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[MY4H-US DC12](#)

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# 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.
- UL recognized / CSA certified.



## Ordering Information

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

## Model Number Legend:

MY       -   -    
1 2 3 4 5

### 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 current (mA)		Coil resistance (Ω)	Must operate voltage	Must release voltage	Max. voltage	Power consumption
		50 Hz	60 Hz					
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, 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

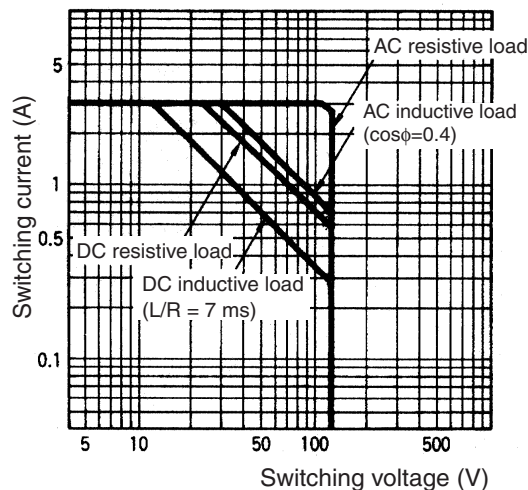
## ■ Characteristics

Contact resistance		50 mΩ 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 Hz, 1.0 mm double amplitude
	Malfunction	10 to 55 Hz, 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: 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

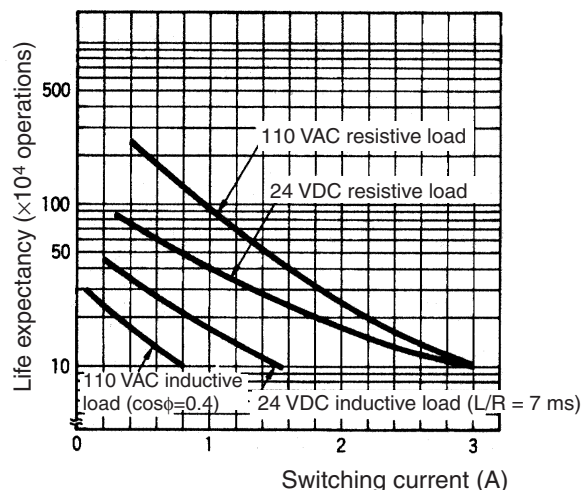
### Maximum Switching Power

MY4(Z)H



### Endurance

MY4ZH



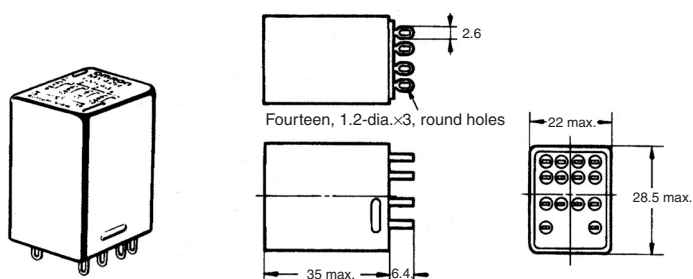
**Note:** The endurance is for bifurcated contact models.

## Dimensions

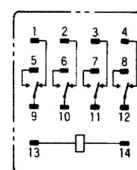
Unit: mm

### ■ Solder Terminal Models

MY4(Z)H



**Terminal Arrangement/  
Internal Connections  
(BOTTOM VIEW)**

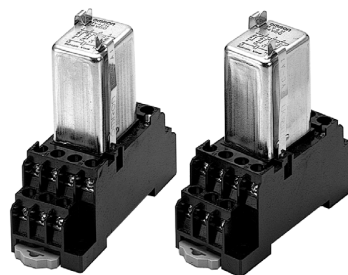


(There is no coil polarity.)

## ■ 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

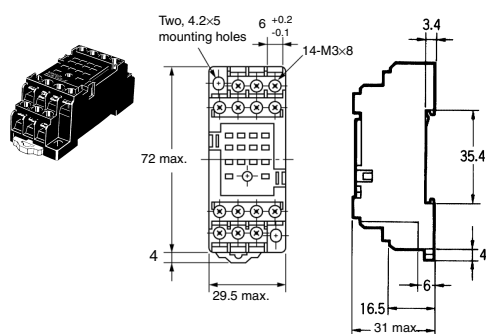
Item	Pole	Model
Track-mounted socket	4	PYF14A-E

- 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)

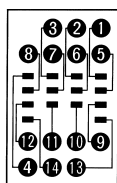
## Dimensions

Unit: mm

### PYF14A-E

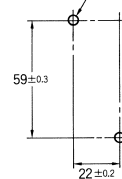


**Terminal Arrangement/  
Internal Connections  
(Top View)**



**Mounting Holes**

Two, M3, M4, or 4.5-dia holes



**(TOP VIEW)**

**Note:** Track mounting is also possible.



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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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