OMRON

Hermetically Sealed Relay

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.
- UL recognized / CSA certified.



Ordering Information

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

Model Number Legend:

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 DC12, DC24, AC24, AC110/120

Specifications

Ratings

Coil

Rated voltage (V)		Rated cu	rrent (mA)	Coil resistance	Must operate	Must release	Max. voltage	Power	
		50 Hz 60 Hz		(Ω)	voltage	voltage		consumption	
DC	12	75		160	80% max.	10% min.	110%	900 mW	
	24	36.9		650	-				
AC	110/120	9.9/10.8	.8 8.4/9.2 4,430		-	30% min.		0.9-1.1 VA	
	24	53.8 46		180				(60 Hz)	

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 volt	age	125 VAC, 125 VDC
Max. switching cur	rent	3 A
Max. switching pov	ver	330 VA 72 W

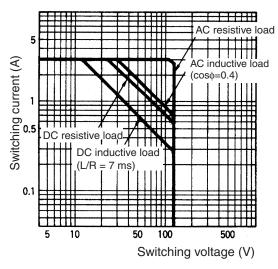
■ Characteristics

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Contact resistance		50 m Ω max.							
Operate time		20 ms max.							
Release time		20 ms max.							
Max. operating	Mechanical	18,000 operations/hr							
frequency	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, 1.0 mm double amplitude							
	Malfunction	10 to 55 Hz, 1.0 mm double 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:5,000,000 operationsElectrical:50,000 operations							
Ambient temperature	Operating	-25 to 60°C							
	Storage	-25 to 60°C							
Ambient humidity	•	5% to 85%							
Weight		Approx. 50 g							

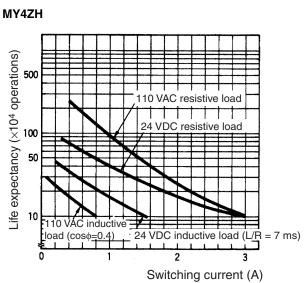
■ Characteristic Data

Maximum Switching Power

MY4(Z)H



Endurance



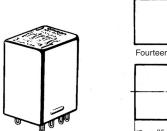
Note: The endurance is for bifurcated contact models.

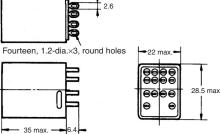
Dimensions

Unit: mm

Solder Terminal Models

MY4(Z)H





Terminal Arrangement/ Internal Connections (BOTTOM VIEW)



(There is no coil polarity.)

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■ 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					

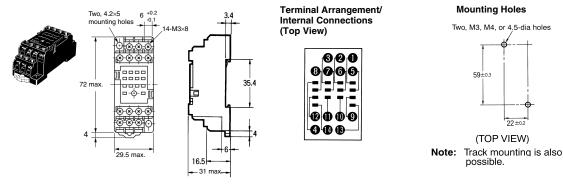
Note: 1. Class 1 Division 2 approval is obtained for use with the MY4ZH Relay.

2. PYC-A1 hold-down clips are not included, but are recommended. (Clips are packaged 2 per set)

Dimensions

Unit: mm

PYF14A-E



280 Hermetically Sealed Relay MY4H

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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