# **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:

$$\frac{\text{MY-}\square\square\square}{\frac{1}{2}\frac{3}{3}\frac{3}{4}\frac{2}{\frac{3}{4}} = \frac{\square}{\frac{5}{2}}$$

1. Number of Poles

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	
DC	12	75		160	80% max.	10% min. 110% 900 m <sup>1</sup>	900 mW		
	24	36.9		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

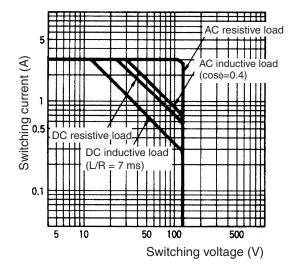
# **■** Characteristics

Contact resistance		$50$ m $\Omega$ 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, 0.5 mm single amplitude			
	Malfunction	10 to 55 Hz, 0.5 mm single 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: 5,000,000 operations Electrical: 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

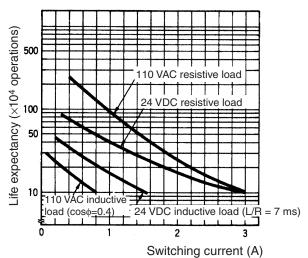
## **Maximum Switching Power**

#### MY4ZH



## **Endurance**

#### MY4ZH



**Note:** The endurance is for bifurcated contact models.

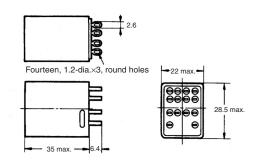
## **Dimensions**

Unit: mm

## **■** Solder Terminal Models

## **MY4ZH**





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

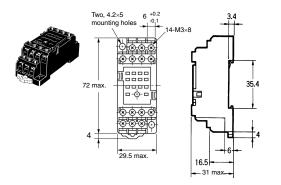
Note: 1. Class 1 Division 2 approval is obtained for use with the MY4ZH Relay.

2. Clips are not included.

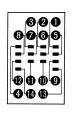
## **Dimensions**

Unit: mm

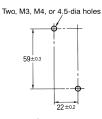
#### PYF14A-E



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



#### Mounting Holes



(TOP VIEW)

Note: Track mounting is also

# **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

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

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