# Hermetically Sealed Relay MY4H

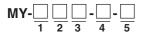
# Hermetically Sealed Relay Ideal for Hazardous Locations

- 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.



## **Model Number Structure**

## **■** 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

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

# **Ordering Information**

#### **■** List of Models

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

# **Specifications**

# **■** Ratings

## <u>Coil</u>

Rated voltage (V)		Rated current (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	8.4/9.2	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, 3 A	
	Inductive p.f.=0.4 L/R–7 ms	110 VAC, 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	

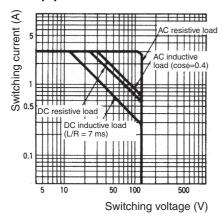
## **■** Characteristics

Contact resistance	50 m $Ω$ max.	
Operate time	20 ms max.	
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 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 <sup>2</sup> Malfunction:  When energized: 200 m/s <sup>2</sup> When not energized: 200 m/s <sup>2</sup>	
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	
Ambient humidity	Operating: 5% to 85%	
Weight	Approx. 50 g	

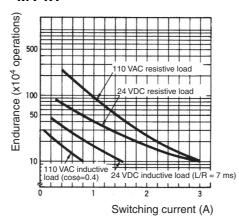
# **Engineering Data**

### **Maximum Switching Power Endurance**

#### MY4(Z)H



#### MY4H

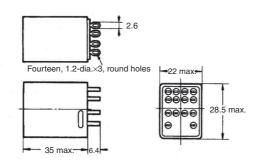


Note: The endurance is half for bifurcated contact models.

# **Dimensions**

Solder Terminal Models MY4(Z)H





Terminal Arrangement/ Internal Connections



(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.



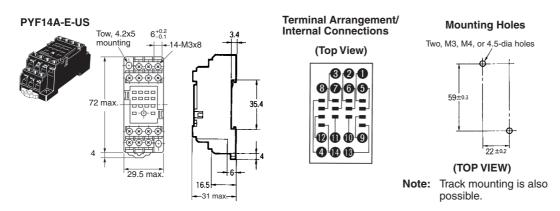
## **■** Ordering Information

Item	Pole	Mode
Track-mounted socket	4	PYF14A-E-US

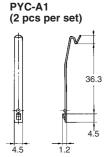
Note: 1. Class 1 Division 2 approval is obtained for use with the MY4(Z)H Relay.

2. Clips are not included.

#### **■** Dimensions



#### ■ Accessory (Option)



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

Cat. No. J131-E1-02

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

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