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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		30% min.		0.9-1.1 VA (60 Hz)
AC	110/120	9.9/10.8	8.4/9.2	4,430				
	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	

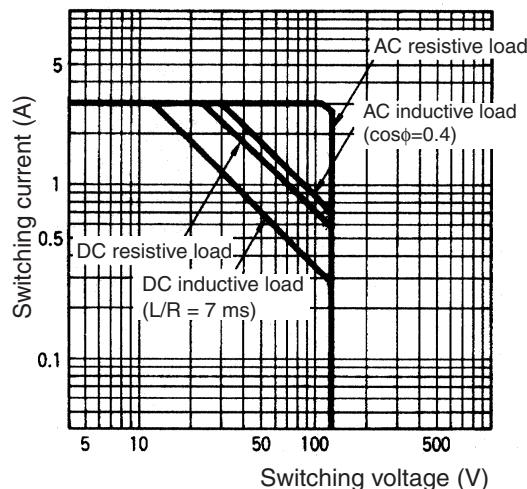
## ■ Characteristics

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

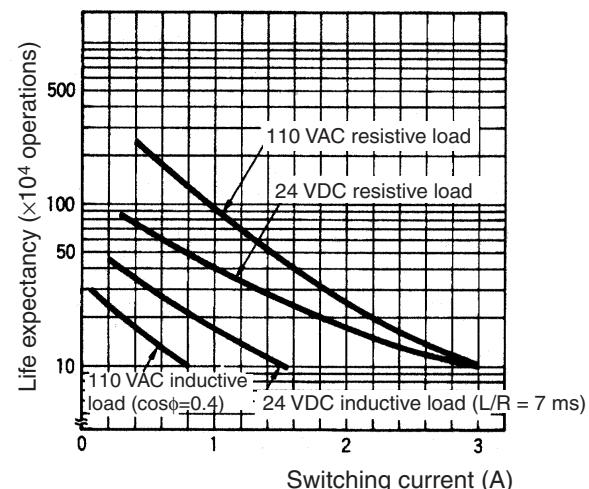
### Maximum Switching Power

MY4(Z)H



### Endurance

MY4ZH



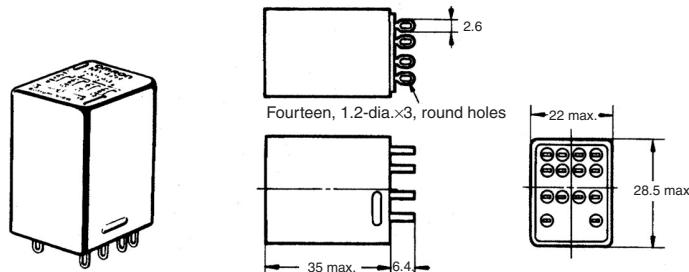
Note: The endurance is for bifurcated contact models.

## Dimensions

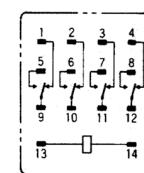
Unit: mm

### ■ Solder Terminal Models

MY4(Z)H



Terminal Arrangement/  
Internal Connections  
(BOTTOM VIEW)

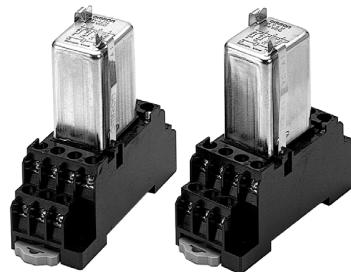


(There is no coil polarity.)

## ■ 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

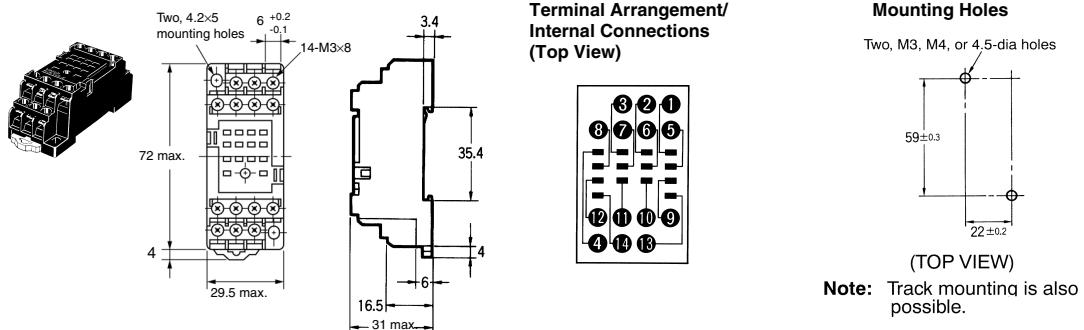
Item	Pole	Model
Track-mounted socket	4	PYF14A-E

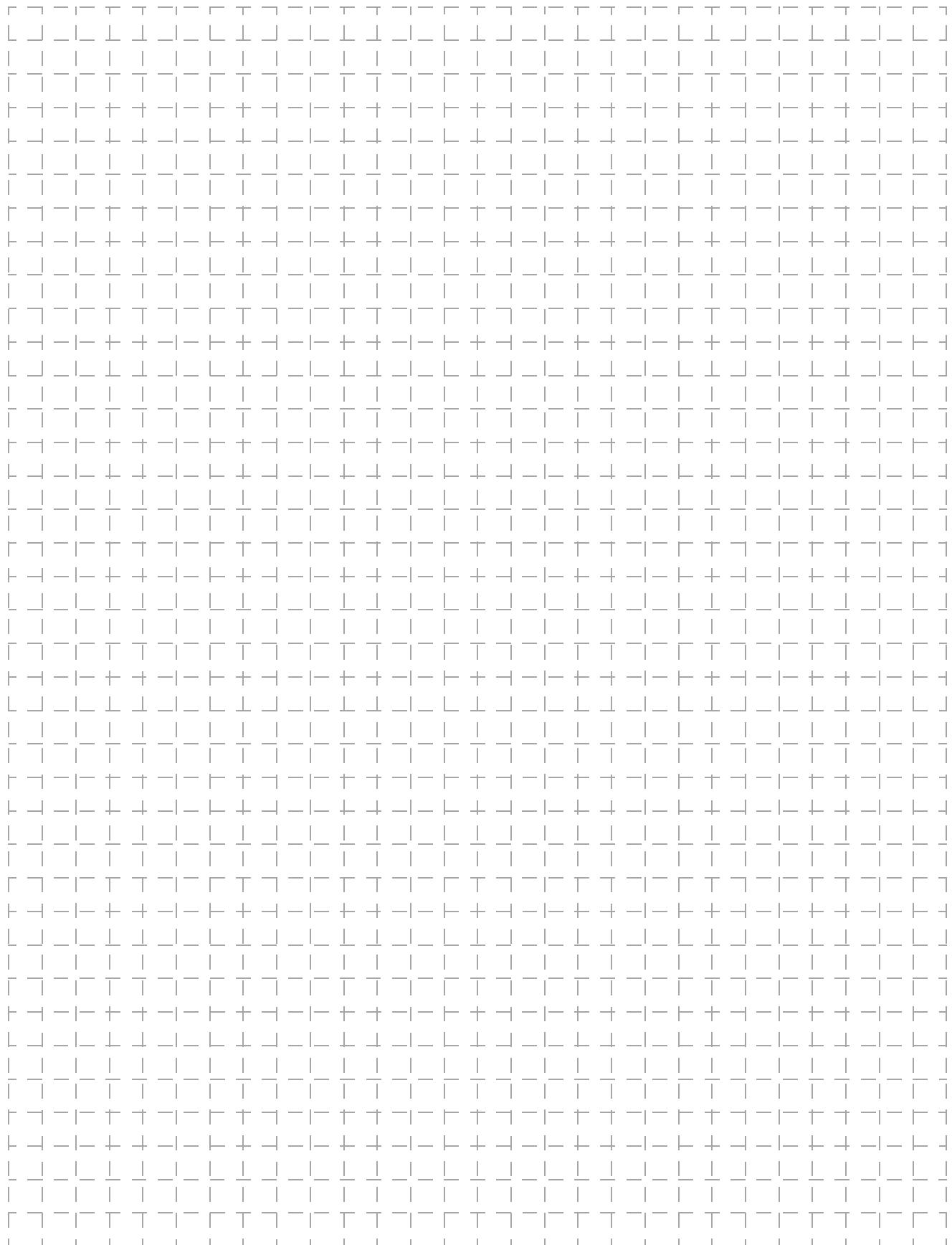
**Note:** 1. Class 1 Division 2 approval is obtained for use with the MY4ZH Relay.  
 2. PYC-A1 hold-down clips are not included, but are recommended. (Clips are packaged 2 per set)

### Dimensions

Unit: mm

**PYF14A-E**



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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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