY14	PY14-Y1	PY14-02		
	PYF14A-N					

■ Socket Specifications

Item	Pole	Model	Carry current	Dielectric withstand voltage	Insulation resistance (see note 2)	
Screwless clamp	2	PYF08S	10 A	2,000 VAC, 1 min	Less than 1,000 M Ω	
terminal socket	4	PYF14S	5 A			
Track-mounted socket	2	PYF08A-E	7 A	2,000 VAC, 1 min	1,000 MΩ min.	
		PYF08A-N (see note 3)	7 A (see note 4)			
	4	PYF14A-E	5 A			
		PYF14A-N (see note 3)	5 A (see note 4)			
Back-connecting	2	PY08(-Y1)	7 A	1,500 VAC, 1 min	100 MΩ min.	
socket		PY08-02				
	4	PY14(-Y1)	3 A			
		PY14-02				

Note: 1. The values given above are initial values.

2. The values for insulation resistance were measured at 500 V at the same place as the dielectric strength.

3. The maximum operating ambient temperature for the PYF08A-N and PYF14A-N is 55°C.

- 4. When using the PYF08A-N or PYF14A-N at an operating ambient temperature exceeding 40°C, reduce the current to 60%.
- 5. The MY2(S) can be used at 70°C with a carry current of 7 A.

Socket Hold-down Clip Pairing

Relay type	Poles		(DIN_track/scrow_mounting)		Back-connecting socket				
		(DIN-track/sc			Solder terminals		IIS		
		Socket	Clip	Socket	Clip	Socket	Clip		
Without 2-pole test button	2	PYF08A-E	PYC-A1	PY08	PYC-P	PY08-02	PYC-P		
		PYF08A-N			PYC-P2		PYC-P2		
Without 2-pole	4	PYF14A-E	PYC-A1	PY14	PYC-P	PY14-02	PYC-P		
test button		PYF14A-N			PYC-P2		PYC-P2		
2-pole test	2	PYF08A-E	PYC-E1	PY08	PYC-P2	PY08-02	PYC-P2		
button		PYF08A-N							

Mounting Plates for Sockets

Socket model	For 1 socket	For 18 sockets	For 36 sockets
PY08, PY14	PYP-1	PYP-18	PYP-36

Note: PYP-18 and PYP-36 can be cut into any desired length in accordance with the number of Sockets.

■ DIN Rail Track and Accessories

Description	Model
Mounting rail (length = 500 mm)	PFP-50N
Mounting rail (length = 1,000 mm)	PFP-100N, PFP-100N2
End Plate	PFP-M
Spacer	PFP-S

■ Dimensions

Unit: mm (inch)





Note: Use a panel with plate thickness of 1 to 2 mm for mounting the Sockets.



Highly Reliable, 4-pole Miniature Relay Ideal for Sequence Control

- Card lift-off employed for greater life and stable quality.
- Long endurance and stable quality are assured by card lift-off system.
- Mounting interchangeability with MY-series Relays.
- Operation indicator mechanism incorporated for at-a-glance monitoring of ON/OFF operation. In addition, a built-in operation indicator model is also included in this Relay Series.



Ordering Information

Classification	Plug-in terminals/Solder terminals	PCB terminals
Standard model	G2A-432A	G2A-4321P
Arc barrier equipped model	G2A-432AY	
Built-in diode model	G2A-432A-D	G2A-4321P-D
Built-in operation indicator model	G2A-432A-N	
Built-in operation indicator and diode model	G2A-432A-N1	

Note: 1. When placing your order, add the coil voltage rating listed in the specifications to the model number as shown below. Example: G2A-432A 100/110 VAC

- Rated coil voltage
- 2. Built-in diode model and the operating coil of the G2A-432A-N1 are available only with DC ratings.
- 3. The Latching Relay (G2AK) and Fully sealed Relay (G2A-434A) developed based on the G2A are also available in this series.

Model Number Legend



- 1. Number of Poles and Contact Form 4: 4PDT
- 2. Contact Type
- 3: Crossbar bifurcated
- 3. Enclosure Construction
 - 2: Casing
- 4. Terminal Shape
 - A: Plug-in
 - 1P: PCB

Note: 1. The coil of the G2A-432A-N1 or a built-in diode model operates with DC only.

2. The G2A Series include the G2A-434A Power Relay and G2AK Latching Relay. Refer to G2A-434 and G2AK for details.

5. Safety Breaking Mechanism

- None: No
- Y: Arc barrier

6. Special Element

- None: Standard
- D: Built-in diode
- N: Built-in operation indicator
- N1: Built-in operation indicator and diode

Relays Other than Standard Models

Arc barrier equipped	Built-in diode	Built-in operation indicator
G2A-432AY	G2A-432A-D	G2A-432A-N
The arc barrier equipped model is a relay designed to prevent arc short-circuiting between phases and can be used in a circuit which has potential difference between phases. The switching power of such a circuit with potential differ- ence must be limited to less than 1/2 the rated load when using this Relay.	The built-in diode model is a relay which incorporates a diode for ab- sorption of the reverse voltage that may be generated when the coil is de-energized. Because the release time of this model is long- er than the standard model, pay adequate attention to this point in designing a circuit. Also, pay at- tention to the + polarity of the coil. The reverse-breakdown voltage of the diode is 1,000 V.	tion indicator to the conventional operation indication mechanism and facilitates operation monitor-

Accessories

Sockets

Track mounting	Front-connecting					
Screw terminals	Socket	Solder terminals		Wire-wra	PCB	
		Without Hold- down Clip	With Hold-down Clip	Without Hold- down Clip	With Hold-down Clip	terminals
PYF14A	PYF14(-E), PYF14A- TU, PYF14T	PY14, PY14-3 (see note)	PY14-Y2	PY14QN(2)	PY14QN(2)-Y2	PY14-0, PY14-02

Note: With monitor terminal.

Relay Hold-down Clips

For Front-connecting Socket	PYC-A2
For Back-connecting Socket	PYC-3/PYC-5
For Socket Mounting Plate	PYC-2

Socket Mounting Plates

For one Socket	PYP-1
For 18 Sockets	PYP-18
For 36 Sockets	PYP-38

Specifications

■ Coil Ratings

The rated currents for some of the built-in operation indicator models differ from the values given in this table. Refer to note 5 below.

Rated voltage	Rateo	Rated current			ctance (ref. lue)	Must Must Max. operate release voltage		Power consumption	
	50 Hz	60 Hz		Armature OFF	Armature ON	% of rated voltage			
6 VAC	295 mA	233 mA	8.9 Ω	0.048 H	0.065 H	80 % max.	30 % min.	110 %	Approx. 1.4 VA
12 VAC	148 mA	117 mA	34 Ω	0.166 H	0.257 H				
24 VAC	73 mA	58 mA	136 Ω	0.691 H	1.04 H				
50 VAC	35 mA	28 mA	530 Ω	3.08 H	4.53 H				
100/ 110 VAC	17.7/ 21.4 mA	14/ 16.8 mA	2,200 Ω	12.42/ 12.38 H	18/16.4 H				
200/ 220 VAC	8.9/ 10.8 mA	7/8.4 mA	8,800 Ω	42.2/ 41.8 H	72/65.5 H				
6 VDC	176 mA		34 Ω	0.14 H	0.26 H		10 % min.	110 %	Approx. 1.1 W
12 VDC	88 mA		136 Ω	0.6 H	1.0 H				
24 VDC	45 mA		530 Ω	2.7 H	4.6 H	1			
48 VDC	22 mA		2,200 Ω	11 H	19 H	1			
100 VDC	11.4 mA		8,800 Ω	43 H	73 H				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23° C with tolerances of +15%/-20% for AC rated current and $\pm 15\%$ for DC coil resistance.

 $\label{eq:constraint} \textbf{2. The AC coil resistance and coil inductance values are for reference only.}$

3. Performance characteristic data is measured at a coil temperature of 23°C.

4. The maximum voltage is one that is applicable instantaneously to the Relay coil at an ambient temperature of 23°C and not continuously.

5. For built-in operation indicator models rated at 6, 12, and 24 VDC, add an LED current of approx. 5 mA to the rated currents.

■ Contact Ratings

Load	Resistive load (cos	Inductive load ($\cos\phi = 0.4$) (L/R = 7 ms)
Contact type	Crossbar bifurcated	
Contact material	Movable: AgAu-clad AgPd Fixed: AgPd	
Rated load		0.2 A at 110 VAC 0.3 A at 24 VDC
Rated carry current	3 A	
Max. switching power	250 VAC, 125 VDC	

■ Characteristics

Classification		r barrier equipped/Built-in operation dicator models (G2A-□-N)	Built-in diode/Built-in operation indicator models (G2A-□-N1)				
Contact resistance (see note 2)	100 mΩ max.						
Operate time (see note 3)	15 ms max.						
Release time (see note 3)	15 ms max.		30 ms max.				
Max. operating frequency		8,000 operations/hour 00 operations/hour (under rated load)					
Insulation resistance (see note 4)	100 M Ω min.	(at 500 VDC)					
Dielectric strength		1,500 VAC, 50/60 Hz for 1 min between coil and contacts and contacts of different polarities (700 VAC be- tween contacts of same polarity)					
Vibration resistance		0 to 55 to 10 Hz, 0.75 mm single ampl 0 to 55 to 10 Hz, 0.5 mm single amplit					
Shock resistance	Destruction: 1 Malfunction: 1	,					
Error rate (level P) (Reference value) (see note 6)	1 mA at 100 n	nVDC					
Endurance	Mechanical:	100,000,000 operations min. (at operations min.)	rating frequency of 18,000 operations/hour)				
	Electrical:	5,000,000 operations min. (under rat 1,800 operations/hour) (see note 5)	ed load and at operating frequency of				
Ambient temperature	Operating:-10	0°C to 40°C (with no icing or condensat	tion)				
Ambient humidity	Operating:5%	to 85%					
Weight	Approx. 38 g						

Note: 1. The data shown above are initial values.

2. The contact resistance was measured with 0.1 A at 5 VDC using the voltage drop method.

3. The operate or release time was measured with the rated voltage imposed with any contact bounce ignored at an ambient temperature of 23°C.

4. The insulation resistance was measured with a 500-VDC megger applied to the same places as those used for checking the dielectric strength.

5. The electrical endurance was measured at an ambient temperature of 23 $^{\circ}\text{C}.$

6. This value was measured at a switching frequency of 60 operations per minute.

Engineering Data

Maximum Switching Power





G2A AC (60 Hz)







Endurance

10,000

5,000

1,000

500

100

50

10

0

Endurance (x10³ operations)

G2A 110 VAC (50 Hz)







Switching current (A)

2

-VD'C

110-VAC

++

110-VAC

inductive load $\cos\phi = 0.4$

resistive load

resistive load

inductive load L/R = 7 ms

24-VDC



Number of samples = 5

Measurement conditions: Impose a shock of 100 m/s² in the $\pm X$, $\pm Y$, and $\pm Z$ directions three times each with the Relay energized and not energized to check the shock values that cause the Relay to malfunction.

Contact Reliability (JIS C 4530 Allen-Bradley Test Circuit)

Contact Reliability (Improved Allen-Bradley Test Circuit) Contact load: 1 mA at 5 VDC (resistive load)

Failure criterion contact resistance: 100 Ω



Coil Self-Ioad Life Curve

(Unit: mA)

Model	Specifications	No. of Relays				
		1	2	3	5	10
G2A-432A	100 VAC, 60 Hz	14	28	42	70	140
	24 VDC	45	90	135	225	450



Relay Mounting Adjacent Distance vs. Coil Temperature Rise G2A-432A 24 VDC



Connecting Sockets

Front-connecting Socket	Back-connecting Socket							
DIN track/screw mounting	Solder terminals		Wire-wra	Wire-wrap terminals		erminals		
PYF14A(-E) PYF14A-TU PYF14T	PY14 PY14-Y3	PY14-Y2 (with Relay Hold-down Clip)	PY14QN(2)	PY14QN(2)-Y2 (with Relay Hold-down Clip)	PY14-0	PY14-02		
	Babagan a					*		

Note: 1. The PYF A-TU is a high-humidity relay with nickel-plated rustproof terminal screws that are the same as the PYF A in size.

- 2. The PYF14T is slightly different from the PYF14A(-TU) in shape and size.
- 3. The PYF□A-E is a finger-protection model, for which round terminals are not available. Use fork-shaped terminals or equivalent ones instead.

PY14-3 Back-connecting Socket

(with check terminals for operation monitoring)





Relay Mounting Height with Socket With Front-connecting Socket





Relay Hold-down Clips



 For Front-connecting Socket
 For Back-connecting Socket
 For Socket mounting plate

 PYC-A2
 PYC-3
 PYC-5
 PYC-2

Note: When using a Relay Hold-down Clip for the built-in operation indicator model, use of the PYC-A2 or PYC-5, which allows easy viewing of the indicator, is recommended.

Dimensions

Note: 1. All units are in millimeters unless otherwise indicated.

2. Dimensional tolerances are ± 0.1 mm.

Solder Terminal Models







PCB Terminal Models



Mounting Holes on PCB (Bottom View)



Terminal Arrangement/Internal Connections (Bottom View)

Standard Models



Contact Models $\begin{bmatrix} \frac{1}{2} & \frac{3}{4} & \frac{4}{5} \\ \frac{5}{4} & \frac{7}{4} & \frac{8}{5} \end{bmatrix}$

13

Make-before-break



Arc Barrier Equipped Models





Built-in Operation Indicator Models

Color of operation indicator AC model: Red DC model: Green





Note: Do not reverse the polarity of the coil of DC Relays that have a built-in indicator or diode.

Socket Mounting Plates (t = 1.6 mm)

Use any of these plates when mounting two or more Sockets side-by-side



Safety Precautions

Refer to Safety Precautions for All Relays.

A DC coil model with a built-in indicator or built-in diode has coil polarity. Be sure to wire the terminals correctly, otherwise the diode may be broken or the operating indicator may not be lit. Furthermore, as a result of the short-circuiting of the built-in diode, the devices in the circuit may be damaged.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- · Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- · Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

2010.8

In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation Industrial Automation Company

http://www.ia.omron.com/

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Omron: <u>PYF14T</u> <u>PY14-0</u> <u>PYC-3</u>

Miniature Power Relays

MY(S) Versatile plug-in Relay

- Reduces wiring work by 60% when combined with the PYF-PU Push-In Plus Socket (according to actual OMRON measurements).
- 10 A (DPDT) and 5 A (4PDT)
- Gold-clad contacts (MY4(S))
- Test button (lockable)
- Wide portfolio includes hermetically sealed and latching types
- 2.6 mm wide pins offer higher conductivity and less temperature increase

Refer to the Common Relay Precautions and Safety Precautions on page 34.

Model Number Structure



The compliant standards depend on the model. For details, refer to information provided for individual models.

Coil Polarity (DC case) *	Туре	Contact form	Plug-Ir	i socket/solder termina		Flange mounting
			With LED indicator	With LED Indicator and Lockable test button	Without LED Indicator	
Туре 1	Standard model	DPDT	MY2N(S)	MY2IN(S)	MY2(S)	MY2F
		DPDT (Bifurcated)	MY2ZN			
$ \bigcirc \qquad \qquad$		4PDT	MY4N(S)	MY4IN(S)	MY4(S)	MY4F
A1 L A2		4PDT (Bifurcated)	MY4ZN(S)	MY4ZIN(S)	MY4Z(S)	MY4ZF
	With Built-in diode	DPDT	MY2N-D2(S)	MY2IN-D2(S)		
	(DC only)	DPDT (Bifurcated)	MY2ZN-D2			
		4PDT	MY4N-D2(S)	MY4IN-D2(S)		
		4PDT (Bifurcated)	MY4ZN-D2(S)	MY4ZIN-D2(S)		
	With Built-in CR	DPDT	MY2N-CR(S)	MY2IN-CR(S)		
	(AC only)	4PDT	MY4N-CR(S)	MY4IN-CR(S)		
		4PDT (Bifurcated)	MY4ZN-CR(S)	MY4ZIN-CR(S)		
	High reliability contacts	4PDT (Crossbar Bifurcated)			MY4Z-CBG	
	Plastic Sealed	4PDT	MYQ4N			
		4PDT (Bifurcated)			MYQ4Z	
	Lactching (coil latching)	DPDT			MY2K-US	
	Hermetic	4PDT			MY4H	
		4PDT (Bifurcated)			MY4ZH	
Type 2	Standard model	DPDT	MY2N1(S)	MY2IN1(S)		
		4PDT	MY4N1(S)	MY4IN1(S)		
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ 13 \end{array} \\ 13 \end{array} \\ \begin{array}{c} 14 \\ 14 \end{array} \\ \begin{array}{c} 14 \\ 12 \end{array} \end{array}$		4PDT (Bifurcated)	MY4ZN1(S)	MY4ZIN1(S)		
A1 L A2	With Built-in diode	DPDT	MY2N1-D2(S)	MY2IN1-D2(S)		
	(DC only)	4PDT	MY4N1-D2(S)	MY4IN1-D2(S)		
		4PDT (Bifurcated)	MY4ZN1-D2(S)	MY4ZIN1-D2(S)		

* In case of AC coil type relay, please select them from "Type 1" of Coil Polality.

Refer to *Connection Socket and Mounting Bracket Selection Table on page 25* in *Options* for information on the possible combinations of Models with Plug-in Terminals and Sockets.

🔊 🚯 👜 LR C E

MY(S)

Contents

Model Number Structure 1	I
Specifications	
Coil Ratings 2)
MY2(S)/MY4(S)/MY4Z(S)	3
Engineering Data 6	3
Detailed Information on Models Certified for Safety Standards, MY2(S)/MY4(S)/MY4Z(S) 8	3
Models Other Than MY(S) Models	
MY2ZN)
MY□F11	I
Detailed Information on Models Certified for Safety Standards, MY2ZN and MYDF 14	ŀ
MY4Z-CBG	5
MYQ417	7
MY2K 19	J
MY4(Z)H	l
Socket for MY 23	3
Options25	5
Safety Precautions	ŀ

Specifications

Coil Ratings MY(S)

R	ated voltage	Rated current		Coil resistance		ductance ice value)	Must operate voltage	Must release voltage	Max. voltage	Power consumption		
		50 Hz	60 Hz	_	Arm. OFF	Arm. ON	%	of rated volt	age	(approx.)		
	6 V	214.1 mA	183 mA	12.2 Ω	0.04 H	0.08 H						
	12 V	106.5 mA	91 mA	46 Ω	0.17 H	0.33 H				Approx. 0.9 to 1.3 VA (60 Hz)		
AC	24 V	53.8 mA	46 mA	180 Ω	0.69 H	1.30 H		30% min.				
AC	48/50 V	24.7/25.7 mA	21.1/22.0 mA	788 Ω	3.22 H	5.66 H	_	30% mm.				
	110/120 V	9.9/10.8 mA	8.4/9.2 mA	4,430 Ω	19.20 H	32.1 H						
	220/240 V	4.8/5.3 mA	4.2/4.6 mA	18,790 Ω	83.50 H	136.4 H	80% max.		110%			
	6 V	151 mA		39.8 Ω	0.17 H	0.33 H						
	12 V	75 mA		160 Ω	0.73 H	1.37 H						
DC	24 V	37.7 mA		636 Ω	3.20 H	5.72 H	10%	10% min.		0.9 W		
	48 V	18.8 mA		2,560 Ω	10.60 H	21.0 H						
	100/110 V	9.0/9.9 mA		11,100 Ω	45.60 H	86.2 H						

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for rated currents and ±15% for DC coil

resistance.
 Performance characteristic data are measured at a coil temperature of 23°C.
 AC coil resistance and impedance are provided as reference values (at 60 Hz).
 Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.

MY2ZN, MY□F, MY4(Z)H

	Item	Rated curr	ent (mA)	Coil resistance	Coil induc	ctance (H)	Must-	Must-	Maximum	Power consumption			
Rate volta	d age (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	(VA, W)			
	12	106.5	91	46	0.17	0.33							
	24	53.8	46	180	0.69	1.3							
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2	Approx	Approx. 0.9 to 1.3 VA			
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		50 /8 mm.	576 mm.	(60 Hz	(60 Hz)		
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1	110% of rated	110% of rated	110% of rated	110% of rated	110% of rated	
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00 /8 max.		voltage				
	12	75		160	0.73	1.37	-						
DC	24	36.	9	650	3.2	5.72		10% min.*²		Approx. 0.9			
50	48	18.	5	2,600	10.6	21.0				Appi0x. 0.9			
	100/110	9.1/	10	11,000	45.6	86.2							

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and ±15% for the DC coil resistance.
2. The AC coil resistance and inductance values are reference values only (at 60 Hz).
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.
*1. There is variation between products, but actual values are 80% max. To ensure operation, apply at least 80% of the rated value
*2. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value

specified value. Note: Refer to page 19 for the coil specifications of the MY2K.

Miniature Power Relays: MY2(S)/MY4(S)/MY4Z(S)

Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

🔊 🚯 👜 LR C E

Specifications

Contact Ratings

	DPDT		4PDT		4PDT (bifurcated)		
ltem	Resistive load (cos φ = 1)	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load (cos φ = 1)	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load (cos φ = 1)	Inductive load (cos φ = 0.4, L/R = 7 ms)	
Rated load	5A, 250 VAC 5A, 30 VDC	2A, 250 VAC 2 A, 30 VDC	3 A, 250 VAC 3 A, 30 VDC	0.8 A, 250 VAC 1.5 A, 30 VDC	3 A, 250 VAC 3 A, 30 VDC	0.8 A, 250 VAC 1.5 A, 30 VDC	
Carry current	10 A (see note)	•	5 A (see note)		•		
Max. switching voltage	250 VAC 125 VDC						
Max. switching current	10 A		5 A				
Contact materials	Ag		Au cladding + Ag alloy				
Failure rate (reference value)	5 VDC, 1 mA		1 VDC, 1 mA 1 VDC, 100 μA				

Note: Don't exceed the carry current of a Socket in use. Please see page 23.

Characteristics

Item	All Relays
Contact resistance	100 mΩ max. (50 mΩ: 4PDT bifurcated)
Operate time	20 ms max.
Release time	20 ms max.
Max. operating frequency	Mechanical:18,000 operations/hr Electrical:1,800 operations/hr (under rated load)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,000 VAC, 50/60 Hz for 1.0 min (1,000 VAC between contacts of same polarity)
Vibration resistance	Destruction:10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude) Malfunction:10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)
Shock resistance	Destruction:1,000 m/s ² Malfunction:200 m/s ²
Endurance	See the following table.
Ambient temperature	Operating: -55 to 70°C (with no icing)
Ambient humidity	Operating: 5 to 85% RH
Weight	Approx. 35 g
Note: The values given above are initi	

Note: The values given above are initial values.

Endurance Characteristics

Contact form	Mechanical life (at 18,000 operations/hr)	Electrical life (at 1,800 operations/hr under rated load)	
DPDT	AC:50,000,000 operations min.	500,000 operations min.	
4PDT	DC:100,000,000 operations min.	200,000 operations min.	
4PDT (bifurcated)	20,000,000 operations min.	100,000 operations min.	

MY(S) Dimensions



Note: For the DC models, check the coil polarity when wiring and wire all connections correctly.

MY4DD(S) series



2.6 000 Fourteen, 1.2-dia. × 2.2 oval holes 6.3 ++ ł 0.5 28 max. ╈ ╘ đ 8.05 -36 max. 6.4 14.2 21.5 max.

Note: The picture is lockable test button type.



MY4(Z)IN1(S) (DC Models)





MY4(Z)IN1-D2(S) (DC Models Only) 3 4 20







Note: For the DC models, check the coil polarity when wiring and wire all connections correctly.

MY(S) Engineering Data MY2(S)/ MY4(S)/MY4Z(S)



Common Specifications for MY2(S)/MY4(S)/MY4Z(S) **Malfunctioning Shock**



N = 20

Measurement: Shock was applied 3 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction. Criteria: Non-energized: 200 m/s 2 , Energized: 200 m/s 2 Shock direction ۲ 8

Engineering Data MY(S) (MY2ZN, MY F)

Ambient Temperature vs.

Must-operate and Must-release Voltage MY2 AC Models

100 Number of Relays: 10 Must-operate voltage (%) Must-(average value) release voltage voltage 80 operate/must-release 60 40 Must-20 0L -60 -30 30 60 90 Ambient temperature (°C) MY2 DC Models



MY4 AC Models



MY4 DC Models



Ambient Temperature vs. Coil Temperature Rise

n rated voltage is applied

ī

(E-class insulation, 120° C)

5 A c . ntact c

Operating temperature limit value

MY2 AC Models, 50 Hz

120

110

100

90

80

70

60 5 A cc ontact cu

50

40

30

20 10

120

110

100

90

80

70

60

50

40

30

20

10

0

ŝ

rise

nperature

Ter

No co tact curr

20

ontact

No contact cu

4 cir

ô

rise

Temperature







MY4 DC Models



Models with built-in diodes The diode absorbs surge from the coil. This type is best suited for applications with semiconductor circuits. With Diode Without Diode

60

Ambient temperature (°C)

80

remit

With Diode



ON ÓFF 40 ⊕ -0 Δ To digital 24 VDC memory A'

The release time will increase, but the 20-ms specification for standard models is satisfied. Diode properties:The diode has a reversed dielectric strength of 1,000 V. Forward current: 1 A

Models with Built-in CR Circuits With CR





Α

MY(S)

Detailed Information on Models Certified for Safety Standards, MY2(S)/MY4(S)/MY4Z(S)

VDE-certified Models (No. 112467UG, EN61810-1)

Model	Coil ratings	Contact form	Contact ratings	File No.	Certified number of operations
MY	$ \begin{array}{c c} 6, 12, 24, 48/50, 100/\\ 110, 110/120, 200/\\ 220, and 220/240 \ VAC\\ 6, 12, 24, 48, 100/\\ 110, and 125 \ VDC \end{array} \begin{array}{c} DPDT & \begin{array}{c} 10 \ A, 250 \ VAC \ (\cos \varphi = 1) \\ 10 \ A, 30 \ VDC \ (L/R = 0 \ ms) \end{array} \\ \begin{array}{c} 5 \ A, 250 \ VAC \ (\cos \varphi = 1) \\ 5 \ A, 30 \ VDC \ (L/R = 0 \ ms) \end{array} \end{array} $	DPDT		6692 (VDE0435)	MY2: 10,000 operations
			,	MY4: 100,000 operations MY4Z: 50,000 operations (AC)	

UL508-certified Models (File No. 41515)

Model	Coil ratings	Contact form	Contact ratings	File No.	Certified number of operations
		10A, 250 VAC (General Use)10A, 30 VDC (General Use)	10A, 250 VAC (General Use)	-	
			10A, 30 VDC (General Use)		
			7A, 240 VAC (General Use)		
			7A, 24 VDC (Resistive)	E41515 (UL508)	6.000
			5A, 240 VAC (General Use)		6,000
		DPDT	5A, 250 VAC (Resistive)	-	
		DFD1	5A, 30 VDC (Resistive)		
			3A, 265 VAC (Resistive)		
			1/6HP, 250 VAC		
	6 to 240 VAC		1/8HP, 265 VAC	/8HP. 265 VAC	1,000
MY	6 to 125 VDC		1/10HP, 120 VAC B300 Pilot Duty (Same polarity)	E41515 (UL508)	
					6,000
			5A, 28 VDC (General Use) (Same polarity)		6,000
			5A, 240 VAC (General Use) (Same polarity) 5A, 30 VDC (Resistive) (Same polarity)		
		4PDT	5A, 250 VAC (Resistive) (Same polarity)		
		4601	0.2A, 120 VDC (Resistive) (Same polarity)		
			1/6HP, 250 VAC (Same polarity)		1,000
			1/10HP, 120 VAC (Same polarity)		1,000
			B300 Pilot Duty (Same polarity)		6,000

CSA 22.2 No. 14-certified Models (File No. LR31928)

Model	Coil ratings	Contact form	Contact ratings	File No.	Certified number of operations
			7A, 240 VAC (General Use)	File No. LR31928 (CSA C22.2) (No. 14)	
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)		
			5A, 250 VAC (Resistive)		8,000
		DPDT	5A, 30 VDC (Resistive)		
		DFDT	3A, 265 VAC (Resistive)	LR31928 (CSA C22.2) (No. 14) 6,00	
			1/6HP, 250 VAC		1,000
			1/8HP, 265 VAC		
MY	6 to 240 VAC		1/10HP, 120 VAC		
	6 to 125 VDC	VDC	B300 Pilot Duty (Same polarity)	(No. 14)	6,000
			5A, 240 VAC (General Use) (Same polarity)		
			5A, 28 VDC (General Use) (Same polarity)		
			5A, 250 VAC (Resistive) (Same polarity)		6,000
		4PDT	5A, 30 VDC (Resistive) (Same polarity)		
		4601	0.2A, 120 VDC (Resistive) (Same polarity)		
			1/6HP, 250 VAC (Same polarity)		1,000
			1/10HP, 120 VAC (Same polarity)	1	1,000
			B300 Pilot Duty (Same polarity)		6,000

LR-certified Models (File No. 98/10014)

Model	Coil ratings	Contact form	Contact ratings	File No.	Certified number of operations
MY	6 to 240 VAC	DPDT	10 A, 250 VAC (resistive) 2 A, 250 VAC (PF0.4) 10 A, 30 VDC (resistive) 2 A, 30 VDC (L/R = 7 ms)	98/10014 MY2: 50,000 operations	
	6 to 125 VDC	4PDT	5 A, 250 VAC (resistive) 0.8 A, 250 VAC (PF0.4) 5 A, 30 VDC (resistive) 1.5 A, 30 VDC (L/R = 7 ms)	90/10014	MY4: 50,000 operations

Miniature Power Relays: MY2ZN



Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

-55 to 60° C*2

*1. With no icing or condensation.
*2. This limitation is due to the diode junction temperature and elements used.

Standard

models

-55 to 70° C

5% to 85%

Туре

Item Ambient

operating

humidity

temperature*1 Ambient operating

Model with built-in operation indicator, diode, or CR circuit

Specifications

Contact Ratings

Load Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	
Rated load	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC	
Rated carry current	5 A		
Maximum contact voltage	250 VAC, 125 VDC		
Maximum contact current	5 A		
Contact form	DPDT (Bifurcated)		
Contact materials	Au plating + Ag		

Item		MY2ZN series
Contact resistance*1		50 mΩ max.
Operation ti	me ^{‡2}	20 ms max.
Release tim	e*2	20 ms max.
Maximum	Mechanical	18,000 operations/h
operating frequency	Rated load	1,800 operations/h
Insulation re	esistance ^{*3}	100 MΩ min.
	Between coil and contacts	
Dielectric strength	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min.
j	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Shock	Destruction	1,000 m/s ²
resistance	Malfunction	200 m/s ²
Endurance	Mechanical	50,000,000 operations min. (operating frequency: 18,000 operations/h)
Linuurance	Electrical*4	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)

Item	MY2ZN	1
Failure rate P value (reference value)*5	$100\mu\text{A}$ at 1 VDC	*1 *2
Weight	Approx. 35 g	*3 *4

Note: These are initial values.

Note: These are initial values.
*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method.
*2. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. Ambient temperature condition: 23°C
*5. This value was measured at a switching frequency of 120 operations per minute.

MY(S) Dimensions



Flange-mounting Relays: MY



Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

Specifications

Contact Ratings

Contact form	DPDT		4PDT, 4PDT (Bifurcated)	
Load Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)
Rated load	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC
Rated carry current	5 A		3 A	
Maximum contact voltage	250 VAC, 125 VDC			
Maximum contact current	Maximum contact current 5 A		3 A	
Contact form	orm DPDT		4PDT, 4PDT (Bifurcated)	
Contact materials	ontact materials Ag		Au plating + Ag	

Type Item	MY□F
Ambient operating temperature*	–55 to 70° C
Ambient operating humidity	5% to 85%

* With no icing or condensation.

Characteristics

Item	Contact form	DPDT	4PDT, 4PDT (Bifurcated)	
Contact resistance*1		50 mΩ max.		
Operation time*2		20 ms max.		
Release time*2		20 ms max.		
Maximum	Mechanical	18,000 operations/h		
operating frequency	Rated load	1,800 operations/h		
Insulation res	istance ^{*3}	100 MΩ min.		
	Between coil and contacts			
Dielectric strength	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min.		
g	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.		
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)		
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single (1.0-mm double amplitude)	amplitude	
Shock	Destruction	1,000 m/s ²		
resistance	Malfunction	200 m/s ²		
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)		
Lindurance	Electrical ^{#4}	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)200,000 operations min. (rated load, switching frequency: 1,800 operations/h)		

Item Contact form	DPDT	4PDT, 4PDT (Bifurcated)
Failure rate P value (reference value)	1 mA at 5 VDC 1 mA at 1 VDC	
Weight	Approx. 35 g	

Note: These are initial values.
*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
*2. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. Ambient temperature condition: 23° C
*5. This value was measured at a switching frequency of 120 operations per minute.

MY(S) Dimensions

Flange mounting MY□F



Engineering Data MY



Common Specifications for MY



N = 20

Measurement: Shock was applied 3 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction.

Criteria: Non-energized: 200 m/s 2 , Energized: 200 m/s 2

Shock direction



MY(S)

Detailed Information on Models Certified for Safety Standards, MY2ZN and MYDF

- The standard models are certified for UL and CSA standards.
 The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

TÜV-certified Models (File No. R50030059)

			•	5
Model	Coil ratings	Contact form	Contact ratings	Certified number of operations
	6 to 125	DPDT	5 A, 250 VAC (cos ϕ = 1.0)	
MY□	VDC 6 to 240 VDC	4PDT	3 A, 120 VAC ($\cos \phi = 1.0$) 0.8 A, 120 VAC ($\cos \phi = 0.4$)	100,000 operations

UL-certified Models (File No. E41515)

Model	Coil ratings	Contact form	Contact ratings	Certified number of operations
	6 to 240 VAC 6 to 125 VDC	DPDT	7A, 240 VAC (General Use)	6,000
			7A, 24 VDC (Resistive)	
			5A, 240 VAC (General Use)	
			5A, 250 VAC (Resistive)	
			5A, 30 VDC (Resistive)	
			3A, 265 VAC (Resistive)	
			1/6HP, 250 VAC	1,000
			1/8HP, 265 VAC	
			1/10HP, 120 VAC	
			B300 Pilot Duty	6,000
MY□		4PDT	5A, 28 VDC (General Use) (Same polarity)	6,000
			5A, 240 VAC (General Use) (Same polarity)	
			5A, 30 VDC (Resistive) (Same polarity)	
			5A, 250 VAC (Resistive) (Same polarity)	
			0.2A, 120 VDC (Resistive) (Same polarity)	
			1/6HP, 250 VAC (Same polarity)	1,000
			1/10HP, 120 VAC (Same polarity)	1,000
			B300 Pilot Duty (Same polarity)	6,000

CSA-certified Models (File No. LR31928)

Model	Coil ratings	Contact form	Contact ratings	Certified number of operations
MY	6 to 240 VAC 6 to 125 VDC	DPDT	7A, 240 VAC (Resistive)	6,000
			7A, 24 VDC (Resistive)	
			5A, 240 VAC (General Use)	
			5A, 250 VAC (Resistive)	
			5A, 30 VDC (Resistive)	
			1/6HP, 250 VAC	1,000
			1/10HP, 120 VAC	
		4PDT	7A, 240 VAC (General Use) (Same polarity)	6,000
			7A, 24 VDC (Resistive) (Same polarity)	
			5A, 240 VAC (General Use) (Same polarity)	
			5A, 30 VDC (Resistive)	
			5A, 250 VAC (Resistive) (Same polarity)	
			0.2A, 120 VDC (Resistive)	
			1/6HP, 250 VAC	1,000
			1/10HP, 120 VAC	

When ordering models that are certified for Lloyd's Register (LR) Standards, be sure to specify "LR-certified Model" with your order.

LR-certified Models (File No. 90/10270)

Model	Coil ratings	Contact form	Contact ratings
MY□	6 to 240 VAC 6 to 125 VDC	DPDT	2 A, 30 VDC inductive load 2 A, 200 VAC inductive load
		4PDT	1.5 A, 30 VDC inductive load 0.8 A, 200 VAC inductive load 1.5 A, 115 VAC inductive load
Miniature Power Relays: MY4Z-CBG

Specifications

Contact Ratings

Load Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)			
Rated load	1 A at 220 VAC 0.3 A at 220 VAC 1 A at 24 VDC 0.5 A at 24 VDC				
Rated carry current	1 A				
Maximum contact voltage	250 VAC, 125 VDC				
Maximum contact current	1 A				
Contact form	4PDT (Crossbar bifurcated)				
Contact materials	Au cladding + AgPd				

Characteristics

Contact resis	stance*1	100 mΩ max.				
Operation tin	1e*2	20 ms max.				
Release time	\$ 2	20 ms max.				
Maximum	Mechanical	18,000 operations/h				
operating frequency	Electrical	1,800 operations/h				
Insulation res	sistance*3	100 MΩ				
Between coil and contacts Dielectric Between contacts		2,000 VAC at 50/60 Hz for 1 min.				
strength	of different polarity					
	Between contacts of the same polarity	700 VAC at 50/60 Hz for 1 min.				
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)				
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)				
Shock	Destruction	1,000 m/s ²				
resistance	Malfunction	200 m/s ²				
Endurance	Mechanical	5,000,000 operations min. (operating frequency: 18,000 operations/hr)				
Electrical*4		50,000 operations min. (switching frequency: 1,800 operations/h) at rated load				
Failure rate P value	ue (reference value)*5	100 μA at 1 VDC				
Ambient operating temperature		-25 to 70°C (with no icing or condensation)				
Ambient ope	rating humidity	5% to 85%				
Weight		Approx. 35 g				
Note: The abo	ove values are init	ial values				

Note: The above values are initial values.
 *1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
 *2. Measurement conditions: With rated operating power applied, not including

*2. Measurement conditions: With rated operating power applied, not including contact bounce. Ambient temperature condition: 23° C
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. Ambient temperature condition: 23° C
*5. This value was measured at a switching frequency of 120 operations per minute

minute.

Engineering Data

Maximum Switching Capacity

MY4Z-CBG



Contact Reliability Test (Modified Allen Bradley Circuit)

Contact load: 5 VDC, 1 mA resistive load Malfunction criteria level: Contact resistance of 100 Ω



MY(S) Dimensions

MY4Z-CBG



Safety Precautions

Refer to the *Common Relay Precautions*. **Applicable Sockets** Use only combinations of OMRON Relays and Sockets.

Plastic Sealed Relays: MYQ4

Specifications

Contact Ratings

Type Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)				
Rated load	1 A at 220 VAC, 1 A at 24 VDC	0.5 A at 220 VAC, 0.5 A at 24 VDC				
Rated carry current	1 A					
Maximum contact voltage	250 VAC, 125 VDC					
Maximum contact current	1 A					
Maximum switching capacity (reference value)	220 VAC, 24 W	110 VAC, 12 W				
Failure rate P value (reference value)	Single contacts: 1 mA at 1 VDC, Bif	furcated contacts: 100 μA at 1 VDC				
Contact form	4PDT, 4PDT (Bifurcated)					
Contact materials	Au plating + Ag					
* This value was measured at a	switching frequency of 120 operation	ns per minute.				

Ambient operating temperature	-55 to 60° C*
Ambient operating humidity	5% to 85%
* With no icing or condensation.	

Characteristics

Contact resistance ^{*1}		50 mΩ max.				
Operation time*2		20 ms max.				
Release tim	e ^{‡2}	20 ms max.				
Maximum	Mechanical	18,000 operations/h				
operating frequency	Rated load	1,800 operations/h				
	Between coil and contacts	1,500 VAC at 50/60 Hz for 1 min.				
Dielectric strength	Between contacts of different polarity	1,500 VAC at 50/60 Hz for 1 min.				
j	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.	Note: The values at the left are initial values.			
Insulation resistance*3		100 MΩ min.	*1. Measurement conditions: 1 A at 5			
Vibration Destruction		10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	VDC using the voltage drop method			
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	*2. Measurement conditions: With rated operating power applied, not			
Shock Destruction		1,000 m/s ²	including contact bounce. Ambient temperature condition:			
resistance Malfunction		200 m/s ²	23° C			
Endurance	Mechanical	AC: 50,000,000 operations (5,000,000*4) min., DC: 100,000,000 operations (5,000,000*4) min. (switching frequency: 18,000 operations/h)	*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.			
Electrical ^{#5}		200,000 operations min. (100,000 operations ^{*4}) (rated load, switching frequency: 1,800 operations/h)	*4. This value is for bifurcated contacts.			
Weight		Approx. 35 g	 *5. Ambient temperature condition: 23° C 			

Engineering Data

Maximum Switching Capacity MYQ4(Z)



Endurance Curve



H₂S Gas Data MYQ4



Malfunctioning Shock MYQ4



OMRON

to malfunction. Criteria: Non-energized: 200 m/s² Energized: 200 m/s²

MY(S)

Dimensions

(Unit: mm)

Relays with Plug-in Terminals or Soldered Terminals MYQ4(Z)(N)







All AC model has conditioned accounter and diagnosis.
 For the DC models, check the coil polarity when wiring and wire all connections correctly.

Safety Precautions

- For models with built-in operation indicators, check the coil polarity when wiring and wire all connections correctly (DC operation).
- wiring and wire all connections correctly (DC operation).
 Use only combinations of OMRON Relays and Sockets.

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Latching Relays: MY2K

Specifications

Coil Rating

	Item		Set co	il		Reset c	oil				Power consumption (VA, W)					
	nem	Rated cur	rent (mA)	Coil	Rated cur	rent (mA)	Coil	Set voltage (V)	Reset voltage (V)			Maximum voltage (V)	Set coil	Reset coil		
Rated v	oltage (V)	50 Hz	60 Hz	resistance (Ω)	50 Hz	60 Hz	resistance (Ω)	(•)		voltage (v)	Set con	Reset coll				
	12	57	56	72	39	38.2	130				Approx. 0.6	Approx. 0.2				
AC	24	27.4	26.4	320	18.6	18.1	550		80% max.	110% max of		to 0.9	to 0.5			
	100	7.1	6.9	5,400	3.5	3.4	3,000	80% max.			80% max 80% max 110% max. of	110% max. of	(at 60 Hz)	(at 60 Hz)		
	12	11	10	110	5	0	235	60 % max.		rated voltage						
DC	24	5	2	470	2	5	940								Approx. 1.3	Approx. 0.6
	48	2	7	1,800	1	6	3,000									

Note: 1. The rated current for AC is the value measured with a DC ammeter in half-wave rectification.
2. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and ±15% for the DC coil resistance.
3. The AC coil resistance is a reference value only.
4. Operating characteristics were measured at a coil temperature of 23°C.
5. The maximum voltage capacity was measured at an ambient temperature of 23°C.

Contact Ratings

Load Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)				
Rated load	3 A at 220 VAC 0.8 A at 220 VAC 3 A at 24 VDC 1.5 A at 24 VDC					
Rated carry current	3 A					
Maximum contact voltage	250 VAC, 125 VDC					
Maximum contact current	3 A					
Contact form	DPDT					
Contact materials	Au plating + Ag					
Ambient operating temperature	–55 to 60° C*					
Ambient operating humidity	5% to 85%					

* With no icing or condensation.

Characteristics

stance*1	50 mΩ max.		
Time ^{*2}	AC: 30 ms max., DC: 15 ms max.		
Minimum pulse width	AC: 60 ms, DC: 30 ms		
Time ^{*2}	AC: 30 ms max., DC: 15 ms max.		
Minimum pulse width	AC: 60 ms, DC: 30 ms		
Mechanical	18,000 operations/h		
Rated load	1,800 operations/h		
sistance*3	100 MΩ		
Between coil and contacts	1,500 VAC at 50/60 Hz for 1 min.		
Between contacts of different polarity			
Between contacts of the same polarity	1.000 VAC at 50/60 Hz for 1 min.		
Between set/ reset coils	1,000 VAC at 50/00 Hz for 1 min.		
Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)		
Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)		
Destruction	1,000 m/s ²		
Malfunction	200 m/s ²		
Mechanical	100,000,000 operations min. (switching frequency: 18,000 operations/h)		
Electrical*4	200,000 operations min. (at 1,800 operations/hr, rated load)		
lue (reference value)*5	1 mA at 1 VDC		
	Approx. 30 g		
	Minimum pulse width Time* ² Minimum pulse width Mechanical Rated load sistance* ³ Between coil and contacts Between contacts of different polarity Between contacts of the same polarity Between set/ reset coils Destruction Malfunction Malfunction Mechanical		

Note: The above values are initial values. *1. Measurement conditions: 1 A at 5 VDC using the voltage drop method *2. Measurement conditions: With rated operating power applied, not including

contact bounce. *3. Measurement conditions: For 500 VDC applied to the same location as for 43. Measurement containers of the same location as for dielectric strength measurement.
 *4. Ambient temperature condition: 23° C
 *5. This value was measured at a switching frequency of 120 operations per

minute.

MY(S) Engineering Data

MY2K

Maximum Switching Capacity



MY2K 100 VAC Malfunctioning Shock



Endurance Curve

8

Energized: 200 m/s²

Measurement: Shock was applied 2

axes with the Relay energized and not

energized to check the shock values

that cause the Relay to malfunction.

Criteria: Non-energized: 200 m/s²

times each in 6 directions along 3

N = 20





MY2K 24 VDC Magnetic Interference (External Magnetic Field)

- Uniform magnetic field strength (0e) -

For AC

Latching Deterioration Over Time



(Unit: mm)

Dimensions

Relays with Plug-in Terminals or Soldered Terminals MY2K



Terminal Arrangement/Internal Connections (Bottom View)



Note: R is a resistor for ampere-turn correction. This resistor is built-in to 50-VAC and higher models. (The coil has no polarity.)

Safety Precautions

- For applications that use a 200 VAC power supply, connect external resistors Rs and Rr to a 100 VAC Relay.
 Do not apply a voltage to the set and reset coils at the same time. If you apply the rated voltage to both coils
- Do not apply a voltage to the set and reset coils a simultaneously, the Relay will be set.
- The minimum pulse width in the performance column is the value for the following measurement conditions: an ambient
 temperature of 23° C with the rated operating voltage applied to the coil. The performance values given here may not be
 satisfied due to use over time and a reduction in latching performance due to changes in the ambient temperature or in
 the conditions of the application circuit.
- For actual use, apply the rated operating voltage with a pulse width based on the actual load and reset the Relay at least once per year to prevent degradation over time.
- If the Relay is used in an environment with strong magnetic fields, the surrounding magnetic field can demagnetize the
 magnetic body and cause unintended operation. Therefore, do not use these Relays in environments with strong
 magnetic fields.

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Applicable Sockets

Use only combinations of OMRON Relays and Sockets.





Hermetically Sealed Relays: MY4(Z)H

Specifications

Contact Ratings

Load	MY	'4H	MY	4ZH				
Item	Resistive load	Inductive load $\cos \phi = 0.4$ L/R = 7 ms	Resistive load	Inductive load $\cos \phi = 0.4$ L/R = 7 ms				
Rated load	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC				
Rated carry current	3 A							
Maximum contact voltage	125 VAC 125 VDC							
Maximum contact current	3 A							
Contact form	4DPDT		4DPDT (Bifur	rcated)				
Contact materials	Au plating + /	Ag						
Ambient operating temperature	–25 to 60° C*							
Ambient operating humidity	5% to 85%							

* With no icing or condensation.

Characteristics

Contact re	sistance*1	50 m Ω max.		
Operation	time ^{*2}	20 ms max.		
Release time*2		20 ms max.		
Maximum Mechanical		18,000 operations/h		
operating frequency	Rated load	1,800 operations/h		
Insulation	resistance*4	100 MΩ min.		
Dielectric Between coil and contacts		1,000 VAC at 50/60 Hz for 1 min.		
strength	Between contacts of different polarity	(700 VAC between contacts of the same polarity.)		
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)		
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)		
Shock	Destruction	1,000 m/s ²		
resistance	Malfunction	200 m/s ²		
Endurance	Mechanical	50,000,000 operations (5,000,000 operations*4) min. (operating frequency: 18,000 operations/h)		
Electrical ^{*5}		100,000 operations (50,000 operations*4) min. rated load, switching frequency: 1,800 operations/h)		
Failure rat (reference		Single contacts: 100 μA at 1 VDC Bifurcated contacts: 100 μA at 100 mVDC		
Weight		Approx. 50 g		

Note: The above values are initial values. *1. Measurement conditions: 1 A at 5 VDC using the voltage drop method *2. Measurement conditions: With rated operating power applied, not including

*2. Measurement conditions: With rated operating power applied, not including contact bounce. Ambient temperature condition: 23° C
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. This value is for bifurcated contacts.
*5. Ambient temperature condition: 23° C
*6. This value was measured at a switching frequency of 120 operations per minute.

Engineering Data



Endurance Curve

MY4H



Note: The durability of bifurcated contacts is one-half that of single contacts.

Relays with Plug-in Terminals or Soldered Terminals $\ensuremath{\mathsf{MY4}}(\ensuremath{\mathsf{Z}})\ensuremath{\mathsf{H}}$



Terminal Arrangement/ Internal Connections (Bottom View)



Safety Precautions

Applicable Sockets

Use only combinations of OMRON Relays and Sockets. Application Environment for Hermetically Sealed

Relays

Humid environments can cause insulation problems, which may result in shortcircuiting or unintended operation.

Solution

Do not use these Relays in any environment where the Relay will come into contact with water vapor, condensation, or water droplets. This can reduce the surface tension of the insulating beads and cause short-circuiting or unintended operation due to poor insulation.

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Sockets for MY

DIN-rail-mounted (DIN-rail) Socket Conforms to VDE 0106, Part 100

- Snap into position along continuous sections of any mounting DIN-rail.
- Facilitates sheet metal design by standardized mounting dimensions.
- Design with sufficient dielectric separation between terminals eliminates the need of any insulating sheet.



Mounting	Terminal type	No. of poles	Appearance	Model	Carry current	Dielectric withstand voltage	Insulation resistance (see note 2)
	Push-In Plus	2		PYF-08-PU	10 A	- 2,000 VAC, 1 min	1,000 MΩ min
	terminals	4		PYF-14-PU	6 A	2,000 07,0, 1 11,11	
	Screw terminals	2		PYFZ-08-E/ PYFZ-08	10 A	2,250 VAC, 1 min	1,000 MΩ min
DIN-rail-mounted Socket				PYF08A-N (see note 3)	7 A (see note 4)	2,000 VAC, 1 min	
		4		PYFZ-14-E/ PYFZ-14	6 A	2,250 VAC, 1 min	1,000 MΩ min
				PYF14A-N (see note 3)	5 A (see note 4)	2,000 VAC, 1 min	1,000 M22 Min
	Rise-Up terminals	2 and 4 Common		PYF14-ESS-B	_ 12 A	> 3 KV	> 5 MΩ
				PYF14-ESN-B			

Specifications

Mounting	Terminal type	No. of poles	Appearance	Model	Carry current	Dielectric withstand voltage	Insulation resistance (see note 2)
	Solder terminals	2		PY08/ PY08-Y1	7 A	1,500 VAC, 1 min	1000 MΩ min.
		4		PY14/ PY14-Y1	3 A		100 MΩ min.
Back-connecting	Wrapping terminals Relays with PCB terminals	2		PY08QN/ PY08QN-Y1	7 A		
		4		PY14QN/ PY14QN-Y1	3 A		
		2		PY08-02	7 A		
		4		PY14-02	3 A		

Note: 1. The values given above are initial values.
 2. The values for insulation resistance were measured at 500 VDC at the same place as the dielectric strength.
 3. The maximum operating ambient temperature for the PYF08A-N and PYF14A-N is 55°C.
 4. When using the PYF08A-N or PYF14A-N at an operating ambient temperature exceeding 40°C, reduce the current to 60%.
 5. The MY2(S) can be used at 70°C with a carry current of 7 A.

Options (Order Separately)

Connection Socket and Mounting Bracket Selection Table

(The possible combinations of models with plug-in terminals and sockets)

Connecting method		Fro	ont-mounting	g Sockets (PY	FD)			Back m	ounting So	ekote (DV 🗆	`	
Мо	Mounting method		Track or sc	rew mounting	<u> </u>	Back-mounting Sockets (PYD)						
			Screw terminals		Push-In Plus			Wrapping terminals				Relays
Terminal Type		/ f · · · · · · · ·		Rise-Up terminals			Solder terminals		Terminal length: 25 mm		Terminal length: 20 mm	
No. of poles	Model	(Order sep Hold-dowr		Without Release Lever	With Release Lever	Without Mounting Brackets *1	With Mounting Brackets	Without Mounting Brackets *1	With Mounting Brackets	Without Mounting Brackets *1	With Mounting Brackets	(Order separately : Hold-down Clips) *1
	MY2(S), MY2ZN (except for MY2K ⁽⁾ , MY2Z ⁽⁾ -CR)	PYFZ-08 (PYC-A1)	PYFZ-08-E (PYC-A1) PYF08A-N (PYC-A1)		PY08 (PYC-P)	PY08-Y1	PY08QN (PYC-P)		PY08QN2	PY08QN2-Y1	PY08-02	
8	MY2I(S) *4	PYFZ-08 (PYC-E1)	PYFZ-08-E (PYC-E1) PYF08A-N (PYC-E1)	PYF14-ESN-B	PYF-08-PU			(110-1)		(PYC-P)		(PYC-P)
	MY2Z-⊡-CR * ⁵	PYFZ-08 (Y92H-3)	PYFZ-08-E (Y92H-3) PFY08A-N (Y92H-3)	(PYC-35-B) PYF14-ESS-B (PYC-35-B)		PY08 (PYC-1)	PY08-Y3	PY08QN (PYC-1)		PY08QN2 (PYC-1)		PY08-02 (PYC-1)
14	MY4(S), MY4I(S), MY4-CBG, MY4Q, MY4(Z)H, MY2K	PYFZ-14 (PYC-A1)	PYFZ-14-E (PYC-A1) PYF14A-N (PYC-A1)		PYF-14-PU	PY14 (PYC-P)	PY14-Y1	PY14QN (PYC-P)	PY14QN-Y1	PY14QN2 (PYC-P)	PY14QN2-Y1	PY14-02 (PYC-P)

Note: Refer to Common Socket and DIN Track Products for the external dimensions of the Socket Relays and details on Hold-down Clips. *1. The information in parentheses is the model number of the applicable Mounting Bracket. Mounting Brackets are sold in sets of two. However, the PYC-P is just one Mounting Bracket.

*2. A Push-In Plus Terminal Block Socket functions as a release lever to hold or remove a Relay. Refer to PYF-□-PU/P2RF-□-PU for details.
*3. If an MYI□(S) Relay with a Latching Lever is used in combination with a PY□-02 Socket for Relays with PCB Terminal Socket and PYC-P

Mounting Brackets, the lever will not operate. *4. We recommends using the PYC-E1 Mounting Bracket for a MY2I(S) Relay with Latching Lever. (If the PYC-A1 is used with the MY2I(S), the latching lever will be blocked by the Mounting Bracket and the lever will not operate.)

*5. The Mounting Brackets are applicable for Relays with a height of 36 mm or less. If the Relay height is greater than 53 mm, use Y92H-3 for the Front-mounting Socket and PYC-1 for the Back-mounting Socket. (The Y92H-3 is a set of two Brackets and the PYC-1 is just one Bracket.)

Terminal Covers for PYFZ-08/PYFZ-14 Sockets

Applicable model	Model			
PYFZ-08	PYCZ-C08 (2 pcs/set)			
PYFZ-14	PYCZ-C14 (1 pcs/set)			

Note: Use these covers in a combination with PYFZ-08 and PYFZ-14.

Mounting Plates for Sockets

Socket model	For 1 Socket	For 18 Sockets	For 36 Sockets
PY08, PY08QN(2), PY14, PY14QN(2)	PYP-1	PYP-18	PYP-36

Note: PYP-18 and PYP-36 can be cut into any desired length in accordance with the number of Sockets.

DIN-rail and Accessories

Supporting DIN-rail (length = 500 mm)	PFP-50N
Supporting DIN-rail (length = 1,000 mm) PFP	PFP-100N, PFP-100N2
End Plate	PFP-M
Spacer	PFP-S

Safety Standards for Sockets Front-mounted Sockets (PYF)

Model	Standards	File No.
	TÜV (EN 61984)	
PYF-08-PU PYF-14-PU	UL508	E87929
	CSA C22.2 No.14	
PYF14A-E, PYF14A-N	VDE0627 (EN61984)	Nr.B387 (License No.)
	TÜV(EN 61984)	R50405329
PYFZ-08-E, PYFZ-08 PYFZ-14-E, PYFZ-14	UL508	E87929
,	CSA22.2	LR31928
	TÜV(EN 61984)	J50224549
PYF08A-N PYF14A-N	UL508	E87929
	CSA22.2	LR31928
PYF14-ESN-B	UL508	E244189
PYF14-ESS-B	CSA22.2	LR225761

Back-connecting Sockets (PY□)

Model	Standards	File No.
PY08(-02)	UL508	E87929
PY14(-02)	CSA C22.2	LR31928



Mounting Heights with Sockets (Unit: mm)

Front-mounting Sockets Screw terminal (PYFZ-□ (-E), PYF□A-N, PYF14-ES□-B)



Note: 1. The heights given in parentheses are the measurements for 53-mm-high Relays.

Back-mounting Sockets

Solder terminals/Wrapping terminals (PY□)



Push-In Plus Terminal Block Sockets (PYF-□-PU)



Relays with PCB Terminals (PY⊡-02)



Dimensions

Note: All units are in millimeters unless otherwise indicated.

(Unit: mm)



MY(S)



28

MY(S)





Note: Use a panel with plate thickness of 1 to 2 mm for mounting the Sockets.

Short Bars for Relay Sockets and PYFZ/PYF Sockets Short Bars for crossover wiring within one Socket or between Sockets

Application	Pitch	Applicable model	Appearance and dimensions (mm)	L (Length)	No. of poles	Model *	Specifications
				15.1	2	PYDN-7.75-020	
For Contact	7.75			22.85	3	PYDN-7.75-030	
terminals (common)	mm			30.6	4	PYDN-7.75-040	
		PYF-□-PU	2:25 1.57	154.6	20	PYDN-7.75-200	Max. carry current: 20 A
For Coil terminals	31.0 mm	PYF-□-PU	3.90 3.90 12 18.5 2.25 2.24.35 1.57	224.35	8	PYDN-31.0-080	Minimum order: 10

* Replace the box (
) in the model number with the specification code for the covering color. B: Black, S: Blue, R: Red Note: When using short bar to coil terminals of PYF---PU, make sure to use PYDN-31.0-080
(31mm).

Labels

Applicable sockets	Model	Manufacturer	Minimum order (Box) (quantity per box)				
PYF-08-PU(-L) PYF-14PU(-L)	MG-CPM-04 41390N	Cembre	1,680 (35 sheet / 48 pieces)				

Note: PRINTER: MARKINGENIUS MG3 (Ask to your Omron contact for more details on printers)

Short Bars for within the Same Socket

Pitch	Applicable model	Appearance	Dimensions (mm)	No. of poles	Model *	Specifications	
7	PYFZ-14	ALL ALL		2	PYD-020B□	Max. carry current: 20 A (18 A at 70°C) Ambient operating temp.: -40 to 70°C (with no icing or condensation) Ambient operating humidity: 45% to 85% (with	
mm				3	PYD-030B	no icing or condensation) Conductor material: Brass Conductor surface treatment: Nickel plating Qty per package: 50/bag	

* Replace the box (
) in the model number with the specification code for the covering color. B: Black, Y: Yellow

Short Bars for Adjacent Sockets

Pitch	Applicable model	Appearance	Dimensions (mm)	No. of poles	Model *	Specifications	
22			-22- 	2	PYD-025B□	Max. carry current: 20 A (18 A at 70°C) Ambient operating temp.: -40 to 70°C (with no icing or condensation) Ambient operating humidity: 45% to 85% (with	
mm	PYFZ-08			8	PYD-085B□	no icing or condensation) Conductor material: Brass Conductor surface treatment: Nickel plating Qty per package: 10/bag	
29	PYFZ-14			2	PYD-026B□	Max. carry current: 20 A (18 A at 70°C) Ambient operating temp.: -40 to 70°C (with no icing or condensation) Ambient operating humidity: 45% to 85% (with	
mm	F 1FZ-14		203 -29 -29 -29 -29 -29 -29 -29 -29	8	PYD-086B□	no icing or condensation) Conductor material: Brass Conductor surface treatment: Nickel plating Qty per package: 10/bag	

* Replace the box (
) in the model number with the specification code for the covering color. B: Black, S: Blue, R: Red

MY(S)

Safety Precautions

Maximum Carry Current

- Do not allow the total current for all shorted contact form to exceed the maximum carry current of the Short Bar.
- Do not exceed the maximum carry current of the relay contacts for individual contact form.
 If you use more than one Socket, use End Plates (PFP-M).

Hold-down Clips





For sockets PYF14-ESN/-ESS

Model	Description
PYC-0	Metal spring clip (Used with Relay only)
PYC 35	Plastic holding clip (Used with Relay only)
PYC TR1	Thermoplastic writable label

Note: For total dimensions with plastic clip please refer to drawings of the sockets.



PYC-1





Terminal Covers for PYFZ-08/PYFZ-14 Sockets

PYCZ-C08 (for PYFZ-08)



PYCZ-C14 (for PYFZ-14)



Dimensions with terminal cover

PYCZ-C08





PYCZ-C14





(Unit: mm)

Mounting Plates for Back-connecting Sockets





PYP-18



PYP-36



DIN-rails and Accessories Supporting DIN-rails

PFP-50N/PFP-100N



Note: The figure in the parentheses is for PFP-50N.



PFP-100N2







Spacer PFP-S



End Plate







MY(S) Safety Precautions

Refer to the Common Relay Precautions.

Refer to *Products Related to Common Sockets and DIN Tracks* for precautions on the applicable Sockets. Refer to *PYF-DPU/P2RF-DPU* for precautions on Push-In Plus Terminal Block Sockets.

Precautions for Correct Use

Handling

For models with a built-in operation indicator, models with a built-in diode, or high-sensitivity models, check the coil polarity when wiring and wire all connections correctly (DC operation).

Installation

 There is no specifically required installation orientation, but make sure that the Relays are installed so that the contacts are not subjected to vibration or shock in their movement direction.



 Use two M3 screws to attach Flange-mounted models (MY
F) and tighten the screws securely (tightening torque: 0.98 N•m).

Using MY-series Relays with Microloads with Infrequent Operation

If any standard MY-series Relays (e.g., MY4) are used infrequently to switch microloads, the contacts may become unstable and eventually result in poor contact. In this case, we recommend using the MY4Z-CBG Series, which has high contact reliability for microloads (Refer to page 15.)

About the Built-in Diode and CR Elements

The diode or CR element that are built into the Relay are designed to absorb the reverse voltage from the Relay coil. If a large surge in voltage is applied to the diode or CR element from an external source, the element will be destroyed. If there is the possibility of large voltage surges that could be applied to the elements from an external source, take any necessary surge absorption measures.

Latching Levers

- Turn OFF the power supply when operating the latching lever. After you use the latching lever always return it to its original state.
- Do not use the latching lever as a switch.
- The latching lever can be used for 100 operations min.

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation **Industrial Automation Company** Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2018-2021 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. CSM_1_7 Cat. No. J224-E1-06

OMRON

AL 🚯 🕰

Sockets with Push-In Plus technology PYF-D-PU/PTF-D-PU/P2RF-D-PU

Sockets with Push-In Plus technology to Save Work Added to Series for MY, LY and G2R-S Relays

- Sockets with Push-In Plus technology are used to save wiring work in comparison with traditional screw terminals. (Wiring time is reduced by 60%* in comparison with traditional screw terminals.)
- No screw loosening means maintenance-free application.
- Light insertion force and strong pull-out strength to achieve both less wiring work and high reliability.
- 'Hand-free' structure that holds an inserted screwdriver to achieve easier wiring work for stranded wires.
- Each terminal includes two wiring holes and can be used for crossover wiring.
- DIN Track mounting or screw mounting.
- * According to OMRON actual measurement data from November 2015.

Refer to Safety Precautions on page 10.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Features

- · Coil terminals and contact terminals are completely separated in an organized wiring layout.
- A Release Lever is provided as a standard feature. (except -L models)
- DIN terminal numbers are indicated.
- The double fixture rail with DIN hook tabs attached to the top and bottom lets you mount the Socket from either the top or bottom.
- One-touch Installation onto DIN-track.
- Front-in short bar enables easy installation without interference in duct when wiring.
- Please refer short bar correspondence table in page 9 for further information of short bar.
- There are screw mounting holes in the DIN hooks on the PYF- -PU, PTF- -PU and P2RF- -PU. Pull out the DIN hook tabs to mount the Sockets with screws.



* The PTF- \Box -PU Sockets do not have short bar insertion holes.



Back of Push-In Plus Terminal Block Socket

The fixture rails can be pulled out to mount the Relays with screws.



Ordering Information

Sockets

PYF Series

A	liashla madal (tyriasl ayam	No. of rolog	Socket	
Арр	licable model (typical exam	No. of poles	Model *1	
		MY2□ MY2IN(S)	2	PYF-08-PU
General Purpose Relays	MY Series	MY4⊡ MY4H MYQ4⊡ MY4⊡(S) MY2K	4	PYF-14-PU
		MY2(N)-CR AC24 MY2Z(N)-CR	2	PYF-08-PU-L * 2
		MY4(N)-CR AC24 MY4N-CR AC115 MY4ZN-CBG-CR	4	PYF-14-PU-L * 2
	G3FM Series	G3FM		
SSR	G3F/G3FD Series	G3F	1	PYF-08-PU
	GSF/GSFD Selles	G3FD		
- .	H3Y Series	H3Y(N)-2-B	2	PYF-08-PU-L
Timers	H3YN Series	H3Y(N)-4-B	4	PYF-14-PU-L

PTF Series

Applia	Applicable model (typical example)			Socket
		No. of poles	Model *	
General Purpose Relays	LY Series	LY2	2	PTF-08-PU
		LY2□-CR	2	PTF-08-PU-L
		LY4	4	PTF-14-PU-L
	G3H Series	G3H		
SSR	Gon Genes	G3HD	1	PTF-08-PU
	G9H Series Note: Hybrid Power Relay	G9H		
Temperature Controller	emperature Controller E5L			PTF-14-PU-L

* The PTF- $\Box\Box$ -PU-L Sockets do not have release levers.

P2RF Series

A				Socket	
Applicable model (typical example)			No. of poles	Model	
General Purpose Relays	G2R-D-S (S) Series	G2R-1-S (S)			
000	G3R-I/O Series	G3R			
SSR	G3RZ Series	G3RZ		P2RF-05-PU	
Timers	H3RN Series	H3RN-1-B			
General Purpose Relays	G2R-D-S (S) Series	G2R-2-S (S)		P2RF-08-PU	
Timers	H3RN Series	H3RN-2-B	2		
Liquid Leakage Sensors	K7L Series	K7L-□B			

Accessories (Order Separately)

Short Bars

Pitch	Applicable models	No. of poles	Colors	Model *	Minimum order (quantity)
		2		PYDN-7.75-020	
7.75 - 199 199	PYF-DD-PU and	3	3	PYDN-7.75-030	
7.75 mm	P2RF-DD-PU	4	4 1.00(1.)	PYDN-7.75-040	10
		20	Blue (S) Yellow (Y)	PYDN-7.75-200	10
15.5 mm	P2RF-DD-PU	8		PYDN-15.5-080	
31.0 mm	PYF-DD-PU	8		PYDN-31.0-080	

Note: Use the Short Bars for crossover wiring within one Socket or between Sockets.

 $\ast\, {\sf Replace}$ the box () in the model number with the code for the covering color.

Labels

Applicable models	Model	Manufacturer	Minimum order (Box) (quantity per Box)
PYF-□□-PU/ PTF-□□-PU/ P2RF-□□-PU	MG-CPM-04 41390N	Cembre	1,680 (35 sheet/48 pieces)

Note: PRINTER: MARKINGENIUS MG3 (Ask to your Omron contact for more details on printers)

Hold-down Clip

Applicable models (Combinations)	Model	Minimum order (quantity)
PYF-08-PU-L H3Y(N)-2-B		
PYF-14-PU-L H3Y(N)-4-B	Y92H-3	10
PTF-08-PU-L LY2□-CR		
PTF-14-PU-L LY4□	PYC-A1	100
PTF-14-PU-L E5L	Y92H-10 *	1

Parts for DIN Track Mounting

Туре		Model	Minimum order (quantity)
	1 m	PFP-100N	1
DIN Tracks	0.5 m	PFP-50N	
End Plate *	End Plate * PFP-M		10
Spacer		PFP-S	10

* When mounting DIN rail, please use End Plate (Model PFP-M).

* Included with the E5L unit.

If you lose or damage the hold-down clip (Y92H-10), order it separately.

Ratings/Characteristics

Characteristics Sockets

PYF-DD-PU(-L)

Item	Model	PYF-08-PU (-L)	PYF-14-PU (-L)
Ambient of	operating temperature	-40 to 70°C	
Ambient of	perating humidity	5 to 85%	
Continuou	us carry current *	10 A	6 A
	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
Dielectric strength	Between contact terminals of different polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between coil and contact terminals	2,000 VAC, 1 min	2,000 VAC, 1 min
Insulation	resistance	1,000 MΩ min. (at 500 VDC)	
Weight (a	pprox.)	80 g 87 g	

* The continuous carry current of 10 A for PYF-08-PU(-L) is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

PTF-DD-PU(-L)

Item	Model	PTF-08-PU (-L)	PTF-14-PU-L
Ambient of	perating temperature	-40 to 70°C	
Ambient of	perating humidity	5 to 85%	
Continuou	is carry current *	10 A	
	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
Dielectric strength	Between contact terminals of different polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between coil and contact terminals	2,000 VAC, 1 min	2,000 VAC, 1 min
Insulation	resistance	1,000 MΩ min. (at 500 VDC)	
Weight (a	oprox.)	65 g 100 g	

* The continuous carry current of 10 A for PTF-08-PU(-L) is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

The continuous carry current of 10 A for PTF-14-PU-L is for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7 A.

Accessories (Order Separately)

Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
For Contact terminals (common) PYF-14-PU(-L) P2RF-05-PU P2RF-08-PU		PYDN-7.75-020			5 to 85% Rh
		PYDN-7.75-030	- 20 A	-40 to 70°C	
		PYDN-7.75-040			
		PYDN-7.75-200			
For Coil terminals	P2RF-05-PU P2RF-08-PU P2DN-15.5-080	- 20 A	-40 to 70°C	5 to 85% Bh	
For Coll terminals	PYF-08-PU(-L) PYF-14-PU(-L)	PYDN-31.0-080	- 20 A	-40 10 70 C	10 00 % 10 00 %

P2RF-□□-PU

liter and	Mastal		
Item	Model	P2RF-05-PU	P2RF-08-PU
Ambient of	operating temperature	-40 to 70°C	
Ambient of	operating humidity	5 to 85%	
Continuou	us carry current *	10 A	6 A
	Between contact terminals of same polarity	1,000 VAC, 1 min	1,000 VAC, 1 min
Dielectric strength	Between contact terminals of different polarity		3,000 VAC, 1 min
	Between coil and contact terminals	4,000 VAC, 1 min	4,000 VAC, 1 min
Insulation	nsulation resistance 1,000 MΩ min. (at 5		500 VDC)
Weight (a	pprox.)	40 g 45 g	

* The continuous carry current of 10 A for P2RF-05-PU is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

The continuous carry current of 6 A for P2RF-08-PU is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 5 A.

Approved Standards CSA certification (File No. LR031928)

Model	Ratings	Class No.	Standard No.
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V		
PYF-14-PU (-L)	6A 250V *	3211 07	CSA C22.2 No14
PTF-14-PU (-L)	10 A 250 V (Same polarity)		
P2RF-08-PU	6 A 250 V		

*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

UL standard certification (File No. E87929)

Model	Ratings	Standard No.	Category	Listed/ Recognized
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V			
PYF-14-PU (-L)	6 A 250 V *	UL508	SWIV2	Recognized
PTF-14-PU (-L)	10 A 250 V (Same polarity)			
P2RF-08-PU	6 A 250 V			

*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

TÜV Rheinland certification

Model	Ratings	Standard No.	Certification No.
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V *1		
PYF-14-PU (-L)	6 A 250 V	EN 61984	R50327595
PTF-14-PU (-L)	10 A 250 V *2		
P2RF-08-PU	6 A 250 V *3		

***1.** Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A. ***2.** Ratings are for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7 A. ***3.** Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 5 A.

PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU

Dimensions

Sockets



parentheses are

traditionally used

terminal numbers.

*The PYF-08-PU-L Sockets do not have release levers.

52.1



Mounting Heights PYF-08-PU





mount the Socket with

screws.

PYF-O-PU/PTF-O-PU/P2RF-O-PU

PTF-08-PU (-L)





70.1





Note: When you apply a minimum of 10 A of current to an LY1 when it is used in combination with the PTF-08-PU(-L), connect each of

the following terminal pairs: (1) to (2), (3) to (4), and (5) to (6). * The PTF-08-PU-L Sockets do not have release levers.



Note: Pull out the hooks to mount the Socket with screws.



Mounting Heights PTF-08-PU







PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU



Mounting Heights P2RF-05-PU

P2RF-08-PU





PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU

Accessories (Order Separately)

Short Bars

PYDN-7.75-00 (7.75 mm)



PYDN-15.5-080 (15.5mm)

115.85

2.25

Application	Pitch	Applicable sockets	No. of poles	L (Length)	Colors	Model *
		PYF-0-PU and	2	15.1	Red (R)	PYDN-7.75-020
For Contact			3	22.85		PYDN-7.75-030
terminals 7.75 mm (common)	7.75 mm	P2RF-DD-PU	4	30.6		PYDN-7.75-040
		20	154.6	Blue (S) Yellow (Y)	PYDN-7.75-200	
For Coil	15.5 mm P2RF-□□-PU	8	115.85		PYDN-15.5-080	
terminals	31 mm	PYF-DD-PU	8	224.35	1	PYDN-31.0-080

Note: 1. Use the Short Bars for crossover wiring within one Socket or between Sockets.
2. When using short bar to coil terminals of P2RF-□□-PU, make sure to use PYDN-15.5-080□ (15.5 mm).

080 (31 mm).

* Replace the box (\Box) in the model number with the code for the covering color.

PYDN-31.0-080 (31mm)

ž



Parts for DIN Track Mounting

Refer to your OMRON website for details on the PFP-D.

18.5

12

Safety Precautions

Be sure to read the *Common Precautions for All Relays* in the website at the following URL: http://www.ia.omron.com/.

Warning Indications

	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.		
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.		
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.		

Meaning of Product Safety Symbols

🕂 WARNING

Make sure that the Socket does not have an electrical charge before you perform wiring or maintenance work. Electrical shock may occur.



Precautions for Safe Use

Transportation

- Do not use a Socket that has fallen to the floor or ground. The performance of a Socket that has been dropped may be reduced.
- Do not drop the Socket or subject it to abnormal vibration or shock during transportation or mounting. Doing so may result in deterioration of performance, malfunction, or failure.
- Do not transport a Socket when it is not packaged. Damage or failure may occur.

Operating and Storage Environments

- Do not use or store Sockets in the following locations. Doing so may result in deterioration of performance.
 - Locations subject to ambient storage temperatures outside the range 40 to 70°C
 - Locations subject to relative humidity outside the range 5% to 85%
 - Locations subject to high temperature or high humidity
 - Locations in which condensation may occur due to rapid changes in temperature
- Do not use or store Sockets in environments that contain silicone gas, sulfidizing gas (e.g., SO₂ or H₂S), or organic gas, or near materials that contain silicone. Doing so may cause the contacts to be unstable or to fail.
- Do not use a Socket in a location subject to ultraviolet light (such as a location subject to direct sunlight). Printing may fade, the Socket may rust or corrode, and plastic parts may deteriorate.
- Before you start wiring, make sure that the Socket is securely attached and mounted to a DIN Track. If the Socket is not stable, it may fall and possibly injure a worker.
- Insert the flat-blade screwdriver fully to the bottom of the release hole. If the flat-blade screwdriver is not inserted correctly, the wire may not be connected correctly.
- If there is lubrication, such as oil, on the tip of the flat-blade screwdriver, the flat-blade screwdriver may fall and possibly injure a worker.

- When crossover wiring by wire and short bar, make sure not to insert wrong position, it may cause short circuit, malfunction or failure.
- Avoid using or storing in a location where the unit will be subject to direct vibration or shock. Risk of failure, malfunctioning, or deterioration of performance.

Push-In Plus Terminal Blocks

- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a screwdriver into the release holes at an angle. The terminal block may be damaged if the flat-blade screwdriver is inserted straight in.
- Do not allow the flat-blade screwdriver to fall when you are holding it in a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire disconnection.
- Do not insert more than one wire into each terminal insertion hole.
- If you use wire or a short-circuit bar for crossover wiring, take care that there are no incorrect insertions. Incorrect insertion may cause short-circuiting, malfunctioning, or failure.
- To prevent wire materials from smoking or igniting, confirm wire ratings and use the wiring materials given in the following table.

Model	Recommended wires	Stripping length	
PYF-□□-PU/ P2RF-□□-PU	0.5 to 1.5 mm ² / AWG20 to AWG16 stranded wire, 0.8 to 1.3 mm ² solid wire	8 mm	
PTF-DD-PU	0.5 to 2.5 mm ² / AWG20 to AWG14 stranded wire, 0.8 to 1.6 mm ² solid wire	0 mm	

Disposal

• If you dispose of any Sockets, do not place them in a fire.

Common connection method when using a short bar

Precautions for Correct Use

- Do not transport the Socket under the following conditions. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
 - · Locations subject to high temperature or high humidity
 - Locations subject to condensation due to rapid changes in temperature
- Do not use or store the Socket in the following locations. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
 - · Locations subject to shock or vibration
 - · Conditions in which an external load may be applied
 - Locations subject to dust, salts, or iron, or locations where there
 is salt damage
- Do not use the Socket in a location where it may be subjected to solvents or alkali liquids.
- Do not insert short bar in the hole for wire or screw driver, it may cause the result of failure of pull out.
 If insert short bar in the hole for wire or screw driver and try to pull
- out, it may cause damage for short bar or socket.
- Insert the short bar so that the protrusion part of the short bar comes to the wire insertion side. Be sure to insert the short bar in the correct direction. Inserting the short bar in the opposite direction will prevent the short bar from being fully inserted, leading to contact failure or other problems.



- Do not use or store in an atmosphere in which ambient silicon gas, sulfuric gas (SO₂, H₂S), or organic gas is present, or near material that contains silicon. This may cause unstable contact or contact failure.
- Do not use or store in a location where water, chemicals, solvents, oil, or other substances may spray or splash on the Socket. Risk of failure, malfunctioning, or deterioration of performance.
- Avoid using or storing in a location where the ambient temperature exceeds -40 to 70°C. Risk of failure, malfunctioning, or deterioration of performance.

Applying 10 A or More When Using an LY1 with the Following Sockets

When you use an LY1 in combination with the PTF-08-PU(-L) connect each of the following terminal pairs: (1)to (2), (3) to (4), and (5) to (6).

Push-In Plus Terminal Blocks 1. Connecting Wires to the Push-In Plus Terminal Block Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.



• If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

- Use the following procedure to connect the wires to the terminal block. 1. Hold a flat-blade screwdriver at an angle and insert it into the release
 - hole. The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
- With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block. At that time, to prevent from separating from one another, please insert in a twisted state.
- 3. Remove the flat-blade screwdriver from the release hole.



Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use recommended ferrules, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

- 1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
- 2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
- 3. Remove the flat-blade screwdriver from the release hole.





3. Recommended Ferrules and Crimp Tools Recommended ferrules

	Applicable wire Ferrule Conductor		Stripping length	Recommended ferrules		
(mm²)	(AWG)	length (mm)	(mm) (Ferrules used)	Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	10	AI 0,25-8	H0.25/12	216-301
*1	24	10	12	AI 0,25-10		
0.34	22	8	10	AI 0,34-8	H0.34/12	216-302
*1	22	10	12	AI 0,34-10		
0.5	20	8	10	AI 0,5-8	H0.5/14	216-201
0.5	5 20	10	12	Al 0,5-10	H0.5/16	216-241
0.75	18	8	10	AI 0,75-8	H0.75/14	216-202
0.75	5 10	10	12	AI 0,75-10	H0.75/16	216-242
1/1.25	5 18/17	8	10	AI 1-8	H1.0/14	216-203
1/1.20		10	12	AI 1-10	H1.0/16	216-243
1.25/1.5	17/16	8	10	AI 1,5-8	H1.5/14	216-204
*2	17/10	10	12	AI 1,5-10	H1.5/16	216-244
2.5	2.5 *3 14	10	12	AI 2,5-10	H2.5/16DS	216-246
*3		12	14	AI 2,5-12	H2.5/19D	216-266
Recorr	Recommended crimp tool			CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

Note: 1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.

2. Make sure that the ferrule processing dimensions conform to the following figures.

PTF-DD-PU

PYF-DD-PU/P2RF-DD-PU

1.9 mm max. 2.6 mm max. 2.3 mm max. 2.7 mm max

- ***1.** If you use AWG24 to AWG22 (0.25 to 0.34 mm²) wires, UL certification will not apply.
- *2. On the PYF-□□-PU / P2RF-□□-PU, do not connect ferrules for the applicable wires (AWG17 to AWG16 (1.25 to 1.5 mm²)) to adjacent terminal (insertion) holes. However, when using a ferrule with no insulation sleeve,

connecting to an adjacent terminal (insertion) hole is possible. (See the list below.)

***3.** AWG14 wire can only be used on the PTF-D-PU.

Ferrule with no insulation sleeve

Applio wi		Ferrule Conductor	or length	Recommended ferrules		
(mm²)	(AWG)	length (mm)		Phoenix Contact product	Weidmuller product	Wago product
1.25/1.5	17/16	10	10	A 1,5-10	H1.5/10	216-144
Recommended crimp tool			CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires. Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2018/Dec.



Model	Manufacturer
ESD 0,40×2,5	Wera
SZS 0,4×2,5 SZF 0-0,4×2,5 *	Phoenix Contact
0.4×2.5×75 302	Wiha
AEF.2,5×75	Facom
210-719	Wago
SDIS 0.4×2.5×75	Weidmuller
9900 (-2.5×75)	Vessel

* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4×2,5 (manufactured by Phoenix Contact).

When mounting a short bar

• Intermediate pins can be bent by a tool or by hand and cut off for use.



• The short bar can be cut to as many poles as needed. Insert the tool from the plastic part side, and cut along the groove in the plastic part between the terminals. When cutting, take care not to break or deform the terminals.

However, because the metal on the cut surface will be exposed, insulation countermeasures between adjacent products must be ensured. Such countermeasures include widening the intervals between products or using XW5Z-EP12 separate plates (order separately).



 When cutting the short bar or its pins, do not touch the conductive part. If the conductive part is deformed, contact failure may result.



Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation **Industrial Automation Company** Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2018-2021 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice.

CSM_1_5 Cat. No. J225-E1-04

1021(1118)
OMRON

🔊 🛞 👜 🕻 E LR

Miniature Power Relays

Best-selling, general-purpose relays that can be selected based on operating environment and application

- Wiring work can be shortened by as much as 60%* compared to conventional screw terminal sockets by combining with push-in plus terminal sockets
 (PYF-□-PU) that feature light insertion force and strong pull-out strength to achieve less wiring work.
- In addition to our standard type (MY), an abundant lineup of models including latching relays that retain contact operation status (MYK) and sealed relays suitable for environments where dust and corrosive gases are present (MYQ/MYH) are also available.
- Selection is possible to suit the application, such as models with operation indicators and models with latching levers (MY plug-in terminals).
- * When both push-in plus terminals and screw terminal sockets are combined with plug-in terminal types (according to actual OMRON measurements as of November 2015)

Refer to Safety Precautions on pages 54 to 55 and Safety Precautions for All Relays.













Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

Miniature Power Relay Types

MY Miniature Power Relays	From page 3
MYK Miniature Power Latching Relays	From page 24
MYQ/MYH Miniature Power Sealed Relays	From page 29

Common Information

Common Options (Order Separately)	From page 35
Common Safety Precautions	From page 54

MYK

Model List

Miniature Power Relays: MY

				Plug-in terminals			PCB terminals	Case-surface
2			L _{TT}	With operation indicator		L _T T	mounting	
ΥM	Classification	Number of poles	Contacts			With latching lever	ſ	
			Single	MY2	MY2N	MY2IN(S)	MY2-02	MY2F
	Other dead me dela	2	Bifurcated	MY2Z	MY2ZN			
	Standard models (compliant with	3	Single	МҮЗ	MY3N		MY3-02	MY3F
	Electrical Appliances		Single	MY4	MY4N	MY4IN(S)	MY4-02	MY4F
	and Material Safety Act)		Bifurcated	MY4Z	MY4ZN	MY4ZIN(S)	MY4Z-02	MY4ZF
			Crossbar bifurcated	MY4Z-CBG	MY4ZN-CBG			
	Models with built-in	2	Single	MY2-D	MY2N-D2	MY2IN-D2(S)		
	diode for coil surge		Bifurcated	MY2Z-D	MY2ZN-D2			
	absorption (compliant with	3	Single	MY3-D	MY3N-D2			
ΥM	Electrical Appliances		Single	MY4-D	MY4N-D2	MY4IN-D2(S)		
≤∣	and Material Safety Act)	4	Bifurcated	MY4Z-D	MY4ZN-D2	MY4ZIN-D2(S)		
N	Models with built-in CR	_	Single	MY2-CR	MY2N-CR			
	circuit for coil surge absorption	2	Bifurcated	MY2Z-CR	MY2ZN-CR			
	(compliant with Electrical Appliances		Single	MY4-CR	MY4N-CR	MY4IN-CR(S)		
	and Material Safety Act)	4	Bifurcated	MY4Z-CR	MY4ZN-CR	MY4ZIN-CR(S)		

Note: 1. The models in this table are UL/CSA certified. This is indicated with a certification mark on the products. (Except crossbar bifurcated models MY4Z-CBG

and MY4ZN-CBG) The standard models with plug-in terminals, models with built-in diodes for coil surge absorption, and models with built-in CR circuits for coil surge absorption were used in combination with the $PYF\squareA-E$, $PYF\square-S$ and $PYF-\square-PU$ for the EC Declaration of Conformity. These products display the CE Marking. 2.

Miniature Power Latching Relays (MYK)

					PCB terminals
	Number				
Classification		Contacts		With operation indicator	
Standard models	2	Single	MY2K		MY2K-02

Miniature Power Sealed Relays (MYQ/MYH)

			Plug-in terminals		PCB terminals
Classification	Number of poles	Contacts		With operation indicator	F
Plastic Sealed Relays		Single	MYQ4	MYQ4N	MYQ4-02
Plastic Sealed Relays	4	Bifurcated	MYQ4Z		MYQ4Z-02
Hermetically Sealed	ermetically Sealed	Single	MY4H		MY4H-0
Relays	4	Bifurcated	MY4ZH		MY4ZH-0

Refer to Front-connecting Sockets and Back-connecting Sockets in Common Options (Order Separately) on pages 35 and 37 for main unit and socket combinations.

MYQ·MYH

Best-selling, general-purpose relays

- AC/DC coil voltage specifications can now be more easily distinguished thanks to the use of color-coded coil tape and operation indicators (LED).
- Latching levers convenient for circuit checking and MY(S) models equipped with mechanical operation indicators and operation indicators for monitoring operation status are available.
- Contact materials and contact structures can be selected based on contact reliability and corrosion resistance. *Voltage is printed on white tape in the case of the Standard 3-pole model (MY3).

Refer to Safety Precautions on pages 54 to 55 and Safety

93' 🚯 🖄 CELR



Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

Features

1. More easily distinguished AC/DC coil voltage specifications

• Distinguished using color-coded coil tape* * Voltage is printed on white tape in the case of the Standard 3-pole model (MY3).



Pink = AC voltage

Precautions for All Relays.



Distinguished using color-coded operation indicators (LED)

Example: MY4



Example: MY4

Operation indicator (LED) Red = AC voltage

Operation indicator (LED) Green = DC voltage

MY

MYK

Common Options (Order Separately)

- 2. Latching levers convenient for circuit checking and MY(S) models equipped with mechanical operation indicators and operation indicators for monitoring operation status are available. Mechanical operation indicator/LED operation indicator
- · Latching lever operating procedure



3. Contact materials and contact structures can be selected based on contact reliability and corrosion resistance.

Contact relia	bility	Corrosion re	sistance	
	Contact structure		Contact material	Typical model
High 🛧	Crossbar bifurcated contacts	High	Au cladding + AgPd	MY4Z-CBG
	Bifurcated contacts	n lin	Au cladding + Ag alloy Au plating + Ag alloy	MY4Z MY2Z
	Single contacts	>	Au cladding + Ag alloy	MY4
Low		Low	Ag alloy	MY2

MY

Model Number Structure

	Model Number Lege	end
	Plug-in Terminals	
MY	Standard models	
~	MY	(Example: MY4ZIN(S))
	(1)	(2) (3)
	(1) Number of poles	(2) Contacts (3) Options
	2: 2-pole 3: 3-pole	None:SingleNone:NoneZ:BifurcatedN:With operation indicator
	4: 4-pole	Z-CBG: Crossbar bifurcated IN(S): With operation indicator/latching lever
МҮК	Models with built-in diode for M Y (1) (1) Number of poles/contacts 2: 2-pole, single contacts 2Z: 2-pole, bifurcated contacts	(Example: MY4ZIN-D2(S)) (2) ts (2) Options -D: Models with built-in diode for coil surge absorption
	3: 3-pole, single contacts	IN-D2(S): Built-in diode for coil surge absorption, with operation indicator/latching lever
	 4: 4-pole, single contacts 4Z: 4-pole, bifurcated contact 	S
ϺϒϘ·ϺϒΗ	(1) Number of poles/contact 2: 2-pole, single contacts	-CR: Models with built-in CR circuit for coil surge absorption
]	2Z: 2-pole, bifurcated contact4: 4-pole, single contacts	 N-CR: Built-in CR circuit for coil surge absorption, with operation indicator IN-CR(S): Built-in CR circuit for coil surge absorption, with operation indicator/latching lever*
S	4Z: 4-pole, bifurcated contact	
Common Options (Order Separately)	•PCB terminals/case so M Y (1) (1) Number of poles/contact	(Example: MY2-02)
Irate	2: 2-pole, single contacts	-02: PCB terminals
ly)	 3: 3-pole, single contacts 4: 4-pole, single contacts 4Z: 4-pole, bifurcated contact 	F: Case-surface mounting

Ordering Information When your order, specify the rated voltage.

●Plug-in Terminals

Without operation indicator

(lassification	Number of poles	Contacts	Model	Rated voltage
		Single	MY2	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
	2	Single		12, 24, 48, 100/110 VDC
	2	Bifurcated	MY2Z	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
		Bilurcaleu		12, 24, 48, 100/110 VDC
Standard models	3	Single	MY3	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
(compliant with	3	Single	IVI I S	12, 24, 48, 100/110 VDC
Electrical Appliances		Single	MY4	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
and Material Safety Act)		Single	IVI ¥ 4	12, 24, 48, 100/110 VDC
	4	Bifurcated	MY4Z	100/110, 110/120, 200/220, 220/240 VAC
	-			12, 24, 48, 100/110 VDC
		Crossbar	MY4Z-CBG	100/110, 110/120, 200/220 VAC
		bifurcated		12, 24, 48, 100/110 VDC
	2	Single	MY2-D	12, 24, 48, 100/110 VDC
Models with built-in	2	Bifurcated	MY2Z-D	12, 24, 100/110 VDC
diode for coil surge absorption	3	Single	MY3-D	12, 24, 100/110 VDC
(DC coil specification only)	4	Single	MY4-D	12, 24, 48, 100/110 VDC
	4	Bifurcated	MY4Z-D	12, 24, 48, 100/110 VDC
Models with built-in CR	2	Single	MY2-CR	100/110, 110/120, 200/220, 220/240 VAC
circuit for coil surge	2	Bifurcated	MY2Z-CR	100/110, 200/220 VAC,
absorption	4	Single	MY4-CR	100/110, 110/120, 200/220, 220/240 VAC
(AC coil specification only)	4	Bifurcated	MY4Z-CR	100/110, 110/120, 200/220, 220/240 VAC

With operation indicator

-				
Classification	Number of poles	Contacts	Model	Rated voltage
		Cinala	MY2N	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
	2	Single		12, 24, 48, 100/110 VDC
	2	Bifurcated	MY2ZN	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
		Bilurcaled		12, 24, 48, 100/110 VDC
Standard models	3	Circula	MY3N	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
(compliant with	3	Single	IVI Y SIN	12, 24, 48, 100/110 VDC
Electrical Appliances		Circula		12, 24, 100/110, 110/120, 200/220, 220/240 VAC
and Material Safety Act)		Single	MY4N	12, 24, 48, 100/110 VDC
	4	Bifurcated Crossbar	MY4ZN	24, 100/110, 110/120, 200/220, 220/240 VAC
	-			12, 24, 48, 100/110 VDC
			MY4ZN-CBG	100/110, 200/220 VAC
		bifurcated		24 VDC
	2	Single	MY2N-D2	12, 24, 48, 100/110 VDC
Models with built-in	2	Bifurcated	MY2ZN-D2	12, 24, 100/110 VDC
diode for coil surge absorption	3	Single	MY3N-D2	12, 24, 100/110 VDC
(DC coil specification only)	4	Single	MY4N-D2	12, 24, 48, 100/110 VDC
	-	Bifurcated	MY4ZN-D2	12, 24, 48, 100/110 VDC
Models with built-in CR	2	Single	MY2N-CR	100/110, 110/120, 200/220, 220/240 VAC
circuit for coil surge	2	Bifurcated	MY2ZN-CR	100/110, 200/220 VAC
absorption	4	Single	MY4N-CR	100/110, 110/120, 200/220, 220/240 VAC
(AC coil specification only)	4	Bifurcated	MY4ZN-CR	100/110, 110/120, 200/220, 220/240 VAC

With operation indicator/latching lever

	Classification	Number of poles	Contacts	Model	Rated voltage
		2	Single	MY2IN(S)	100/110, 200/220 VAC
	Standard models	2	Single	WITZIN(3)	12, 24, 48 VDC
-	(compliant with		Single MY4IN(S)	100/110, 200/220 VAC	
	Electrical Appliances and Material Safety Act)	4		IVI I 4114(S)	12, 24, 48 VDC
			Bifurcated	MY4ZIN(S)	100/110, 200/220 VAC
					12, 24, 48 VDC
2	Models with built-in	2	Single	MY2IN-D2(S)	12, 24, 48 VDC
8	diode for coil surge absorption		Single	MY4IN-D2(S)	12, 24, 48 VDC
Common	(DC coil specification only)	4	Bifurcated	MY4ZIN-D2(S)	12, 24, 48 VDC
) Options (Or	Models with built-in CR circuit for coil surge	4	Single	MY4IN-CR(S)	100/110, 200/220 VAC
	absorption (AC coil specification only)	4	Bifurcated	MY4ZIN-CR(S)	100/110, 200/220 VAC

PCB terminals

Classification	Number of poles		Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	2	Single	MY2-02	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
	2			12, 24, 48, 100/110 VDC
	3	Single	MY3-02	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
				12, 24, 48, 100/110 VDC
	4	Single Bifurcated	MY4-02	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
				12, 24, 48, 100/110 VDC
			MY4Z-02	100/110, 110/120, 200/220 VAC
				12, 24, 48, 100/110 VDC

•Case-surface mounting

Classification	Number of poles		Model	Rated voltage
	2	Single	MY2F	24, 100/110, 110/120, 200/220, 220/240 VAC
Standard models (compliant with Electrical Appliances and Material Safety Act)		Single		12, 24, 48, 100/110 VDC
	3	Single	MY3F	24, 100/110, 200/220 VAC
				24, 100/110 VDC
	4 -	Single	MY4F	24, 100/110, 110/120, 200/220 VAC
				12, 24, 48, 100/110 VDC
		Bifurcated	MY4ZF	200/220 VAC
				12, 24 VDC

Ratings and Specifications

Ratings **Operating Coils**

-<	

Terminal Type	Classification	Number of poles	Contacts	Without operation indicator	With operation indicator
		2	Single	MY2	MY2N
	Standard models	4	Single	MY4	MY4N
Models with built-in diade		4	Bifurcated	MY4Z	MY4ZN
	Models with built-in diode for	2	Single	MY2-D	MY2N-D2
Plug-in terminals	coil surge absorption	4	Single	MY4-D	MY4N-D2
	(DC coil specification only)	4	Bifurcated	MY4Z-D	MY4ZN-D2
	Models with built-in CR circuit	2	Single	MY2-CR	MY2N-CR
	for coil surge absorption		Single	MY4-CR	MY4N-CR
	(AC coil specification only)	4	Bifurcated	MY4Z-CR	MY4ZN-CR

_		ltem	Rated cur	rrent (mA)	Coil resistance	Coil induc	ctance (H)	Must	Must	Maximum	Power
M	Rated	voltage (V)	50 Hz	60 Hz	(Ω)	Armature OFF Armature ON voltage (V) voltage (V)		consumption (VA, W)			
\mathbf{x}		12	106.5	91	46	0.17	0.33				
		24	53.8	46	180	0.69	1.3				
	AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2		Approx. 0.9 to 1.3 (at 60 Hz)
	AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				
		200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1		110% of	
		220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max. 1		rated voltage	
		12	72	2.7	165	0.73	1.37			Ŭ	
	DC	24	36	6.3	662	3.2	5.72		100/		Ammany 0.0
	DC	48	17	7 .6	2,725	10.6	21.0		10% min.*2		Approx. 0.9
		100/110	8.7	/9.6	11,440	45.6	86.2				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.

2. The AC coil resistance and inductance values are reference values only (at 60 Hz).

Operating characteristics were measured at a coil temperature of 23°C 3.

The maximum voltage capacity was measured at an ambient temperature of 23°C. 4.

*1. There is variation between products, but actual values are 80% maximum.

To ensure operation, apply at least 80% of the rated value (at a coil temperature of 23°C).

*2. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

Terminal Type	Classification	Number of poles	Contacts	Without operation indicator	With operation indicator
	Standard models	2	Bifurcated	MY2Z	MY2ZN
	Models with built-in diode for coil surge absorption	2	Bifurcated	MY2Z-D	MY2ZN-D2
Plug-in terminals	(DC coil specification only)	3	Single	MY3-D	MY3N-D2
	Models with built-in CR circuit for coil surge absorption (AC coil specification only)	2	Bifurcated	MY2Z-CR	MY2ZN-CR

	ltem	Rated cur	rrent (mA)	Coil resistance	Coil indu	ctance (H)	Must	Must	Maximum	Power
Rate	d voltage (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	consumption (VA, W)
	12	106.5	91	46	0.17	0.33				
	24	53.8	46	180	0.69	1.3				
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2		Approx. 0.9 to 1.3 (at 60 Hz)
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30% mm. 2	in. 2	
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1		110% of	
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max. 1		rated voltage	
	12	7	5	160	0.73	1.37			Ŭ	
DC	24	36	6.9	650	3.2	5.72		400/		Approx. 0.9
DC	48	18	3.5	2,600	10.6	21.0		10% min.*2		
	100/110	9.1	/10	11,000	45.6	86.2	1			

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.

The AC coil resistance and inductance values are reference values only (at 60 Hz). Operating characteristics were measured at a coil temperature of 23°C. The maximum voltage capacity was measured at an ambient temperature of 23°C. 2.

3. 4.

*1. There is variation between products, but actual values are 80% maximum. To ensure operation, apply at least 80% of the rated value.
*2. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

Common Options (Order Separately)

MYQ·MYH

OMRON

Terminal Type	Classification	Number of poles	Contacts	With latching lever
		2	Single	MY2IN(S)
	Standard models	4	Single	MY4IN(S)
		4	Bifurcated	MY4ZIN(S)
	Models with built-in diode for coil surge absorption	2	Single	MY2IN-D2(S)
Plug-in terminals			Single	MY4IN-D2(S)
	(DC coil specification only)	4	Bifurcated	MY4ZIN-D2(S)
	Models with built-in CR circuit	2	Single	MY4IN-CR(S)
	for coil surge absorption (AC coil specification only)	4	Bifurcated	MY4ZIN-CR(S)

	Item	Rated cur	rent (mA)	Coil resistance	Coil induc	ctance (H)	Must	Must	Maximum	Power
Rated	voltage (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	consumption (VA, W)
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				Approx.0.9
AC	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07		30% min.*2	110% of	to 1.3 (at 60 Hz)
	12	7	5	160	0.73	1.37	80% max.*1		rated	
DC	24	37	.7	636	3.2	5.72		10% min.*2 voltage	vollage	Approx. 0.9
	48	18	9.8	2,560	10.6	21				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.

2. The AC coil resistance and inductance values are reference values only (at 60 Hz).

3. Operating characteristics were measured at a coil temperature of 23°C

4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

*1. There is variation between products, but actual values are 80% maximum. To ensure operation, apply at least 80% of the rated value.

*2. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

Terminal Type	Classification	Number of poles	Contacts	Without operation indicator	With operation indicator
		3	Single	MY3	MY3N
Plug-in terminals	Standard models	4	Crossbar bifurcated	MY4Z-CBG	MY4ZN-CBG
	Standard models	2	Single	MY2-02	_
PCB terminals		3	Single	MY3-02	_
POD terminals	Stanuaru models	4	Single	MY4-02	_
		4	Bifurcated	MY4Z-02	_
		2	Single	MY2F	_
Case-surface mounting	Standard models	3	Single	MY3F	_
	Standard models	4	Single	MY4F	_
			Bifurcated	MY4ZF	—

	Item	Item Rated current (mA) Coll		Coil resistance	Coil indu	ctance (H)	Must	Must	Maximum	Power
Rated	voltage (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	consumption (VA, W)
	12	106.5	91	46	0.17	0.33				
	24	53.8	46	180	0.69	1.3				
•••	100/110	11.7/12.9	10/11	3,750	14.54	24.6		000/		Approx.0.9
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30% min.*2	to 1.3 (at 60 Hz)	
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	000/		110% of	. ,
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max.*1		rated voltage	
	12	7	5	160	0.73	1.37			Ŭ	
D O	24	36	.9	650	3.2	5.72		100/		A
DC	48	18	.5	2,600	10.6	21.0		10% min.*2		Approx. 0.9
	100/110	9.1	/10	11,000	45.6	86.2				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance. The AC coil resistance and inductance values are reference values only (at 60 Hz).

2.

Operating characteristics were measured at a coil temperature of 23°C 3.

4. The maximum voltage capacity was measured at an ambient temperature of 23°C. *1. There is variation between products, but actual values are 80% maximum.

To ensure operation, apply at least 80% of the rated value.

*2. There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

MY

MYK

Common Options (Order Separately)

ontact	Ratings	

Single

Resistive load

5 A at 220 VAC 5 A at 24 VDC

5 A (10 A*2)

5 A

Ag

1,100 VA

120 W

250 VAC, 125 VDC

Inductive load

 $\begin{array}{l} (\cos \phi = 0.4, \\ \text{L/R} = 7 \text{ ms}) \end{array}$

2 A at 220 VAC 2 A at 24 VDC

440 VA

48 W

Co

<	
= <	

Number of poles
(contact configuration)
Contact structure

Rated load Rated carry

current*1 Maximum

switching voltage

MY

Load

	Maximum switching current
Z	Maximum switching power
$\overline{}$	Contact material
X	

Number of poles (contact configuration)					4-pole	(4PDT)				
Contact structure	Single		With Istabi	With latching lever (S)		Bifurcated		ng lever (S)	Crossbar bifurcated (CBG)	
Load	Resistive Ioad	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC	3 A at 250 VAC 3 A at 30 VDC	0.8 A at 250 VAC 1.5 A at 30 VDC	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC	3 A at 250 VAC 3 A at 30 VDC	0.8 A at 250 VAC 1.5 A at 30 VDC	1 A at 220 VAC 1 A at 24 VDC	0.3 A at 220 VAC 0.5 A at 24 VDC
Rated carry current*1	3 A (5 A*2)				3 A (5 A*2)				1 A	
Maximum switching voltage	250 VAC, 12	250 VAC, 125 VDC								
Maximum switching current	3 A								1 A	
Maximum switching power	660 VA 72 W	176 VA 36 W	1,250 VA 150 W	200 VA 45 W	660 VA 72 W	176 VA 36 W	1,250 VA 150 W	200 VA 45 W	220 VA 24 W	66 VA 12 W
Contact material	Au cladding -	+ Ag alloy							Au cladding -	- AgPd

2-pole (DPDT)

With latching lever (S)

Resistive load

5 A at 250 VAC 5 A at 30 VDC

10 A

2,500 VA

300 W

Inductive load

(cos φ = 0.4, L/R = 7 ms)

2 A at 250 VAC 2 A at 30 VDC

500 VA

60 W

3-pole (3PDT)

Single

Resistive load

5 A at 220 VAC 5 A at 24 VDC

250 VAC, 125 VDC

5 A

5 A

Ag

1,100 VA

120 W

Inductive load

 $(\cos \phi = 0.4, L/R = 7 ms)$

2 A at 220 VAC 2 A at 24 VDC

440 VA

48 W

Bifurcated

Resistive load

5 A at 220 VAC 5 A at 24 VDC

5 A

5 A

1,100 VA

Au plating + Ag

120 W

Inductive load

 $\begin{array}{l} (\cos \phi = 0.4, \\ \text{L/R} = 7 \text{ ms}) \end{array}$

2 A at 220 VAC 2 A at 24 VDC

440 VA

48 W

ct material Au cladding + Ag alloy

*1. If you use a Socket, do not exceed the rated carry current of the Socket.
*2. Values shown in parentheses are for the MY

(S) model with latching lever.

M V

MYK

Characteristics

Number of poles (contact configuration) Contact structure		2-pole	(DPDT)	3-pole (3PDT)		4-pole (4PDT)		
		Single	Bifurcated	Single	Single	Bifurcated	Crossbar bifurcated (CBG)	
Contact resistanc	e*1 *2	50 mΩ max.					100 mΩ max.	
Operate t	ime*3	20 ms max.						
Release t	ime*3	20 ms max.						
	Mechanical	18,000 operations/h						
witching requency	Rated load	1,800 operations/h						
nsulatior resistanc		100 M Ω min.						
c c	Between coil and contacts							
Dielectric	Between contacts of different polarity	2,000 VAC, 50/60 Hz fc	or 1 min					
c t	Between contacts of the same polarity	1,000 VAC at 50/60 Hz	for 1 min				700 VAC at 50/60 Hz for 1 min	
/ibration	Destruction	10 to 55 to 10 Hz, 0.5-r	nm single amplitude (1.0)-mm double amplitude)				
esistance I	Malfunction	10 to 55 to 10 Hz, 0.5-r	nm single amplitude (1.0)-mm double amplitude)				
hock I	Destruction	1,000 m/s ²						
esistance I	Malfunction	200 m/s ²						
I Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 50,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 20,000,000 operations min. DC: 20,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 50,000,000 operations min. (switching frequency: 18,000 operations/h)	
	Electrical*5	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)	100,000 operations min. (rated load, switching frequency: 1,800 operations/h)	50,000 operations min (rated load, switching frequency: 1,800 operations/h)	
ailure rate		1 mA at 5 VDC	100 ?A at 1 VDC	1 mA at 5 VDC	1 mA at 1 VDC	100 ?A at 1 VDC	100 ?A at 1 VDC	
Veight		Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 35 g	

Note: The data shown above are initial values.

Note: The data shown above are find values.
*1. Models with latching lever are 100 mΩ maximum.
*2. Measurement conditions: 1 A at 5 VDC using the voltage drop method.
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

Ambient temperature condition: 23°C This value was measured at a switching frequency of 120 operations per minute. *5. *6.

Classification			Standard models		in diode for coil sur CR circuit for coil su			
Contacts	Single/bifurcated			Crossbar/bifu	urcated (CBG)		Single/bifurcated	I
	Without	With operation indicator		Without With operation	Without With operation indicator			
Features	operation indicator		With latching lever	operation indicator	indicator	operation indicator		With latching lever
Ambient operating temperature*1	–55 to 70°C	–55 to 60°C*2	–55 to 70°C	–25 to 70°C	-25 to 60°C	–55 to 60°C*2	–55 to 60°C*2	–55 to 70°C
Ambient operating humidity						5% to 85%		

*1. With no icing or condensation.*2. This limitation is due to the diode junction temperature and elements used.

OMRON

Certified Standards •UL certification (File No. E41515)

		•		-				
MY	Model	Standard number	Category	Listed/ Recognized	Operating Coil ratings	No. of poles	Contact ratings	Certified number of operations
	MY2 MY2N MY2IN(S) MY2N-D2 MY2-D2 MY2IN-D2(S) MY2-CR MY2N-CR	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	2	10 A, 250 VAC (General Use) 10 A, 30 VDC (General Use) 7 A, 240 VAC (General Use) 7 A, 24 VDC (Resistive) 5 A, 240 VAC (General Use) 5 A, 250 VAC (Resistive) 5 A, 30 VDC (Resistive) 3 A, 265 VAC (Resistive)	6,000
							1/6 HP, 250 VAC 1/8 HP, 265 VAC 1/10 HP, 120 VAC	1,000
							B300 Pilot Duty (Same polarity)	6,000
MYK	MY2Z MY2ZN MY2-02 MY2F MY2Z-D MY2Z-D2	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	2	7 A, 240 VAC (General Use) 7 A, 24 VDC (Resistive) 5 A, 240 VAC (General Use) 5 A, 250 VAC (Resistive) 5 A, 30 VDC (Resistive) 3 A, 265 VAC (Resistive)	6,000
	MY2Z-CR MY2ZN-CR						1/6 HP, 250 VAC 1/8 HP, 265 VAC 1/10 HP, 120 VAC	1,000
							B300 Pilot Duty (Same polarity)	6,000
	MY3 MY3N MY3-D	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	3	5 A, 28 VDC (Resistive) 5 A, 240 VAC (General Use)	6,000
	MY3N-D2 MY3-02 MY3F						1/6 HP, 250 VAC	1,000
MYQ·MYH	MY4 MY4N MY4IN(S) MY4-D MY4IN-D2 MY4IN-D2(S) MY4Z MY4ZN MY4ZIN(S) MY4Z-D MY4Z-D MY4Z-D2 MY4ZN-D2 MY4ZIN-D2(S) MY4Z-CR MY4ZN-CR	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	4	5 A, 28 VDC (General Use) (Same polarity) 5 A, 240 VAC (General Use) (Same polarity) 5 A, 30 VDC (Resistive) (Same polarity) 5 A, 250 VAC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive) (Same polarity)	6,000
	MY4ZIN-CR(S)							
Commor	MY4-02 MY4F MY4Z-02						1/6 HP, 250 VAC (Same polarity) 1/10 HP, 120 VAC (Same polarity)	1,000
Ξ I	MY4ZF		1				B300 Pilot Duty (Same polarity)	6,000

non Options (Order Separately)

●CSA certification (File No. LR31928)

Model	Standard number	Class number	Operating Coil ratings	No. of poles	Contact ratings	Certified number of operations	Z
MY2 MY2N MY2IN(S) MY2N-D2 MY2-D2 MY2IN-D2(S)	C22.2 NO.0, No.14		6 to 240 VAC 6 to 125 VDC	2	7 A, 240 VAC (Resistive) 7 A, 24 VDC (Resistive) 5 A, 240 VAC (General Use) 5 A, 250 VAC (Resistive) 5 A, 30 VDC (Resistive)	6,000	YM
MY2-CR MY2N-CR					1/6 HP, 250 VAC (Same polarity) 1/10 HP, 120 VAC (Same polarity)	1,000	
MY2Z MY2ZN MY2-02 MY2F MY2Z-D MY2Z-D2	C22.2 NO.0, No.14	_	6 to 240 VAC 6 to 125 VDC	2	7 A, 240 VAC (General Use) (Same polarity) 7 A, 24 VDC (Resistive) (Same polarity) 5 A, 240 VAC (General Use) (Same polarity) 5 A, 30 VDC (Resistive) 5 A, 250 VAC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive)	6,000	
MY2Z-CR MY2ZN-CR					1/6 HP, 250 VAC 1/10 HP, 120 VAC	1,000	
MY3 MY3N MY3-D MY3N-D2 MY3-02	C22.2 NO.0, No.14	_	6 to 240 VAC 6 to 125 VDC	3	5 A, 28 VDC (Resistive) 5 A, 240 VAC (General Use) 7 A, 240 VAC (General Use) 7 A, 24 VDC (Resistive)	6,000	MYK
MY3F					1/6 HP, 250 VAC	1,000	_
MY4 MY4N(S) MY4-D MY4-D2 MY4N-D2(S) MY4-CR	C22.2 No.14	3211 07	6 to 240 VAC 6 to 125 VDC	4	5 A, 240 VAC (General Use) (Same polarity) 5 A, 28 VDC (General Use) (Same polarity) 5 A, 250 VAC (Resistive) (Same polarity) 5 A, 30 VDC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive) (Same polarity)	6,000	
MY4N-CR MY4IN-CR(S) MY4Z MY4ZN MY4ZIN(S) MY4Z-D MY4ZN-D2 MY4ZN-D2							MYQ·MYH
MY4ZIN-D2(S) MY4Z-C MY4ZN-CR					1/6 HP, 250 VAC (Same polarity) 1/10 HP, 120 VAC (Same polarity)	1,000	X
MY4ZIN-CR(S)					B300 Pilot Duty (Same polarity)	6,000	
MY4-02 MY4F MY4Z-02 MY4ZF	C22.2 NO.0, No.14	3211 07	6 to 240 VAC 6 to 125 VDC	4	7 A, 240 VAC (General Use) (Same polarity) 7 A, 24 VDC (Resistive) (Same polarity) 5 A, 240 VAC (General Use) (Same polarity) 5 A, 30 VDC (Resistive) 5 A, 250 VAC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive)	6,000	
					1/6 HP, 250 VAC 1/10 HP, 120 VAC	1,000	Comm

•TÜV Rheinland certification (Certification No. R50030059)

Model	Operating Coil ratings	Contact ratings	Certified number of operations
MY2Z MY2ZN MY2-02 MY2F MY2Z-D MY2Z-D2 MY2Z-CR MY2ZN-CR	6 to 125 VDC, 6 to 240 VAC	5 A, 250 VAC (cos φ = 1.0)	100,000
MY3 MY3N MY3-D MY3N-D2 MY3-02 MY3F	_	5 A, 250 VAC (cos φ = 1.0) 0.8 A, 250 VAC (cos φ = 0.4)	
MY4-02 MY4F MY4Z-02 MY4ZF		3 A, 120 VAC (cos ϕ = 1.0) 0.8 A, 250 VAC (cos ϕ = 0.4)	

Common Options (Order Separately)

	Model	EMC Directiv	e Low Voltage Direct	ive Machinery Directiv	/e Safety Category
MY MY MY MY MY MY MY MY	2N 2IN(S) 2Z 2D 2N-D2 2N-D2 2IN-D2(S) 2-CR 2N-CR 2Z-CR 2ZN-CR 2ZN-CR 2ZN-CR	Not applicable	Applicable	Not applicable	1
MY MY MY MY MY	3 3N 3-D 3N-D2	-			
MY MY MY MY MY	4 4N 4IN(S) 4Z 4ZN 4ZIN(S) 4-D 4N-D2 4IN-D2(S)				
MY MY MY MY MY MY MY	4Z-D 4ZN-D2 4ZIN-D2(S) 4-CR 4N-CR 4Z-CR 4Z-CR 4ZN-CR				
●L	.R certifi	cation (Lloyd	's Register)	I	I
	Model	File No.	Environmental Category	Operating Coil ratings	Contact ratings
	woder	File NO.	Environmental Category	Operating Contrainings	Contact ratings

●LR certification (Lloyd's Register)

Model	File No.	Environmental Category	Operating Coil ratings	Contact ratings	Certified number of operations
MY2 MY2N MY2IN(S) MY2-D MY2N-D2 MY2IN-D2(S) MY2-CR MY2N-CR	File No.98/10014	ENV2,3	6 to 240 VAC 6 to 125 VDC	10 A, 250 VAC (Resistive) 2 A, 250 VAC (PF0.4) 10 A, 30 VDC (Resistive) 2 A, 30 VDC (L/R = 7 ms)	MY2: 50,000
MY2Z MY2ZN MY2Z-D MY2ZN-D2	File No.90/10270	ENV2,3	6 to 240 VAC 6 to 125 VDC	2 A, 30 VDC inductive load 2 A, 200 VAC inductive load	MY2: 50,000
MY4 MY4IN(S) MY4-D MY4IN-D2 MY4IN-D2 MY4IN-D2(S) MY4-CR MY4IN-CR MY4IN-CR MY4ZN MY4ZN MY4ZN-D2 MY4ZN-D2 MY4ZIN-D2(S) MY4Z-CR MY4ZIN-CR MY4ZIN-CR(S)	File No.98/10014	ENV2,3	6 to 240 VAC 6 to 125 VDC	5 A, 250 VAC (Resistive) 0.8 A, 250 VAC (PF0.4) 5 A, 30 VDC (Resistive) 1.5 A, 30 VDC (L/R = 7 ms)	MY4: 50,000

OMRON

Model	Standard number	Certification No.	Operating Coil ratings	Contact ratings	Certified number of operations
MY2 MY2N MY2IN(S) MY2-D MY2N-D2 MY2IN-D2(S)	EN 61810-1	112467UG	6, 12, 24, 48/50, 100/110, 110/120, 200/220, 220/240 VAC	10A, 250 VAC (cos φ = 1) 10A, 30 VDC (L/R = 0 ms)	MY2: 100,000 MY4: 100,000 MY4Z: 50,000 (AC)
MY2-CR MY2N-CR			6, 12, 24, 48, 100/110, 125 VDC		
MY4 MY4N MY4IN(S) MY4Z MY4ZN MY4ZIN(S)			6, 12, 24, 48/50, 100/110, 110/120, 200/220, 220/240 VAC	5 A, 250 VAC (cos φ = 1) 5 A, 30 VDC (L/R = 0 ms)	
MY4-D MY4ZN-D2 MY4IN-D2(S) MY4Z-D MY4Z-D2 MY4ZIN-D2(S) MY4-CR MY4N-CR			6, 12, 24, 48, 100/110, 125 VDC		
MY4IN-CR(S) MY4Z-CR MY4ZN-CR MY4ZIN-CR(S)					

Engineering Data (Reference Value)





Contact voltage (V)











•Ambient Temperature vs. Must-operate and Must-release Voltage

MY2 AC Models

MY2(S)

10,000

5,000

3,000

1,000

500

300

100

50

30

10

n

MY4(S)

10,000

5.000

3,000

1,000

500

300

100

50

30

10

0

Number of operations (×10³ operations)

Number of operations (×10³ operations)



MY4 AC Models



MY2 DC Models



MY4 DC Models







Note: 1.

Make sure that the polarity is correct. The release time will increase, but the 20-ms specification for standard models is satisfied. Diode properties: The diode has a reversed dielectric strength of 1,000 V. Forward current: 1 A 2. 3.

Models with built-in CR circuit for coil surge absorption MY -CR With CR Without CR





Contact Reliability Test MY4Z-CBG (Modified Allen Bradley Circuit) Contact load: 5 VDC, 1 mA resistive load

Malfunction level: Contact resistance of 100 Ω



Common Specifications for MY2, MY3, MY4, MY4Z, MY-02, MY-F, and MY(S) Shock Malfunction



N = 20

Measurement: Shock was applied 3 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction. Criteria: Non-energized: 200 m/s², Energized: 200 m/s²

Shock direction



Dimensions



4. The operation indicator indicates the energization of the coil and does not represent contact operation.

MY3, MY3N, MY3-D, and MY3N-D2





Note: 1. An AC model has coil disconnection self-diagnosis.

For the DC models, check the coil polarity when wiring and wire all connections correctly. 2.

The indicator is red for AC and green for DC. 3.

4. The operation indicator indicates the energization of the coil and does not represent contact operation.





OMRON

Miniature Power Latching Relays

MYK

MYQ-MYH

Latching miniature power relays that retain contact operation status

- A low power consumption type that retains contacts using a magnetic lock system.
- Equipped with mechanical operation indicators to make operation status easy-to-see.

Refer to Safety Precautions on pages 54 to 55 and Safety Precautions for All Relays.

Features

Latching Relays MYK

Retains contact operation status.



NO contact turns on when voltage is applied to the set coil and stays on even if voltage stops being applied to the set coil. NO contact turns off when voltage is applied to the reset coil, after which NC contact will turn on.*

*MYK features a magnetic lock system.

Contact operation status can be seen at a glance thanks to the mechanical operation indicator.



Model Number Structure





(2) Number of poles/contacts 2: 2-pole, single

(4) Opti	ons, terminal type
None	e: Plug-in terminals
02:	PCB terminals

Ordering Information

When your order, specify the rated voltage.

Main unit

Plug-in terminals

(laceitication	Number of poles	Contacts	Model	Rated voltage	
Standard models (compliant with Electrical	2 Single		МҮ2К	12, 24, 100, 100/110 VAC	
Appliances and Material Safety Act)	2	Single		12, 24, 48 VDC	

PCB terminals

Classification	Number of poles	Contacte	Model	Rated voltage
Standard models (compliant with Electrical	2	Single	MY2K 02	24, 100 VAC
Appliances and Material Safety Act)	2	Single	MY2K-02	12, 24 VDC

MYK

MΥ

MYK

MY

MYK

Ratings and Specifications

Ratings

Operating coil

			Set coil			Reset coil			. .		Power consumption (VA, W)	
Rated	voltage (V)	Rated current (mA)		Coil resistance	Rated current (mA)		Coil resistance	Must operate voltage (V)	Must release voltage (V)	Maximum voltage (V)	Set coil	Reset coil
		50 Hz	60 Hz	(Ω)	50 Hz	60 Hz	(Ω)	vonage (v)	voltage (v)			
	12	57	56	72	39	38.2	130				to 0.9 to	Approx. 0.2
AC	24	27.4	26.4	320	18.6	18.1	550					to 0.5
	100	7.1	6.9	5,400	3.5	3.4	3,000	80% max.*	80% max.	110% max. of rated	(at 60 Hz)	(at 60 Hz)
	12	11	10	110	5	50	235	00 % IIIax.	ou /o max.	voltage	Approx. 1.3	Approx. 0.6
DC	24	5	2	470	2	25	940					
	48	2	7	1,800	1	6	3,000					

Note: 1. The rated current for AC is the value measured with a DC ammeter in half-wave rectification.

2. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil

3.

resistance. The AC coil resistance is a reference value only. Operating characteristics were measured at a coil temperature of 23°C. 4.

5. The maximum voltage capacity was measured at an ambient temperature of 23°C.
 *There is variation between products, but actual values are 80% maximum.

Contact Ratings

Number of poles (contact configuration)		2-pole (DPDT)				
Contact structure	Single					
Load	Resistive loadInductive load ($\cos \phi = 0.4$, L/R = 7					
Rated load	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC				
Rated carry current	3 A					
Maximum switching voltage	250 VAC, 125 VDC					
Maximum switching current	3 A					
Maximum switching power	660 VA 72 W 176 VA 36 W					
Contact material	Au plating + Ag					

Characteristics

Contact resist	ance*1	50 mΩ max.			
Set	Operate time*2	AC: 30 ms max., DC: 15 ms max.			
001	Minimum pulse width	AC: 60 ms, DC: 30 ms			
Reset	Release time*2	AC: 30 ms max., DC: 15 ms max.			
nesei	Minimum pulse width	AC: 60 ms, DC: 30 ms			
Maximum	Mechanical	18,000 operations/h			
switching frequency	Rated load	1,800 operations/h			
Insulation resi	istance*3	100 MΩ min.			
Dielectric	Between coil and contacts Between contacts of different polarity	1,500 VAC at 50/60 Hz for 1 min			
strength	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min			
	Between set/reset coils				
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)			
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)			
Shock	Destruction	1,000 m/s ²			
resistance	Malfunction	200 m/s ²			
Endurance	Mechanical	100,000,000 operations min. (switching frequency: 18,000 operations/h)			
Endurance	Electrical*4	200,000 operations min. (at rated load, switching frequency: 1,800 operations/h)			
Failure rate P	value (reference value)*5	1 mA at 1 VDC			
Ambient operating temperature*6		-55 to 60°C			
Ambient opera	ating humidity	5% to 85%			
Weight		Approx. 30 g			
		Approx. 30 g			

Note: The data shown above are initial values. *1. Measurement conditions: 1 A at 5 VI

1 A at 5 VDC using the voltage drop method. With rated operating power applied, not including contact bounce. For 500 VDC applied to the same location as for dielectric strength measurement.

Ambient temperature condition: 23°C

This value was measured at a switching frequency of 120 operations per minute.

 Measurement conditions:
 *2. Measurement conditions:
 *3. Measurement conditions:
 *4. Ambient temperature cond
 *5. This value was measured
 *6. With no icing or condensa With no icing or condensation.

Common Precautions

MYK

Engineering Data (Reference Value)

Maximum Switching Capacity MY2K(-02)



Magnetic Interference (External Magnetic Field) MY2K 24 VDC



Shock Malfunction MY2K 100 VAC



Endurance Curve









MYK(-02)

Number of operations (×10⁴ operations)

500

100

50

10



110 VAC inductive load $(\cos \varphi = 0.4)$

220 VAC inductive load

(cos φ = 0.4)

Contact current (A)

MYK

Dimensions



Miniature Power Sealed Relays ΜΥQ/ΜΥΗ

Sealed relays that are tough in environments where dust or corrosive gases, etc., are present

- Plastic sealed relays (MYQ) and hermetically sealed relays (MYH) that are resistant to effects from the surrounding environment
- Highly airtight structures that are tough in environments where corrosive gases such as chloride gas, sulfuric gas, and silicone gas are generated. They are also resistant to environments where salt damage is occurred and where dust is generated.
- Prevent relay contact failures via a highly airtight structure.

Refer to Safety Precautions on pages 54 to 55 and Safety Precautions for All Relays.



Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

MYK

ϺϒႭ·ϺϒΗ

MY

FL' (SP

Features

Highly Airtight Relays (Plug-in Terminals)

Seal performance	Degree of protection	Typical relay	Features
High	Hermetically sealed	МҮН	Sealing with metals, the glass case and base, etc. with inert gases (N2) inside makes it airtight structure which provides the external casing with durability against harmful corrosion, and prevents corrosive gases from intruding inside relays.
	Plastic sealed	MYQ	Structure that seals relays with the resin case and cover, etc., to prevent effects from corrosive environments.
Low	Closed type (cased)	MY, MY4Z-CBG	Relays in the case realize the structure that protects them from contact with foreign materials.

Plastic Sealed Relays: MYQ

These realize excellent reliability even in environments where salt damage occurs or where dust is generated.



Hermetically Sealed Relays: MYH

These realize excellent reliability even in environments where dust is generated or where corrosive gases (chloride gas, sulfuric gas, silicone gas, etc.) are present.



MYQ·MYH

MY

MYK

MYQ-M

Model Number Structure

Model Number Legend



(1) Basic model name

MY: Miniature Power Sealed Relays

(2) Contacts/seals

- Q4: 4-pole, single contacts, plastic sealed relays
- Q4Z: 4-pole, bifurcated contacts, plastic sealed relays
- 4H: 4-pole, single contacts, hermetically sealed relays
- 4ZH: 4-pole, bifurcated contacts, hermetically sealed relays

(3) Type

None: None

- N: With operation indicator* *Only MYQ (plastic sealed relay)
- (4) Options, terminal type
 - None: Plug-in terminals
 - 02: Plastic sealed relays, PCB terminals
 - 0: Hermetically sealed relays, PCB terminals

Ordering Information

When your order, specify the rated voltage.

Plastic Sealed Relays

Plug-in terminals

	No		Contacts			With operation indicator		
	Classification	of poles	Contacts	Model	Rated voltage	Model	Rated voltage	
	Standard models		Single	MYQ4	100/110, 110/120, 200/220, 220/240 VAC	MYQ4N	24, 100/110, 110/120, 200/220, 220/240 VAC	
	(compliant with				24 VDC		12, 24, 48, 100/110 VDC	
	Electrical Appliances and Material Safety Act)	(ot)	Bifurcated	MYQ4Z	100/110, 110/120, 200/220 VAC			
					12, 24 VDC			

PCB terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models		Single	MYQ4-02	50, 200/220, 220/240 VAC
(compliant with		Single	WIT Q4-02	24 VDC
Electrical Appliances	4	Bifurcated	MYQ4Z-02	100/110 VAC
and Material Safety Act)			IVI T Q4Z-02	24, 48 VDC

Hermetically Sealed Relays ●Plug-in terminals

Classification	Number of poles	Contacts	Model	Rated voltage	
Standard models (compliant with		Single	MY4H	24, 100/110, 110/120 VAC 12, 24, 48, 100/110 VDC	
Electrical Appliances	4	Bifurcated	MY4ZH	24, 100/110, 110/120 VAC	
and Material Safety Act)			WIT 4211	12, 24, 48, 100/110 VDC	

PCB terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models		Sinale	MY4H-0	110/120 VAC
(compliant with Electrical Appliances	4	Siligle	W1411-0	24 VDC
and Material Safety Act)		Bifurcated	MY4ZH-0	24, 100/110 VDC

Common Options (Order Separately)

MYQ·MYH

Ratings and Specifications

Operating coil

		Rated cur	rrent (mA)	Coil	Coil indu	ctance (H)		Maria		Power	
Rated	voltage (V)	50 Hz	60 Hz	resistance (Ω)	Armature OFF	Armature ON	Must operate voltage (V)*1	Must release voltage (V)*2	Maximum voltage (V)	consumption (VA, W)	Z
	24	53.8	46	180	0.69	1.3					~
	100/110	11.7/12.9	10/11	3,750	14.54	24.6			110% max. of	Approx. 0.9 to 1.3 (at 60 Hz)	
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30% min.			
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	91.07	80% max.				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4					
	12	7	5	165	0.734	1.37			Taled Vollage		
DC	24	36	6.9	650	3.2	5.72		10% min.			
DC	48	18	3.5	2,600	10.6	21.0	1	TU % MIN.		Approx. 0.9	
	100/110	9.1	/10	11,000	45.6	86.0					

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.

2.

The AC coil resistance and coil inductance values are for reference only. Operating characteristics were measured at a coil temperature of 23°C. 3.

4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

 There is variation between products, but actual values are 80% maximum. To ensure operation, apply at least 80% of the rated value.
 There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

Contact Ratings **Plastic Sealed Relays: MYQ**

Number of poles (contact configuration)	4-pole (4PDT)					
Contact structure	Single/b	ifurcated				
Load	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)				
Rated load	1 A at 220 VAC 1 A at 24 VDC	0.5 A at 220 VAC 0.5 A at 24 VDC				
Rated carry current	1 A					
Maximum switching voltage	250 VAC 125 VDC					
Maximum switching current	1 A					
Maximum switching power	220 VA 110 VA 24 W 12 W					
Contact material	Au plating + Ag					

Hermetically Sealed Relays: MYH

Number of poles (contact configuration)	4-pole (4PDT)							
Contact structure	Si	ngle	Bifu	rcated				
Load	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)				
Rated load	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC				
Rated carry current	3 A							
Maximum switching voltage	125 VAC 125 VDC							
Maximum switching current	3 A							
Maximum switching power	330 VA 72 W	88 VA 36 W	330 VA 72 W	88 VA 36 W				
Contact material	Au plating +	Ag						

MYK

Characteristics

	Model		MYQ	МҮН				
ΥM	Contact resistance*1		50 mΩ max.					
	Operate time*2		20 ms max.					
	Release time*2		20 ms max.					
	Maximum	Mechanical	18,000 operations/h					
	switching frequency	Rated load	1,800 operations/h					
	Insulation resistance*3		100 MΩ min.					
	Dielectric strength	Between coil and contacts	2,000 VAC at 50/60 Hz for 1 min	1,000 VAC at 50/60 Hz for 1 min				
ΜΥΚ ΜΥQ·ΜΥ		Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min	1,000 VAC at 50/60 Hz for 1 min				
		Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min	700 VAC at 50/60 Hz for 1 min				
	Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm doub	le amplitude)				
	resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)					
	Shock resistance	Destruction	1,000 m/s ²					
		Malfunction	200 m/s ²					
	Endurance	Mechanical	Single contacts: AC: 50,000,000 operations min., DC: 100,000,000 operations min. Bifurcated contacts: 5,000,000 operations min., DC: 5,000,000 operations min. (switching frequency: 18,000 operations/h)	Single contacts: 50,000,000 operations min. Bifurcated contacts: 5,000,000 operations min. (switching frequency: 18,000 operations/h)				
		Electrical*4	Single contacts: 200,000 operations min. Bifurcated contacts: 100,000 operations min. (at rated load, switching frequency: 1,800 operations/h)	Single contacts: 100,000 operations min. Bifurcated contacts: 50,000 operations min. (at rated load, switching frequency 1,800 operations/h)				
	Failure rate P Level (reference value)*5		Single contacts: 1 mA at 1 VDC Bifurcated contacts: 100 µA at 1 VDC	Single contacts: 100 µA at 1 VDC Bifurcated contacts: 100 µA at 100 mVDC				
	Ambient operating temperature*6		-55 to 60°C	-25 to 60°C				
	Ambient operating humidity		5% to 85%					
	Weight		Approx. 35 g	Approx. 50 g				

 Note:
 The data shown above are initial values.

 *1.
 Measurement conditions:
 1 A at 5 VDC using the voltage drop method.

 *2.
 Measurement conditions:
 With rated operating power applied, not including contact bounce.

*3. *4. *5. *6.

IntersectionWith rated operating power applied, not including contact bounce.Ambient temperature condition:23°CMeasurement conditions:For 500 VDC applied to the same location as for dielectric strength measurement.Ambient temperature condition:23°CThis value was measured at a switching frequency of 120 operations per minute.With no icing or condensation.

MYQ·MYH

Engineering Data (Reference Value)

Maximum Switching Capacity MYQ4(Z)



Endurance Curve

220 VAC

resistive load

24 VDC resistive load

220 VAC inductive load (cos $\phi = 0.4$)

MYQ4

500

operations)

Number of operations (x10⁴

50

10







Contact current (A) Note: The endurance of bifurcated contacts is one-half that of single contacts.

24 VDC inductive load (L/R = 7 ms)

H₂S Gas Data MYQ4



Shock Malfunction



N = 20

Measurement: Shock was applied 3 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction. Criteria: Non-energized: 200 m/s²

Shock direction





MYQ·MYH

Dimensions

Plug-in terminals



OMRON

MY/MYK/MYQ·MYH

Common Options (Order Separately)

Ordering Information

Front-mounting Sockets

Front-mounting Sockets								ΥM
Applicable relay model*1	Mounting Method	Conductive part protection	Terminal Type	al Type Applicable crimp terminal/ Electric wire M		Mode	Hold-down Clips/ Release Levers (Order Separately)	
		Available Option (Terminal cover sold separately) *3	Push-In Plus Terminal	Ferrules Solid wire Stranded wire	<u>NEW</u>	PYF-08-PU*2 * MY2Z□-CR, MY2□-CR 24 VAC cannot be used	With release lever * Hold by release lever	
	Mounted on a				NEW	PYF-08-PU-L*2		MYK
MY2⊟ MY2⊡(S) MY2Z□-CR	DIN track or with screws		Screw terminal (M3 screw size)	Forked terminals Solid wire Stranded wire	NEW	PYFZ-08-E*4	MY2⊡: PYC-A1 MY2IN(S): PYC-E1 MY2Z⊡-CR, MY2⊡-CR 24 VAC: Y92H-3	X
MY2ZU-CR				Round terminals Forked terminals Solid wire Stranded wire	NEW	PYFZ-08 * Terminal cover: PYCZ-C08		
	Mounted on a DIN track	Available	Screwless terminal (Clamp method)	Solid wire Stranded wire		PYF08S	PYCM-08S * MY2Z□-CR, MY2□-CR 24 VAC cannot be used * Hold by release lever	ϺϒϘ·ϺϒΗ
	Screw mounting only	None	Screw terminal (M3.5 screw size)	Round terminals Forked terminals Solid wire Stranded wire		PYF08M	PYC-P (MY2 Only) * MY2 - CR 24 VAC cannot be used	
MY3	Mounted on a DIN track or with screws	None	Screw terminal (M3 screw size)	Round terminals Forked terminals Solid wire Stranded wire		PYF11A	PYC-A1	Common C

 The applicable relay model is a plug-in terminal type.
 There are screw mounting holes in the DIN hooks on the PYF- PU and P2RF- PU. Pull out the DIN hook tabs to mount the Sockets with screws.
 Terminal cover type is PYCZ-C08. (Order Separately) For details, refer to the For Screw Terminal Sockets (PYFZ-08/PYFZ-14) Terminal covers on page 43. *2. *3.

*4. The finger-protection type (PYFZ-D-E) is a type in which the terminal cover is integrated into the socket. Round terminals cannot be used. Use forked terminals or ferrules instead.

MY/MYK/MYQ·MYH

	Applicable relay model*1	Mounting Method	Conductive part protection	Terminal Type	Applicable crimp terminal/ Electric wire	Appearance	Mode	Hold-down Clips/ Release Levers (Order Separately)
ΥM	MY4 MY4 (S) MY4 H MYQ4 MY4Z -CBG-CR MY2K	Mounted on a DIN track or with screws	Available Option (Terminal cover sold separately) *3	Push-In Plus Terminal	Ferrules Solid wire Stranded wire	<u>NEW</u>	PYF-14-PU*2 * MY4Z□-CBG-CR, MY4-CR 24 VAC, MY4N-CR 24 VAC/115 VAC cannot be used	With release lever * Hold by release lever
]						NEW	PYF-14-PU-L*2	MY4Z□-CBG-CR, MY4-CR 24 VAC, MY4N-CR 24 VAC/115 VA Y92H-3 Other than those above: PYC-A1
МҮК				– Screw terminal (M3 screw size)	Forked terminals Solid wire Stranded wire	NEW	PYFZ-14-E*4	
					Round terminals Forked terminals Solid wire Stranded wire	<u>NEW</u>	PYFZ-14 * Terminal cover: PYCZ-C14	
N		Mounted on a DIN track		Screwless terminal (Clamp method)	Solid wire Stranded wire		PYF14S	PYCM-14S * MY4Z□-CBG-CR, MY4-CR 24 VAC, MY4N-CR 24 VAC/115 VAC cannot be used * Hold by release lever
ϺϒϘ·ϺϒΗ		Mounted on a DIN track or with screws	None	Screw terminal (M3.5 screw size)	Round terminals Forked terminals Solid wire Stranded wire		PYF14T	MY4Z□-CBG-CR: Y92H-3 Other than those above: PYC-A1

The applicable relay model is a plug-in terminal type.
 There are screw mounting holes in the DIN hooks on the PYF---PU and P2RF---PU. Pull out the DIN hook tabs to mount the Sockets with screws.
 Terminal cover type is PYCZ-C14. (Order Separately) For details, refer to the *For Screw Terminal Sockets (PYFZ-08/PYFZ-14) Terminal covers* on page 43.
 The finger-protection type (PYFZ---E) is a type in which the terminal cover is integrated into the socket. Round terminals cannot be used. Use forked terminals or ferrules instead.
Applicable relay model*1	Terminal Type	Hold-down Clips	Appearance	Mode	
	Solder terminals			PY08	MY
MY2□ MY2□(S)	Wrapping terminals Terminal length: 25 mm	Accessories (Order Separately) - * MY2Z□-CR: PYC-1		PY08QN	
MY2Z□-CR	Wrapping terminals Terminal length: 20 mm	Other than those above: PYC-P		PY08QN2	_
	PCB terminals			PY08-02	МҮК
	Solder terminals			РҮ08-Ү1	
MY2⊡ MY2⊡(S)	Wrapping terminals Terminal length: 25 mm			PY08QN-Y1	MYQ·MYH
	Wrapping terminals Terminal length: 20 mm	With Hold-down Clips*2		PY08QN2-Y1	Common Option
	Solder terminals			РҮ08-Ү3	Common Options (Order Separately)
MY2Z⊡-CR	Wrapping terminals Terminal length: 25 mm			PY08QN-Y3	Common Preca

*1. The applicable relay model is a plug-in terminal type.
*2. The hold-down clips for connecting the relay and socket come as a set with the socket.

	Applicable relay model*1	Terminal Type	Hold-down Clips	Appearance	Mode		
ΥM	MY2Z□-CR	Wrapping terminals Terminal length: 20 mm	With Hold-down Clips*2		PY08QN2-Y3		
			Accessories (Order Separately) * PYC-P		PY11		
МҮК		Solder terminals	With Hold-down Clips*2		РҮ11-Ү1		
			Accessories (Order Separately) * PYC-P		PY11QN		
МҮQ·МҮН	MY3□	Wrapping terminals Terminal length: 25 mm	With Hold-down Clips*2		PY11QN-Y1		
Cor			Accessories (Order Separately) * PYC-P		PY11QN2		
Common Options (Order Separately)		Wrapping terminals Terminal length: 20 mm	With Hold-down Clips*2		PY11QN2-Y1		
arately)		PCB terminals	Accessories (Order Separately) * PYC-P		PY11-02		
Comm	MY4□ MY4□(S) MY4□H	Solder terminals	Accessories (Order Separatelv)		PY14		
Common Precautions	MYQ4⊟ MY4Z⊡-CBG-CR MY2K	Wrapping terminals Terminal length: 25 mm	Accessories (Order Separately) * MY4Z□-CBG-CR: PYC-1 Other than those above: PYC-P		PY14QN		
tions	 *1. The applicable relay model is a *2. The hold-down clips for connect 	a plug-in terminal type. cting the relay and socket come	e as a set with the socket.				

Applicable relay model*1	Terminal Type	Hold-down Clips	Appearance	Mode	
MY4□ MY4□(S) MY4□H MYQ4□ MY4Z□-CBG-CR	Wrapping terminals Terminal length: 20 mm	Accessories (Order Separately) * MY4Z□-CBG-CR: PYC-1 - Other than those above: PYC-P		PY14QN2	ΥM
MY2K	PCB terminals			PY14-02	
	Solder terminals			PY14-Y1	МҮК
MY4□ MY4□(S) MYQ4□ MYQ4□ MY2K	Wrapping terminals Terminal length: 25 mm			PY14QN-Y1	K
	Wrapping terminals Terminal length: 20 mm			PY14QN2-Y1	MYQ·MYH
	Solder terminals	- With Hold-down Clips*2		PY14-Y3	Common Opti
MY4Z⊡-CBG-CR	Wrapping terminals Terminal length: 25 mm			PY14QN-Y3	Common Options (Order Separately)
*1. The applicable relay model is	Wrapping terminals Terminal length: 20 mm			PY14QN2-Y3	Common Precautions
*1. The applicable relay model is*2. The hold-down clips for connection	ecting the relay and socket come	e as a set with the socket.			ns

	Hold-down Clip					
	Appearance*1	Model*2	Weight*3	Application		
ΥM		РҮС-А1	Approx. 0.54 g			
		PYC-E1	Approx. 0.6 g	For connecting relays and sockets		
		РҮС-Р	Approx. 1.4 g			
MYK		PYC-S	Approx. 1.8 g	For connecting sockets, socket mounting plates, and relays		
YM		Y92H-3*4	Approx. 0.7 g	For connecting models with built-in CR circuit for coil surge absorption		
МҮQ-МҮН		PYC-1*5	Approx. 6 g	─ (MY2Z□-CR) and sockets		

*1. The appearance shown is one in which the relay, socket, and hold-down clip are assembled.
*2. Hold-down clips are used in sets of two. However, PYC-P and PYC-1.
*3. The weight shown above is the weight for one hold-down clip.
*4. MY2-CR 24 VAC, MY2N-CR 24 VAC, MY4-CR 24 VAC and MY4N-CR 24 VAC/115 VAC use in combination with hold-down clip Y92H-3.
*5. MY2-CR 24 VAC, MY2N-CR 24 VAC, MY4-CR 24 VAC and MY4N-CR 24 VAC/115 VAC use in combination with hold-down clip PYC-1.

40

•Front-connecting Socket Accessories For Push-In Plus Terminal Sockets (PYF-08-PU(-L)/PYF-14-PU(-L)) Short Bars

Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	L (Length)	Insulati on color	Model*1
			3.90	2	15.1		PYDN-7.75-020
		Bridging contact		3	22.85		PYDN-7.75-030
	7.75 mm	terminals (common)		4	30.6	Red (R)	PYDN-7.75-040
PYF-08-PU(-L)				20	154.6		PYDN-7.75-200
PYF-14PU(·L)	31.0 mm	For Coil terminals	3.90 3.90 18.5 2.25 224.35 	8	224.35	Blue (S) Yellow(Y)	PYDN-31.0-080

*1. Replace the box (\Box) in the model number with the code for the covering color. \Box Color selection: R = Red, S = Blue, Y = Yellow

Labels

Applicable sockets	Model
PYF-08-PU(-L)	XW5Z-P4.0LB1
PYF-14PU(-L)	(1 sheet/60 pieces)

For Screwless Terminal Sockets (PYF08S/PYF14S)

Short Bars

Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	Insulati on color	Model*1
PYF08S	19.7 mm	For bridging		2	Red (R)	PYDM-08S □ (50 pcs./bag)
PYF14S	27.5 mm	coils between sockets	1.2-dia Pitch	2	Blue (B)	PYDM-14S □ (50 pcs./bag)

*1. Replace the box (\Box) in the model number with the code for the covering color. \Box Color selection: R = Red, B = Blue

Labels

Applicable sockets	Model
PYF08S	R99-11
PYF14S	(100 pcs./bag)

Release Levers

Applicable sockets	Shape/external dimensions	Model
PYF08S		PYCM-08S
PYF14S		PYCM-14S

For Screw Terminal Sockets (PYFZ-08/PYFZ-14) Short Bars

ΥM	Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	Insulation color	Model*1
					2		PYD-025B⊡ (2P) (10 pcs./bag)
MYK	PYFZ-08	22 mm	For bridging		8	B (Black)	PYD-085B⊡ (8P) (10 pcs./bag)
	29 mn	adjacent sockets	adjacent		2	S (Blue) R (Red)	PYD-026B□ (2P) (10 pcs./bag)
MYQ-MYH		29 mm			8		PYD-086B⊡ (8P) (10 pcs./bag)
Common Option			For bridging		2	B (Black)	PYD-020B⊡ (2P) (50 pcs./bag)
Options (Order Separately)		7 mm	with the same socket		3	Y (Yellow)	PYD-030B⊡ (3P) (10 pcs./bag)

*1. Replace the box (\Box) in the model number with the code for the covering color.

For Screw Terminal Sockets (PYFZ-08/PYFZ-14) **Terminal covers**

Applicable sockets	Appearance	Model
PYFZ-08		PYCZ-C08 (2 pcs/set)
PYFZ-14		PYCZ-C14 (1 pcs/set)

Note: These covers cannot be used for PYF08A and PYF14A.

Dimensions with terminal cover

PYCZ-C08









Socket Mounting Plates (For Back-connecting Socket PY //Solder Terminals, PY QN(2)/Wrapping Terminals)

	Applicable Sockets	Socket Mounting Plates			
Model	Models with hold-down clips	Appearance	Number of sockets	Model	
PY08 PY08QN	PY08-Y1, PY08-Y3 PY08QN-Y1, PY08QN-Y3	Û	1	PYP-1	
PY08QN2 PY11 PY11QN PY11QN2	PY08QN2-Y1, PY08QN2-Y3 PY11-Y1 PY11QN-Y1 PY11QN2-Y1		18	PYP-18*	
PY14 PY14QN PY14QN2	PY14-Y1, PY14-Y3 PY14QN-Y1, PY14QN-Y3 PY14QN2-Y1, PY14QN2-Y3		36	PYP-36*	

*You can cut the PYP-18 and PYP-36 to any required length.

Parts for Track Mounting

Туре		Appearance	Model
	1 m		PFP-100N
DIN Tracks	0.5 m		PFP-50N
End Plate*		Contraction of the second	PFP-M
Spacer			PFP-S

Note: The track conforms to DIN standards. *When mounting DIN track, please use End Plate (Model PFP-M).

OMRON

MY

MYK

MYQ·MYH

Ratings and Specifications

Characteristics

Sockets

\leq								Di	electric stren	gth				
ΥM	Model	Connection	Number of pins	Terminal Type	Ambient operating temperature	Ambient operating humidity	Continuous carry current	Between contact terminals of same polarity	Between contact terminals of different polarity	Between coil and contact terminals	Insulation resistance *1	Weight		
	PYF-08-PU			Push-In Plus Terminal	Push-In Plus Terminal -40 to 70°C		10 A*2	2,000 VAC	2,000 VAC	2,000 VAC		Approx. 80 g		
	PYF08S			Screwless terminal			10 A 2	for 1 min	for 1 min	for 1 min		Approx. 46 g		
	PYFZ-08		8				10 A	2,250 VAC	2,250 VAC	2,250 VAC		Approx. 32 g		
	PYFZ-08-E		_	Screw terminal	55 to 7000			for 1 min	for 1 min	for 1 min		Approx. 32 g		
	PYF08M				–55 to 70°C		5 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min		Approx. 26 g		
	PYF11A	Front	11	Screw terminal			5 A	2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min	1,000 MΩ min. (500 VAC)	Approx. 43 g		
	PYF-14-PU			Push-In Plus Terminal	-40 to 70°C		6 A	2,000 VAC	2,000 VAC	2,000 VAC	(000 170)	Approx. 87 g		
2	PYF14S			Screwless terminal			5 A	for 1 min	for 1 min	for 1 min		Approx. 62 g		
MYK	PYFZ-14		14				6 A	2,250 VAC	2,250 VAC	2,250 VAC		Approx. 50 g		
X	PYFZ-14-E			Screw terminal	–55 to 70°C		U.A.	for 1 min	for 1 min	for 1 min		Approx. 50 g		
	PYF14T						3 A	2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min		Approx. 53 g		
	PY08											Approx. 8 g		
	PY08-Y1			Solder terminals Wrapping terminals								Approx. 9 g		
	PY08-Y3											Approx. 9 g		
	PY08QN											Approx. 12 g		
	PY08QN-Y1	8	(Terminal length:			7 A	1,500 VAC	1,500 VAC	1,500 VAC	100 MΩ	Approx. 13 g			
	PY08QN-Y3			Wrapping terminals (Terminal length:			10	for 1 min	nin for 1 min	for 1 min	min.	Approx. 13 g		
	PY08QN2					5% to						Approx. 11 g		
\leq	PY08QN2-Y1	_				85%						Approx. 12 g		
\leq	PY08QN2-Y3	_		20 mm)							Approx. 12 g			
MYQ-MYH	PY08-02	_		PCB terminals								Approx. 7 g		
S	PY11	_		Solder terminals								Approx. 9 g		
\leq	PY11-Y1	-		11									Approx. 10 g	
T	PY11QN				11	Wrapping terminals			1	1,500 VAC	1,500 VAC	1,500 VAC	100 MΩ	Approx. 13 g
	PY11QN-Y1	Back				(Terminal length: 25 mm)	–55 to 70°C		5 A	for 1 min	for 1 min	for 1 min	min.	Approx. 14 g
	PY11QN2	-		Wrapping terminals (Terminal length: 20 mm)								Approx. 12 g		
	PY11QN2-Y1	-		、 、 ,	-							Approx. 13 g		
	PY11-02 PY14	-		PCB terminals	1							Approx. 8 g		
8	PY14 PY14-Y1	-		Solder terminals								Approx. 10 g		
mm	PY14-Y1 PY14-Y3	-		Soluer terminals								Approx. 11 g Approx. 11 g		
lon	PY14QN	-										Approx. 11 g		
မ္မ	PY14QN-Y1	1		Wrapping terminals (Terminal length:				1,500 VAC	1,500 VAC	1.500 VAC	100 MΩ	Approx. 14 g		
Common Options (Order Separ	PY14QN-Y3	1	14	25 mm)			3 A	for 1 min	for 1 min	for 1 min	min.	Approx. 15 g		
าร (PY14QN2	1			-							Approx. 13 g		
Ord	PY14QN2-Y1			Wrapping terminals (Terminal length:								Approx. 10 g		
er (PY14QN2-Y3			(Terminal length: 20 mm)								Approx. 14 g		
Sep	PY14-02	1		PCB terminals	1							Approx. 9 g		
ar			I	32 101100	1	1	1	L	1	1	1			

*1. *2. *3.

For 500 VDC applied to the same location as for dielectric strength measurement. The carrying current of 10 A is for an ambient temperature of 55°C or below. At an ambient temperature of 70°C, the value is 7 A. This model is a set including a socket and relay hold-down clips. This weight shown is the total including the socket and relay hold-down clips.

Socket Accessories •For Front-connecting Sockets Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
		PYDN-7.75-020			
	PYF-08-PU(-L)	PYDN-7.75-030	20 A	40 to 70°C	E% to 95%
	PYF-14-PU(-L)	PYDN-7.75-040	20 A	-40 to 70°C -40 to 70°C (with no icing or condensation)	5% to 85% 45% to 85% (with no icing or condensation)
		PYDN-7.75-200			
Bridging contact terminals (common)	PYFZ-08 PYFZ-14	PYD-025B			
		PYD-085B			
		PYD-026B□	20 A		
		PYD-086B	(However, 18 A when 70°C)		
		PYD-020B	, ,		
		PYD-030B			
	PYF-08-PU(-L) PYF-14-PU(-L)	PYDN-31.0-080	20 A	-40 to 70°C	5% to 85%
For Coil terminals	PYF08S	PYDM-08S	10 A	-40 to 70°C	5% to 85%
	PYF14S	PYDM-14S	10 A	-40 to 70°C	5% to 85%

Certified Standards ●CSA certification (File No. LR031928)

Model	Ratings	Class number	Standard number
PYF-08-PU	10 A, 250 V		
PYF-14-PU	6 A, 250 V*	3211 07 CSA C22.2 N	
PYF08S	10 A, 250 V		
PYF14S	5 A, 250 V		CSA C22.2 No14
PYFZ-08(-E)	10 A, 250 V		00A 022.2 NOT4
PYFZ-14(-E)	6 A, 250 V		
PY□ PYF□A	7 A, 250 V		

*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

•UL certification (File No. E87929)

Model	Ratings	Standard number	Category	Listed/Recognized
PYF-08-PU	10 A, 250 V			
PYF-14-PU	6 A, 250 V*			
PYF08S PYF14S	10 A, 250 V	111 500		
PYFZ-08(-E)	10 A, 250 V	- UL508	SWIV2	Recognition
PYFZ-14(-E)	6 A, 250 V			
PY□ PYF□A	7 A, 250 V			

*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

•TÜV Rheinland certification

Model	Ratings	Standard number	Certification No.
PYF-08-PU	10 A, 250 V*		R50327595
PYF-14-PU	6 A, 250 V	EN 61984	n50527595
PYFZ-08(-E)	10 A, 250 V	EN 01904	B50405329
PYFZ-14(-E)	6 A, 250 V		N30403323

*Ratings are for an ambient temperature of 55°C or below. At an ambient temperature of 70°C, the value is 7 A.

VDE certification

Model	Standard number	Certification No.
PYF08S	VDE0627 (EN61984)	40015509
PYF14	VDE0027 (EN01904)	40015509

Dimensions

Height with Socket



Back-connecting Sockets

• Solder terminals/wrapping terminals (PY□)











* The PYF-14-PU-L Sockets do not have release levers.



Common Options (Order Separately)

48





Common Options (Order Separately)

50





OMRON



53

Safety Precautions

Relays

Be sure to read the *Safety Precautions for All Relays* in the website at the following URL: http://www.ia.omron.com/product/cautions/36/safety_precautions.html

Warning Indications

	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.

Meaning of Product Safety Symbols

\triangle	 General caution Indicates the possibility of non-specified general cautions, warnings, and danger. 			
	• Electric shock caution Used to warn of the risk of electric shock under specific conditions.			
	 High temperature caution Indicates the possibility of injuries by high temperature under specific conditions. 			
<u>∧</u> CAUTION				

Do not touch terminal sections (i.e., current-carrying parts) while power is being supplied.

Also, always mount the terminal cover.



Touching current-carrying parts may result in electric shock.

Do not touch the main unit while power is being supplied or immediately after the power supply has been turned OFF. The main unit will be extremely hot and may result in burns.



Precautions for Correct Use

Handling

For models with a built-in operation indicator, models with a built-in diode, or high-sensitivity models, check the coil polarity when wiring and wire all connections correctly (DC operation).

Installation

 There is no specifically required installation orientation, but make sure that the Relays are installed so that the contacts are not subjected to vibration or shock in their movement direction.



• Use two M3 screws to mount the case-surface mounting (MY□F) and tighten them securely. (Appropriate tightening torque: 0.98 N·m)

Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

Applicable Sockets

Use only combinations of OMRON Relays and Sockets.

Attaching and Removing Relay Hold-down Clips

When you attach a Hold-down Clip to or remove it from a Socket, wear gloves or take other measures to prevent injuring your fingers on the Hold-down Clip.

Compliance with Electrical Appliances and Material Safety Act

- MY standard models comply with the Electrical Appliances and Material Safety Act.
- Always protect any exposed terminals (including Socket terminals) after wiring with insulation tubes or resin coating on PCBs.

Model	Number of poles	Operating Coil ratings	Contact ratings
MY	1 2 3	6 to 220 VAC 6 to 120 VDC	5 A, 200 VAC
	4*	6 to 110 VAC 6 to 120 VDC	3 A, 115 VAC

*Under the Electrical Appliances and Material Safety Act, do not use the Type 4 model with a voltage that exceeds 150 VAC. However, this restriction can be ignored if compliance with the Electrical Appliances and Material Safety Act is not required.

Miniature Power Relays: MY

Latching Levers

- Turn OFF the power supply when operating the latching lever.
- After you use the latching lever always return it to its original state.
- Do not use the latching lever as a switch.
- The latching lever can be used for 100 operations minimum.

About the Built-in Diode and CR Elements

The diode or CR element that are built into the Relay are designed to absorb the reverse voltage from the Relay coil. If a large surge in voltage is applied to the diode or CR element from an external source, the element will be destroyed.

If there is the possibility of large voltage surges that could be applied to the elements from an external source, take any necessary surge absorption measures.

Using Microloads with Infrequent Operation

If any standard MY-series Relays (e.g., MY4) are used infrequently to switch microloads, the contacts may become unstable and eventually result in failure contact. In this case, we recommend using the MY4Z-CBG Series, which has high contact reliability for microloads.

Common Options (Order Separately)

MYQ·MYH

•Latching Relays (MYK)

• For applications that use a 200 VAC power supply, connect external resistors Rs and Rr to a 100 VAC Relay.



- Do not apply a voltage to the set and reset coils at the same time. If you apply the rated voltage to both coils simultaneously, the Relay will be set.
- The minimum pulse width in the performance column is the value for the following measurement conditions: an ambient temperature of 23°C with the rated operating voltage applied to the coil. Satisfactory performance may be unattainable due to decreased holding strength caused by changes in circuit conditions and ambient operating temperature, or due to changes caused by product aging.

During actual use, apply a pulse width of the rated operating voltage suitable for the actual load to the coil and reset this at least once per year as a means of dealing with product aging.

Optional Sockets (Order Separately)

Be sure to read the *Safety Precautions for All Relay*s in the website at the following URL: http://www.ia.omron.com/product/cautions/36/safety_precautions.html

Front-connecting Sockets

Push-In Plus Terminal Sockets (PYF-08-PU(-L), PYF-14-PU(-L))

Refer to Safety Precautions on the Push-In Plus Terminal Block Socket PYF-D-PU/P2RF-D-PU Data Sheet (Catalog No. SGFR-218).

Screwless Terminal Sockets (PYF08S, PYF14S)

Refer to Safety Precautions on the Screwless Terminal Socket PYF S/P2RF-S Data Sheet (Catalog No. CDRR-011).

•Screw Terminal Sockets (PYFZ-08(-E), PYF08M, PYF11A, PYFZ-14(-E), PYF-14T)

Be sure to read the Safety Precautions for All Relays, 4-2-1 Panel-mounting Sockets and 4-2-2 Relay Removal Direction of the website at the following URL: http://www.ia.omron.com/product/cautions/36/safety_precautions.html

- Use the following tightening torque for screws during wiring.
- Use the following wire diameters as a guide for wiring. (Select the appropriate wire diameter for the current used.)

				,
Model	Tightening torque	Model	Recommen	ded wire diameter (mm ²)
PYFZ-08 PYFZ-14	0.78 to 1.18 N·m	PYFZ-08 PYFZ-14	Stranded wire	0.75 to 2.5 mm ² AWG 18 to 14
PYF08A PYF14A		PYF08A PYF14A	Solid wire	0.75 to 1.5 mm ² AWG 18 to 16
PYFZ-08-E PYFZ-14-E	0.59 to 0.88 N·m	PYFZ-08-E PYFZ-14-E	Z-14-E Stranded wire	0.75 to 2.5 mm ² AWG 18 to 14
PYF08A-E PYF14A-E	* Use a No. 1 screwdriver.	PYF08A-E PYF14A-E	Solid wire	0.75 to 1.5 mm ² AWG 18 to 16

Back-connecting Socket

•Solder Terminal Sockets (PY08(-Y1/-Y3), PY11(-Y1/-Y3))

Wrapping Terminals Sockets (PY08QN(-Y1/-Y3), PY08QN2(-Y1/-Y3), PY11QN(-Y1), PY11QN2(-Y1)) PCB Terminal Sockets (PY08-02, PY11-02)

Be sure to read the *Safety Precautions for All Relays*, 4-2-3 *Back-connecting Sockets* and 4-2-5 *Terminal Soldering* of the website at the following URL: http://www.ia.omron.com/product/cautions/36/safety_precautions.html

NΝ

Refer to the external dimensions of the Relay and design the PCB pattern with enough space to prevent this problem.

When a Relay with PCB Terminals is mounted, a short-circuit can occur depending on the design of the PCB pattern because the Relay

Hermetically Sealed Relays (MYH/MYQ)

Application Environments

Relays with PCB Terminals

itself is made out of metal.

Solution

Humid environments can cause insulation problems, which may result in short-circuiting or unintended operation. **Solution**

Do not use these Relays in any environment where the Relay will come into contact with water vapor, condensation, or water droplets. This can reduce the surface tension of the terminal insulating beads and cause short-circuiting or unintended operation due to insulation problem.

	MEMO
ΥM	
~	
Ξ	
MYK	
_	
≤ Y	
Q	
ϺϒϘ·ϺϒΗ	
¥	
- -	
S	
mmo	
Common Options (Order Separately)	
ptio	
ns (
Orde	
sr Se	
par	
ately	
3	
S	
Common Precautions	
mo	
ň	
Pre	
eC3	
ut	
ion	
S	

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation Industrial Automation Company Kyoto, JAPAN Contact: www.ia.omron.com

Authorized Distributor:

© OMRON Corporation 2018-2021 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. CSM_10_10 Cat. No. J219-E1-09 0721 (0618) (O)

■ Track-mounted Screwless Clamp Terminal Sockets

Item	Model	
	4-pole	2-pole
Socket	PYF14S	PYF08S
Clip & release lever	PYCM-14S	PYCM-08S
Nameplate	99-11 nameplate for MY	
Socket bridge	PYDM-14SR, PYDM-14SB	PYDM-08SR, PYDM-08SB

Note: For complete specifications, see the datasheet at Omron's Knowledge Center on our website: www.knowledge.omron.com.

Sockets

Poles Front-connecting socket (DIN-track/screw mounting)		Back-connecting so	necting socket		
		Solder terminals		PCB terminals	
		Without clip	With clip		
2	PYF08A-E	PY08	PY08-Y1	PY08-02	
	PYF08A-N				
4	PYF14A-E	PY14	PY14-Y1	PY14-02	
	PYF14A-N				

■ Socket Specifications

Item	Pole	Model	Carry current	Dielectric withstand voltage	Insulation resistance (see note 2)
Screwless clamp	2	PYF08S	10 A	2,000 VAC, 1 min	Less than 1,000 M Ω
terminal socket	4	PYF14S	5 A		
Track-mounted	2	PYF08A-E	7 A	2,000 VAC, 1 min	1,000 MΩ min.
socket		PYF08A-N (see note 3)	7 A (see note 4)		
	4	PYF14A-E	5 A		
		PYF14A-N (see note 3)	5 A (see note 4)		
Back-connecting	2	PY08(-Y1)	7 A	1,500 VAC, 1 min	100 MΩ min.
socket		PY08-02			
	4	PY14(-Y1)	3 A		
		PY14-02			

Note: 1. The values given above are initial values.

2. The values for insulation resistance were measured at 500 V at the same place as the dielectric strength.

3. The maximum operating ambient temperature for the PYF08A-N and PYF14A-N is 55°C.

- 4. When using the PYF08A-N or PYF14A-N at an operating ambient temperature exceeding 40°C, reduce the current to 60%.
- 5. The MY2(S) can be used at 70°C with a carry current of 7 A.

Socket Hold-down Clip Pairing

Relay type	Poles		Front-connecting socket (DIN-track/screw mounting)		Back-connecting socket			
		(DIN-track/sc			Solder terminals		PCB terminals	
		Socket	Clip	Socket	Clip	Socket	Clip	
Without 2-pole	2	PYF08A-E	PYC-A1	PY08	PYC-P	PY08-02	PYC-P	
test button		PYF08A-N			PYC-P2		PYC-P2	
Without 2-pole	4	PYF14A-E	PYC-A1	PY14	PYC-P	PY14-02	PYC-P	
test button		PYF14A-N			PYC-P2		PYC-P2	
2-pole test button	2	PYF08A-E	PYC-E1	PY08	PYC-P2	PY08-02	PYC-P2	
		PYF08A-N						

Mounting Plates for Sockets

Socket model	For 1 socket	For 18 sockets	For 36 sockets
PY08, PY14	PYP-1	PYP-18	PYP-36

Note: PYP-18 and PYP-36 can be cut into any desired length in accordance with the number of Sockets.

■ DIN Rail Track and Accessories

Description	Model
Mounting rail (length = 500 mm)	PFP-50N
Mounting rail (length = 1,000 mm)	PFP-100N, PFP-100N2
End Plate	PFP-M
Spacer	PFP-S

■ Dimensions

Unit: mm (inch)





Note: Use a panel with plate thickness of 1 to 2 mm for mounting the Sockets.

DIN rail mounted sockets PYF 14-ESN/-ESS

Versatile Socket which can be used with the MY2 and MY4 relays

- Rising up terminals, easy labelling and quick connection
- Double terminal numbering
- Operating temperatures -40 to to 85 °C
- Rated current 12A @ 300V
- Insulation voltage > 3kV
- Conforms to relevant International standards
- PYF14-ESS: Output terminals separate from input terminals



Ordering Information

Model	Applicable relays ^{*1}
PYF 14-ESN	MY2 / MY4 Relays
PYF 14-ESS	MY2 / MY4 Relays

*1) H3Y timers can also be fitted into these sockets. For information about the timers please refer to appropriate data sheet

Model	Description
PYC-0	Metal spring clip (Used with Relay only)
PYC 35	Plastic holding clip (Used with Relay only)
PYC TR1	Thermoplastic writeable label

Technical Specification

Model	PYF 14-ESN / PYF 14-ESS
Electrical Data	
Rated Voltage	300V
Rated current	12A
Dielectric strength	>3kV
Insulation resistance	> 5MΩ
Insulation group	C250 to VDE 0110
Creepage & clearance distance	Compliant with VDE 0110
Tracking resistance	500V
Protection category	IP 20 B (EN60529)
Thermal Data	
Ambient Temp Specification	
Operating	-40 °C to +85 °C
With Thermoplastic Clip	-25 °C to +85 °C
With Metal clip	-40 °C to +85 °C
Mechanical Data	
Material of socket (body)	Thermoplastic PA 6+GF - V2
Material of socket (Contact)	Cu Zn 33 (contact surface 5 micron tin plated)
Material of socket (Terminal)	8 micron zinc plated steel
Material of socket (screw)	5 micron nickel plated 8.8 steel
Materials of clips:	
- PYC-35 (plastic)	Thermoplastic PA 6+GF-V2
- PYC-0 (metal)	X Cr - Ni Stell
Material of label - PYC-TR1	Thermoplastic PA 6+GF-V2

Model	PYF 14-ESN / PYF 14-ESS
Max Screw Torque	0.8Nm
Max wire section	
Compact	2 x 2.5mm
Flexible	2 x 2.5mm
Cable end	2 x 1.5mm
Wire strip length	5 to 8mm
Double Terminal Numbering	DIN 46199, IEC67
Mounting	EN 50022 Din rail, Central Screw M4, Board Back or protrude 2 screws M3
Compliance with Standards	
CE, UL, CSA, VDE EN 61984	

Dimensions

(All units are in millimetres unless otherwise indicated)

PYF 14-ESN





Label



PYF 14-ESS





27



Cat. No. J01E-EN-01A

In the interest of product improvement, specifications are subject to change without notice.

OMRON EUROPE B.V.

Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands Phone: +31 23 568 13 00 Fax: +31 23 568 13 88 www.eu.omron.com



Specifications

Mechanical data	Max. torque on the screws	0.8 Nm		
	Wire section solid and stranded	Min. 0.5 mm ² – AWG 20		
		Max 2.5 mm ² – AWG 14		
	Weight	70 g		
Wire strip	Length	6 – 7 mm		
Electrical data	Terminal protection degree	IP 20		
	Rated voltage IEC	300 VAC		
	Rated current IEC	12 A		
	Rated voltage UL	300 VAC		
	Rated current UL	10 A (or 12 A at 150 VAC)		
Thermal data	Operating temperatures	−25°C + 85°C		
Conformity		RoHS compliant (Directive 2011/65/EU and Delegated Directive 2015/863)		

Wire locking systems



Electrical scheme



Dimensions



Approvals



Although we strive perfection, Omron and/or its subsidiary and affiliated companies do not warrant or make any representations regarding the correctness or completeness of the information described in the document. We reserve the right to make any changes at any time without prior notice





Specifications

Mechanical data	Max. torque on the screws	0.8 Nm		
	Wire section solid and stranded	Min. 0.5 mm ² – AWG 20		
		Max 2.5 mm ² – AWG 14		
	Weight	66 g		
Wire strip	Length	6 – 7 mm		
Electrical data	Terminal protection degree	IP 20		
	Rated voltage IEC	300 VAC		
	Rated current IEC	12 A		
	Rated voltage UL	300 VAC		
	Rated current UL	12 A		
Thermal data	Operating temperatures	–25°C… + 85°C		
Conformity		RoHS compliant (Directive 2011/65/EU and Delegated Directive 2015/863)		

Wire locking systems



Electrical scheme



Dimensions



Approvals



Although we strive perfection, Omron and/or its subsidiary and affiliated companies do not warrant or make any representations regarding the correctness or completeness of the information described in the document. We reserve the right to make any changes at any time without prior notice



AL 🚯 🔼

Sockets with Push-In Plus technology PYF-D-PU/PTF-D-PU/P2RF-D-PU

Sockets with Push-In Plus technology to Save Work Added to Series for MY, LY and G2R-S Relays

- Sockets with Push-In Plus technology are used to save wiring work in comparison with traditional screw terminals. (Wiring time is reduced by 60%* in comparison with traditional screw terminals.)
- No screw loosening means maintenance-free application.
- Light insertion force and strong pull-out strength to achieve both less wiring work and high reliability.
- 'Hand-free' structure that holds an inserted screwdriver to achieve easier wiring work for stranded wires.
- Each terminal includes two wiring holes and can be used for crossover wiring.
- DIN Track mounting or screw mounting.
- * According to OMRON actual measurement data from November 2015.

Refer to Safety Precautions on page 10.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Features

- · Coil terminals and contact terminals are completely separated in an organized wiring layout.
- A Release Lever is provided as a standard feature. (except -L models)
- DIN terminal numbers are indicated.
- The double fixture rail with DIN hook tabs attached to the top and bottom lets you mount the Socket from either the top or bottom.
- One-touch Installation onto DIN-track.
- Front-in short bar enables easy installation without interference in duct when wiring.
- Please refer short bar correspondence table in page 9 for further information of short bar.
- There are screw mounting holes in the DIN hooks on the PYF- -PU, PTF- -PU and P2RF- -PU. Pull out the DIN hook tabs to mount the Sockets with screws.



* The PTF-DD-PU Sockets do not have short bar insertion holes.



Back of Push-In Plus Terminal Block Socket

The fixture rails can be pulled out to mount the Relays with screws.



Ordering Information

Sockets

PYF Series

A	Applicable model (typical example)		No. of poloo	Socket
Applicable model (typical example)		No. of poles	Model * 1	
		MY2□ MY2IN(S)	2	PYF-08-PU
General Purpose Relays	MY Series	MY4⊡ MY4H MYQ4⊡ MY4⊡(S) MY2K	4	PYF-14-PU
		MY2(N)-CR AC24 MY2Z(N)-CR	2	PYF-08-PU-L * 2
		MY4(N)-CR AC24 MY4N-CR AC115 MY4ZN-CBG-CR	4	PYF-14-PU-L * 2
	G3FM Series	G3FM		
SSR	C2E/C2ED Sorian	G3F	1	PYF-08-PU
	G3F/G3FD Series	G3FD		
	H3Y Series	H3Y(N)-2-B	2	PYF-08-PU-L
Timers	H3YN Series	H3Y(N)-4-B	4	PYF-14-PU-L

PTF Series

Applicable model (typical example)		No. of poles	Socket	
Аррис	Applicable model (typical example)		No. of poles	Model *
	LY Series	LY2	2	PTF-08-PU
General Purpose Relays		LY2□-CR	2	PTF-08-PU-L
		LY4	4	PTF-14-PU-L
	G3H Series	G3H	1	
SSR		G3HD		PTF-08-PU
	G9H Series Note: Hybrid Power Relay	G9H		
Temperature Controller	E5L	E5L-A 🗆 E5L-C 🗆		PTF-14-PU-L

* The PTF- $\Box\Box$ -PU-L Sockets do not have release levers.

P2RF Series

				Socket
Applicable model (typical example)			No. of poles	Model
General Purpose Relays	G2R-D-S (S) Series	G2R-1-S (S)		
000	G3R-I/O Series	G3R		
SSR	G3RZ Series	G3RZ		P2RF-05-PU
Timers	H3RN Series	H3RN-1-B		
General Purpose Relays	G2R-D-S (S) Series	G2R-2-S (S)		
Timers	H3RN Series	H3RN-2-B	2	P2RF-08-PU
Liquid Leakage Sensors	K7L Series	K7L-□B		

Accessories (Order Separately)

Short Bars

Pitch	Applicable models	No. of poles	Colors	Model *	Minimum order (quantity)	
		2		PYDN-7.75-020		
7.75 mm	PYF-DD-PU and	3		PYDN-7.75-030		
7.75 mm	P2RF-DD-PU	P2RF-□□-PU 4	Red (R)	PYDN-7.75-040	10	
			20	Blue (S) Yellow (Y)	PYDN-7.75-200	10
15.5mm	P2RF-DD-PU	8		PYDN-15.5-080		
31.0 mm	PYF-DD-PU	8	-	PYDN-31.0-080		

Note: Use the Short Bars for crossover wiring within one Socket or between Sockets.

* Replace the box (\Box) in the model number with the code for the covering color.

Labels

Applicable models	Model	Minimum order (sheet) (quantity per sheet)
PYF-□□-PU/ PTF-□□-PU/ P2RF-□□-PU	XW5Z-P4.0LB1	5 (1 sheet/60 pieces)

Hold-down Clip

Applicable models (Combinations)	Model	Minimum order (quantity)
PYF-08-PU-L H3Y(N)-2-B		
PYF-14-PU-L H3Y(N)-4-B	Y92H-3	10
PTF-08-PU-L LY2□-CR		
PTF-14-PU-L LY4□	PYC-A1	100
PTF-14-PU-L E5L	Y92H-10 *	1

Parts for DIN Track Mounting

Туре		Model	Minimum order (quantity)		
DIN Tracks	1 m	PFP-100N	1		
DIN HACKS	0.5 m	PFP-50N			
End Plate * Spacer		PFP-M	10		
		PFP-S	10		

* When mounting DIN rail, please use End Plate (Model PFP-M).

* Included with the E5L unit.

If you lose or damage the hold-down clip (Y92H-10), order it separately.

Ratings/Characteristics

Characteristics Sockets

PYF-DD-PU(-L)

Item	Model	PYF-08-PU (-L)	PYF-14-PU (-L)
Ambient of	operating temperature	-40 to 70°C	
Ambient of	perating humidity	5 to 85%	
Continuou	us carry current *	10 A	6 A
	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
Dielectric strength	Between contact terminals of different polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between coil and contact terminals	2,000 VAC, 1 min	2,000 VAC, 1 min
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Weight (approx.) 80 g		87 g	

* The continuous carry current of 10 A for PYF-08-PU(-L) is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

PTF-DD-PU(-L)

Item	Model	PTF-08-PU (-L)	PTF-14-PU-L
Ambient of	perating temperature	-40 to 70°C	
Ambient of	perating humidity	5 to 85%	
Continuou	is carry current *	10 A	
	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
Dielectric strength	Between contact terminals of different polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between coil and contact terminals	2,000 VAC, 1 min	2,000 VAC, 1 min
Insulation	resistance	1,000 MΩ min. (at 500 VDC)	
Weight (a	oprox.)	65 g	100 g

* The continuous carry current of 10 A for PTF-08-PU(-L) is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

The continuous carry current of 10 A for PTF-14-PU-L is for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7 A.

Accessories (Order Separately)

Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
		PYDN-7.75-020			
For Contact terminals	PYF-08-PU(-L) PYF-14-PU(-L) P2RF-05-PU P2RF-08-PU	PYDN-7.75-030	20 A	-40 to 70°C	5 to 85% Rh
(common)		PYDN-7.75-040			
		PYDN-7.75-200			
For Coil terminals	P2RF-05-PU P2RF-08-PU	PYDN-15.5-080	- 20 A	-40 to 70°C	5 to 85% Bh
For Conterminais	PYF-08-PU(-L) PYF-14-PU(-L)	PYDN-31.0-080	20 A	-40 10 70 0	5 to 55 % nil

P2RF-□□-PU

Item	Model	P2RF-05-PU	P2RF-08-PU
Ambient of	operating temperature	-40 to 70°C	
Ambient of	perating humidity	5 to 85%	
Continuou	us carry current *	10 A	6 A
	Between contact terminals of same polarity	1,000 VAC, 1 min	1,000 VAC, 1 min
Dielectric strength	Between contact terminals of different polarity		3,000 VAC, 1 min
	Between coil and contact terminals	4,000 VAC, 1 min	4,000 VAC, 1 min
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Weight (approx.)		40 g	45 g

* The continuous carry current of 10 A for P2RF-05-PU is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

The continuous carry current of 6 A for P2RF-08-PU is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 5 A.

Approved Standards CSA certification (File No. LR031928)

Model	Ratings	Class No.	Standard No.
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V		
PYF-14-PU (-L)	6A 250V *	3211 07	CSA C22.2 No14
PTF-14-PU (-L)	10 A 250 V (Same polarity)		
P2RF-08-PU	6 A 250 V	-	

*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

UL standard certification (File No. E87929)

Model	Ratings	Standard No.	Category	Listed/ Recognized
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V			
PYF-14-PU (-L)	6 A 250 V *	UL508	SWIV2	Recognized
PTF-14-PU (-L)	10 A 250 V (Same polarity)			
P2RF-08-PU	6 A 250 V			

*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

TÜV Rheinland certification

Model	Ratings	Standard No.	Certification No.		
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V *1				
PYF-14-PU (-L)	6 A 250 V	EN 61984	R50327595		
PTF-14-PU (-L)	10 A 250 V *2				
P2RF-08-PU	6 A 250 V *3				
*1 Detings are far an ambient temperature of EE°C. At an ambient temper					

***1.** Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A. ***2.** Ratings are for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7 A. ***3.** Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 5 A.

PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU

Dimensions

Sockets





Mounting Heights PYF-08-PU




PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU







70.1



are traditionally used

terminal numbers.



Note: Pull out the hooks to mount the Socket with screws.



PTF-14-PU-L



Mounting Heights PTF-08-PU





PTF-14-PU-L

PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU



Mounting Heights P2RF-05-PU

P2RF-08-PU





PYF-DD-PU/PTF-DD-PU/P2RF-DD-PU

Accessories (Order Separately)

Short Bars

PYDN-7.75-00 (7.75 mm)



PYDN-15.5-080 (15.5mm)

Ł

115.85

2.25

Application	Pitch	Applicable sockets	No. of poles	L (Length)	Colors	Model *
			2	15.1	Red (R) Blue (S) Yellow (Y)	PYDN-7.75-020
For Contact terminals	7.75 mm	PYF-□□-PU and P2RF-□□-PU	3	22.85		PYDN-7.75-030
(common)			4	30.6		PYDN-7.75-040
			20	154.6		PYDN-7.75-200
For Coil terminals	15.5 mm	P2RF-DD-PU	8	115.85		PYDN-15.5-080
	31 mm	PYF-DD-PU	8	224.35		PYDN-31.0-080

Note: 1. Use the Short Bars for crossover wiring within one Socket or between Sockets.
2. When using short bar to coil terminals of P2RF-□□-PU, make sure to use PYDN-15.5-080□ (15.5 mm).

When using short bar to coil terminals of PYF-D-PU (-L), make sure to use PYDN-31.0-080 (31 mm).

* Replace the box (\Box) in the model number with the code for the covering color.

PYDN-31.0-080 (31mm)



Parts for DIN Track Mounting

Refer to your OMRON website for details on the PFP-D.

18.5

12

Safety Precautions

Be sure to read the *Common Precautions for All Relays* in the website at the following URL: http://www.ia.omron.com/.

Warning Indications

	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.		
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.		
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.		

Meaning of Product Safety Symbols

🕂 WARNING

Make sure that the Socket does not have an electrical charge before you perform wiring or maintenance work. Electrical shock may occur.



Precautions for Safe Use

Transportation

- Do not use a Socket that has fallen to the floor or ground. The performance of a Socket that has been dropped may be reduced.
- Do not drop the Socket or subject it to abnormal vibration or shock during transportation or mounting. Doing so may result in deterioration of performance, malfunction, or failure.
- Do not transport a Socket when it is not packaged. Damage or failure may occur.

Operating and Storage Environments

- Do not use or store Sockets in the following locations. Doing so may result in deterioration of performance.
 - Locations subject to ambient storage temperatures outside the range 40 to 70°C
 - Locations subject to relative humidity outside the range 5% to 85%
 - Locations subject to high temperature or high humidity
 - Locations in which condensation may occur due to rapid changes in temperature
- Do not use or store Sockets in environments that contain silicone gas, sulfidizing gas (e.g., SO₂ or H₂S), or organic gas, or near materials that contain silicone. Doing so may cause the contacts to be unstable or to fail.
- Do not use a Socket in a location subject to ultraviolet light (such as a location subject to direct sunlight). Printing may fade, the Socket may rust or corrode, and plastic parts may deteriorate.
- Before you start wiring, make sure that the Socket is securely attached and mounted to a DIN Track. If the Socket is not stable, it may fall and possibly injure a worker.
- Insert the flat-blade screwdriver fully to the bottom of the release hole. If the flat-blade screwdriver is not inserted correctly, the wire may not be connected correctly.
- If there is lubrication, such as oil, on the tip of the flat-blade screwdriver, the flat-blade screwdriver may fall and possibly injure a worker.

- When crossover wiring by wire and short bar, make sure not to insert wrong position, it may cause short circuit, malfunction or failure.
- Avoid using or storing in a location where the unit will be subject to direct vibration or shock. Risk of failure, malfunctioning, or deterioration of performance.

Push-In Plus Terminal Blocks

- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a screwdriver into the release holes at an angle. The terminal block may be damaged if the flat-blade screwdriver is inserted straight in.
- Do not allow the flat-blade screwdriver to fall when you are holding it in a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire disconnection.
- Do not insert more than one wire into each terminal insertion hole.
- If you use wire or a short-circuit bar for crossover wiring, take care that there are no incorrect insertions. Incorrect insertion may cause short-circuiting, malfunctioning, or failure.
- To prevent wire materials from smoking or igniting, confirm wire ratings and use the wiring materials given in the following table.

Model Recommended wires		Stripping length	
PYF-□PU/ P2RF-□PU 0.5 to 1.5 mm² / AWG20 to AWG16 stranded wire, 0.8 to 1.3 mm² solid wire		8 mm	
PTF-DD-PU	0.5 to 2.5 mm ² / AWG20 to AWG14 stranded wire, 0.8 to 1.6 mm ² solid wire	0 mm	

Disposal

• If you dispose of any Sockets, do not place them in a fire.

Common connection method when using a short bar

Precautions for Correct Use

- Do not transport the Socket under the following conditions. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
 - · Locations subject to high temperature or high humidity
 - Locations subject to condensation due to rapid changes in temperature
- Do not use or store the Socket in the following locations. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
 - · Locations subject to shock or vibration
 - · Conditions in which an external load may be applied
 - Locations subject to dust, salts, or iron, or locations where there is salt damage
- Do not use the Socket in a location where it may be subjected to solvents or alkali liquids.
- Do not insert short bar in the hole for wire or screw driver, it may cause the result of failure of pull out.
 If insert short bar in the hole for wire or screw driver and try to pull
- out, it may cause damage for short bar or socket.
- Insert the short bar so that the protrusion part of the short bar comes to the wire insertion side. Be sure to insert the short bar in the correct direction. Inserting the short bar in the opposite direction will prevent the short bar from being fully inserted, leading to contact failure or other problems.



- Do not use or store in an atmosphere in which ambient silicon gas, sulfuric gas (SO₂, H₂S), or organic gas is present, or near material that contains silicon. This may cause unstable contact or contact failure.
- Do not use or store in a location where water, chemicals, solvents, oil, or other substances may spray or splash on the Socket. Risk of failure, malfunctioning, or deterioration of performance.
- Avoid using or storing in a location where the ambient temperature exceeds -40 to 70°C. Risk of failure, malfunctioning, or deterioration of performance.

Applying 10 A or More When Using an LY1 with the Following Sockets

When you use an LY1 in combination with the PTF-08-PU(-L) connect each of the following terminal pairs: (1)to (2), (3) to (4), and (5) to (6).

Push-In Plus Terminal Blocks

1. Connecting Wires to the Push-In Plus Terminal Block Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.



 If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block. **1.** Hold a flat-blade screwdriver at an angle and insert it into the

- The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
- With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block.

At that time, to prevent from separating from one another, please insert in a twisted state.

3. Remove the flat-blade screwdriver from the release hole.



Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use recommended ferrules, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

11

2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block.

- The same method is used to remove stranded wires, solid wires, and ferrules.
- Hold a flat-blade screwdriver at an angle and insert it into the release hole.
 With the flat-blade screwdriver still inserted into the release hole,
- remove the wire from the terminal insertion hole.
- 3. Remove the flat-blade screwdriver from the release hole.



3. Recommended Ferrules and Crimp Tools Recommended ferrules

	Applicable wire		Stripping length	Recommended ferrules			
(mm²)	(AWG)	length (mm)	(mm) (Ferrules used)	Phoenix Contact product	Weidmuller product	Wago product	
0.25	24	8	10	AI 0,25-8	H0.25/12	216-301	
*1	24	10	12	AI 0,25-10			
0.34	22	8	10	AI 0,34-8	H0.34/12	216-302	
*1	22	10	12	AI 0,34-10			
0.5	20	8	10	AI 0,5-8	H0.5/14	216-201	
0.5	20	10	12	AI 0,5-10	H0.5/16	216-241	
0.75	0.75 18	8	10	AI 0,75-8	H0.75/14	216-202	
0.75	10	10	12	AI 0,75-10	H0.75/16	216-242	
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203	
1/1.25	10/17	10	12	AI 1-10	H1.0/16	216-243	
1.25/1.5	17/16	8	10	AI 1,5-8	H1.5/14	216-204	
*2	17/10	10	12	AI 1,5-10	H1.5/16	216-244	
2.5	2.5	10	12	AI 2,5-10	H2.5/16DS	216-246	
*3	14	12	14	AI 2,5-12	H2.5/19D	216-266	
Recorr	Recommended crimp tool			CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

- **Note: 1.** Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
 - 2. Make sure that the ferrule processing dimensions conform to the following figures.

PYF-DD-PU/P2RF-DD-PU

PTF-00-PU

8 to 12 mm

mm max



- *1. If you use AWG24 to AWG22 (0.25 to 0.34 mm²) wires, UL certification will not apply.
- *2. On the PYF-□-PU / P2RF-□-PU, do not connect ferrules for the applicable wires (AWG17 to AWG16 (1.25 to 1.5 mm²)) to adjacent terminal (insertion) holes. However, when using a ferrule with no insulation sleeve,

(See the list below.)

***3.** AWG14 wire can only be used on the PTF-DD-PU.

Ferrule with no insulation sleeve

Applicable wire		Ferrule Conductor		Recommended ferrules			
(mm²)	(AWG)	length (mm)	(mm) (Ferrules used)	Phoenix Contact product	Weidmuller product	Wago product	
1.25/1.5	17/16	10	10	A 1,5-10	H1.5/10	216-144	
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires. Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2018/Dec.



Model	Manufacturer
ESD 0,40×2,5	Wera
SZS 0,4×2,5 SZF 0-0,4×2,5 *	Phoenix Contact
0.4×2.5×75 302	Wiha
AEF.2,5×75	Facom
210-719	Wago
SDIS 0.4×2.5×75	Weidmuller
9900 (-2.5×75)	Vessel

* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4×2,5 (manufactured by Phoenix Contact).

When mounting a short bar

• Intermediate pins can be bent by a tool or by hand and cut off for use.



• The short bar can be cut to as many poles as needed. Insert the tool from the plastic part side, and cut along the groove in the plastic part between the terminals. When cutting, take care not to break or deform the terminals.

However, because the metal on the cut surface will be exposed, insulation countermeasures between adjacent products must be ensured. Such countermeasures include widening the intervals between products or using XW5Z-EP12 separate plates (order separately).



 When cutting the short bar or its pins, do not touch the conductive part. If the conductive part is deformed, contact failure may result.



Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation Industrial Automation Company Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2016-2021 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. CSM_6_11 Cat. No. J212-E1-05 1021(0316)



Discontinuation notice of PYF series sockets for MY(S) relays



Product Discontinuation Common sockets

Model PYF08A Series Model PYF08A-E Model PYF14A Series Model PYF14A-E



Model PYFZ-08 series Model PYFZ-08-E Model PYFZ-14 series Model PYFZ-14-E

Recommended Replacement

Discontinuation Date: March 2021

[Final order entry date] The end of March, 2021 [Last shipping date]

The end of June, 2021

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen- sions	Wire connection	Mounting Dimensions	Charac- teristics	Operation ratings	Operation methods
PYFZ-08 series	**	**	**	**	**	-	-
PYFZ-08-E	**	**	**	**	**	-	-
PYFZ-14 series	**	**	**	**	**	-	-
PYFZ-14-E	**	**	**	**	**	-	-

* : Compatible

* : The change is a little/Almost compatible

- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
PYF08A	PYFZ-08
PYF08A-E	PYFZ-08-E
PYF08A-TU	PYFZ-08-TU
PYF08A-W	PYFZ-08-W
PYF14A	PYFZ-14
PYF14A-C	PYFZ-14-C
PYF14A-E	PYFZ-14-E
PYF14A-E-US	No recommended replacement
PYF14A-TU	PYFZ-14-TU

Body color



(TOP VIEW)

Mounting dimensions



Characteristics

ltem	Product discontinuation Model PYF08A series, PYF08A-E Model PYF14A series, PYF14A-E	Recommendable replacement Model PYFZ-08 series, PYFZ-08-E Model PYFZ-14 series, PYFZ-14-E	
Ambient using temperature	-55 ~ +70°C		
Ambient using humidity	5~85%RH		
Rated carry current	PYF08A series, PYF08A-E :7A PYF14A series, PYF14A-E :3A	PYFZ-08 series, PYFZ-08-E : <mark>10A</mark> PYFZ-14 series, PYFZ-14-E : <mark>6A</mark>	
Dielectric strength	Between same pole contact : AC2,000V/1min Between different pole contact : AC2,000V/1min Between coil and contact : AC2,000V/1min	Between same pole contact : AC 2,250 V/1min Between different pole contact : AC 2,250 V/1min Between coil and contact : AC 2,250 V/1min	
Insulation resistance	1,000MΩMin. (DC500V)	•	
Weight	PYF08A series, PYF08A-E: Approx.32g PYF14A series, PYF14A-E: Approx.49g	PYFZ-08 series, PYFZ-08-E: Approx.32g PYFZ-14 series, PYFZ-14-E: Approx. 50 g	
Safety standard certified	UL、CSA	UL、CSA、 TUV	



Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.