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 (bifurcated)	MY4ZH-US	

Model Number Legend:

MY-<u>DDD</u> - D - D

- 12345
- 1. Number of Poles
- 4: 4 poles
- 2. Contact
 - 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	Must operate	Must release	Max. voltage	Power
		50 Hz	60 Hz	(Ω)	voltage	voltage		consumption
-	12	75 36.9		160	80% max.	10% min.	110%	900 mW
	24			650				
AC	110/120	9.9/10.8	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 curren	t	3 A
Max. switching vol	tage	125 VAC, 125 VDC
Max. switching cur	rent	3 A
Max. switching pov	ver	330 VA 72 W

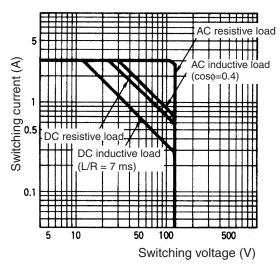
■ Characteristics

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	e 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: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		

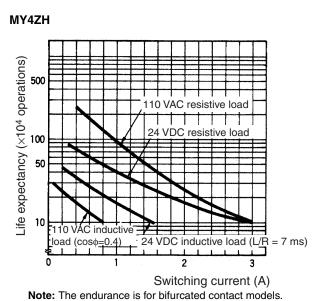
■ Characteristic Data

Maximum Switching Power

MY4ZH



Endurance

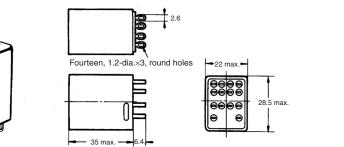


Dimensions

Unit: mm

Solder Terminal Models

MY4ZH



Terminal Arrangement/ Internal Connections (BOTTOM VIEW)



(There is no coil polarity.)

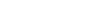
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■ Socket Track-mounted Socket Conforming to Class 1 Division 2

- 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

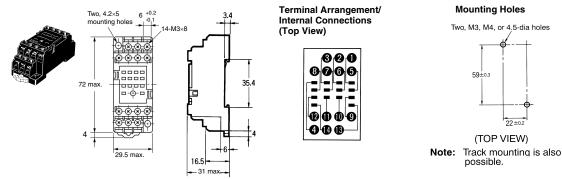
Note: 1. Class 1 Division 2 approval is obtained for use with the MY4ZH Relay.

2. Clips are not included.

Dimensions

Unit: mm

PYF14A-E



Approval Tables

UL recognized type (File no. E216067) - - Ambient Temp = 40°C

Туре	Contact form	Coil ratings	Contact ratings
MY4ZH		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)

Туре	Contact form	Coil ratings	Contact ratings
MY4ZH		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

Omron Electronic Components, LLC

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06/09

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