

Hermetically Sealed Relay

MY4H

Hermetically Sealed Relay Ideal for Hazardous Locations

- Class 1 Division 2 approved.
- Fully hermetically sealed for hazardous locations.
- Cadmium-free contacts for environment-friendly use.
- Models with bifurcated contact also available.
- Conforms to UL508 and CSA 22.2.



Ordering Information

Type	Contact form	Model
		Plug-in socket/solder terminals
Hermetically sealed	4PDT	MY4H-US
	4PDT (bifurcated)	MY4ZH-US

Model Number Legend:

MY-□□□-□-□
 1 2 3 4 5

1. Number of Poles

4: 4 poles

2. Contact

Blank: Single

Z: Bifurcated

3. Enclosure ratings

H: Hermetically sealed

4. Approval

US: Class 1 Division 2 approval

5. Rated voltage

12 VDC, 24 VDC, 24 VAC, 110/120 VAC

Specifications

Ratings

Coil

Rated voltage (V)		Rated current (mA)		Coil resistance (Ω)	Must operate voltage	Must release voltage	Max. voltage	Power consumption
		50 Hz	60 Hz					
DC	12	75		160	80% max.	10% min.	110%	900 mW
	24	36.9		650				
AC	110/120	9.9/10.8	8.4/9.2	4,430		30% min.		0.9-1.1 VA (60 Hz)
	24	53.8	46	180				

Contact Ratings

Contact material		Ag alloy
Rated load	Resistive p.f.=1	110 VAC, 3 A 24 VDC, 3A
	Inductive p.f.=0.4 L/R-7 ms	110 VAC, 0.8 A 24 VDC, 1.5 A
Rated carry current		3 A
Max. switching voltage		125 VAC, 125 VDC
Max. switching current		3 A
Max. switching power		330 VA 72 W

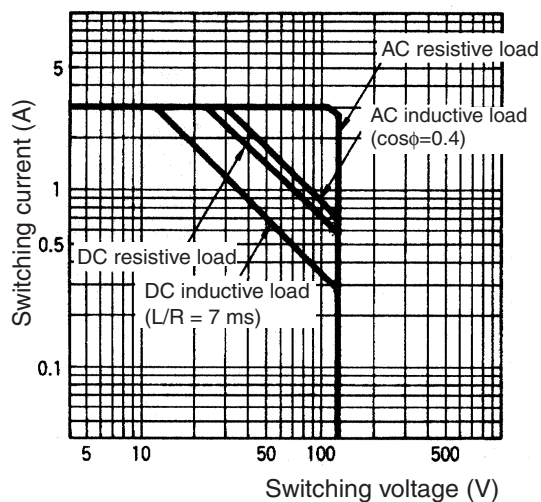
■ Characteristics

Contact resistance		50 mΩ max.
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		1,000 VAC, 1 min between coil and contacts 1,000 VAC, 1 min between contacts of different polarity 700 VAC, 1 min between contacts of same polarity
Vibration resistance	Destruction	10 to 55 Hz, 0.5 mm single amplitude
	Malfunction	10 to 55 Hz, 0.5 mm single amplitude
Shock resistance	Destruction	1,000 m/s ²
	Malfunction	When energized: 200 m/s ² When not energized: 200 m/s ²
Endurance		Mechanical: Single contact: 50,000,000 operations Bifurcated contact: 5,000,000 operations Electrical: 100,000 operations. (Single contact) 50,000 operations. (Bifurcated contact)
Ambient temperature	Operating	-25 to 60°C
	Storage	-25 to 60°C
Ambient humidity		5% to 85%
Weight		Approx. 50 g

■ Characteristic Data

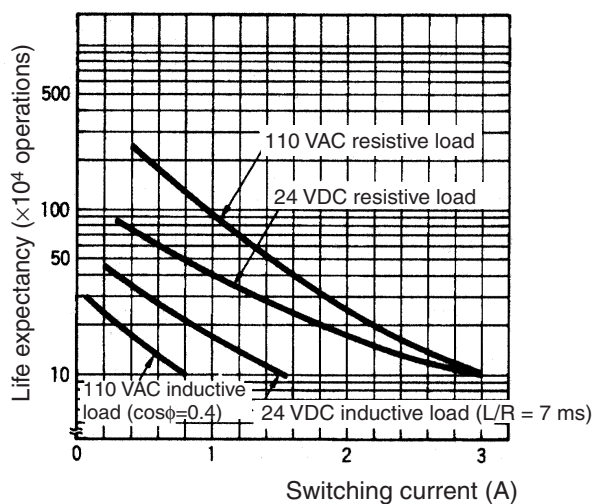
Maximum Switching Power

MY4(Z)H



Endurance

MY4H



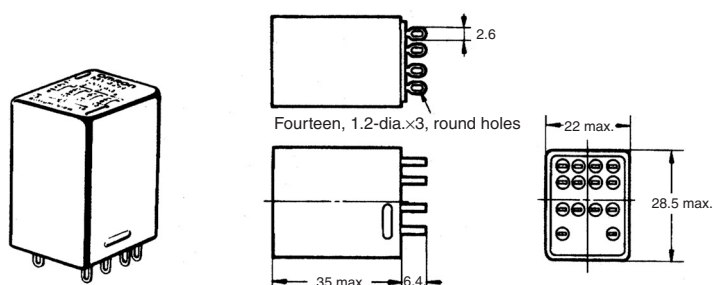
Note The endurance is for bifurcated contact models.

Dimensions

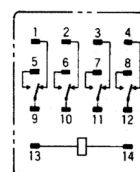
Unit: mm

■ Solder Terminal Models

MY4(Z)H



Terminal Arrangement/
Internal Connections
(BOTTOM VIEW)

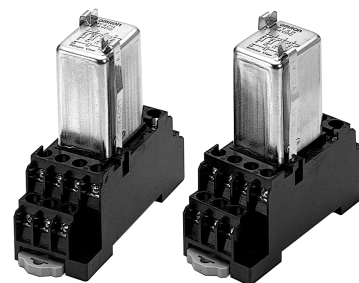


(There is no coil polarity.)

■ Socket

Track-mounted Socket Conforming to Class 1 Division 2

- Special Socket with Class 1 Division 2 approval.
- Holding clips contribute to safety by preventing the Relay falling out of the Socket due to vibration.



Ordering Information

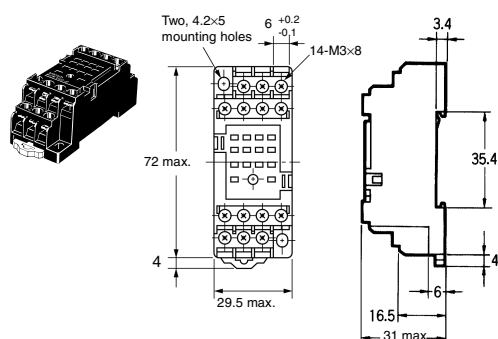
Item	Pole	Model
Track-mounted socket	4	PYF14A-E

Note: 1. Class 1 Division 2 approval is obtained for use with the MY4(Z)H Relay.
2. Clips are not included.

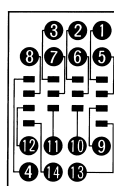
Dimensions

Unit: mm

PYF14A-E

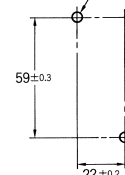


**Terminal Arrangement/
Internal Connections
(Top View)**



Mounting Holes

Two, M3, M4, or 4.5-dia holes



(TOP VIEW)

Note: Track mounting is also possible.

Approval Tables

UL recognized type (File no. E216067)

Type	Contact form	Coil ratings	Contact ratings
MY4H	4PDT	6 - 24 VAC 6 - 125 VDC	0.8 A - 120 VAC general purpose 1.5 A - 24 VDC general purpose 3.0 A - 120 VAC resistive 3.0 A - 24 VDC resistive

CSA certified type (File no. LR 31928)

Type	Contact form	Coil ratings	Contact ratings
MY4H	4PDT	6 - 24 VAC 6 - 125 VDC	0.8 A - 120 VAC general purpose 1.5 A - 24 VDC general purpose 3.0 A - 120 VAC resistive 3.0 A - 24 VDC resistive

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