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.
- Conforms to UL508 and CSA 22.2.



Ordering Information

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

■ Model Number Legend:

MY-000-0-0

- 1 2 3 4 5
- 1. Number of Poles
- 4: 4 poles
- 2. Contact
 - Blank: Single Z:
 - Bifurcated

- 3. Enclosure ratings
 - Hermetically sealed H:
- 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		
		50 Hz	60 Hz	(Ω)	voltage	voltage		consumption	
DC	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%	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 voltage		125 VAC, 125 VDC
Max. switching current		3 A
Max. switching power		330 VA 72 W

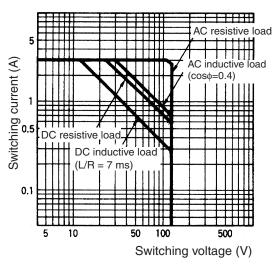
■ Characteristics

Contact resistance		50 m Ω max.			
Operate time		20 ms max.			
•		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, 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			

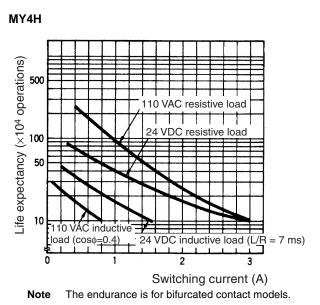
■ Characteristic Data

Maximum Switching Power

MY4(Z)H



Endurance

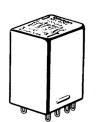


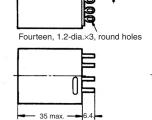
Dimensions

Unit: mm

Solder Terminal Models

MY4(Z)H





2.6



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

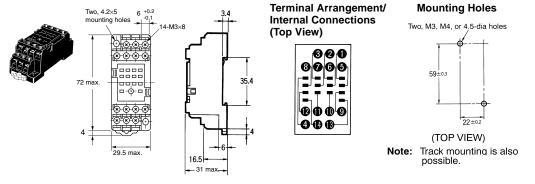
Item	Pole	Model
Track-mounted socket	4	PYF14A-E

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



Approval Tables

UL recognized type (File no. E216067)

Туре	Contact form	Coil ratings	Contact ratings
MY4H		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
MY4H		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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