

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 |

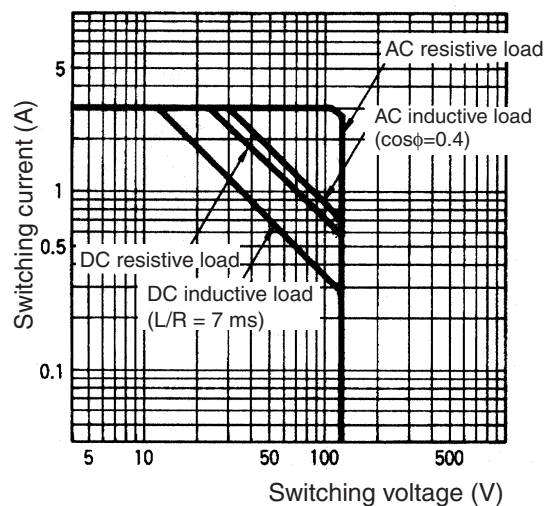
■ Characteristics

| | | |
|--------------------------|-------------|---|
| 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 ² |
| | Malfunction | When energized: 200 m/s ² When not energized: 200 m/s ² |
| 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

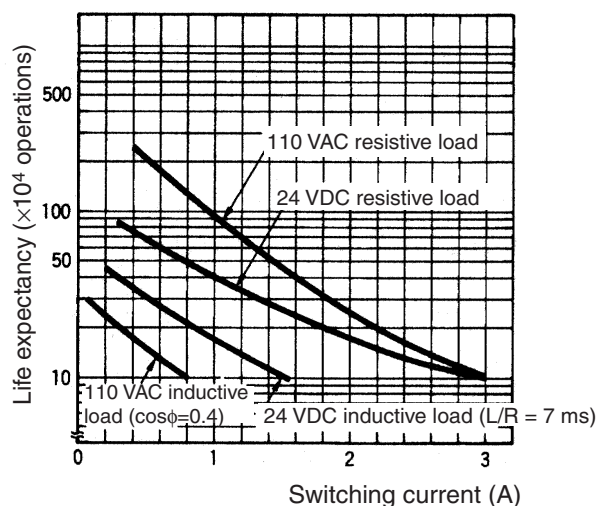
Maximum Switching Power

MY4(Z)H



Endurance

MY4ZH



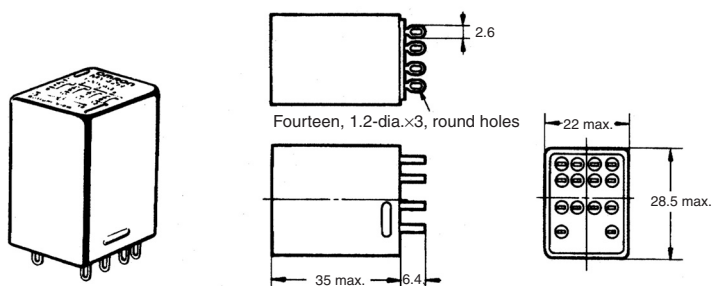
Note: The endurance is for bifurcated contact models.

Dimensions

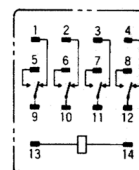
Unit: mm

■ Solder Terminal Models

MY4(Z)H



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

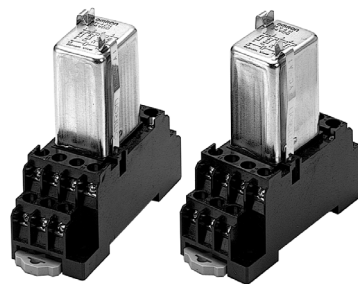


(There is no coil polarity.)

■ 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

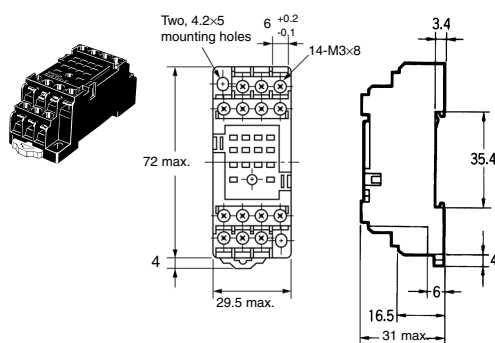
| Item | Pole | Model |
|----------------------|------|----------|
| Track-mounted socket | 4 | PYF14A-E |

- 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)

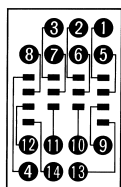
Dimensions

Unit: mm

PYF14A-E

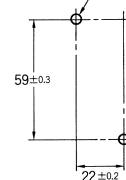


Terminal Arrangement/
Internal Connections
(Top View)



Mounting Holes

Two, M3, M4, or 4.5-dia holes



(TOP VIEW)

Note: Track mounting is also possible.

All sales are subject to Omron Electronic Components LLC standard terms and conditions of sale, which can be found at http://www.components.omron.com/components/web/webfiles.nsf/sales_terms.html

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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

OMRON[®]

**OMRON ELECTRONIC
COMPONENTS LLC**

55 E. Commerce Drive, Suite B
Schaumburg, IL 60173

847-882-2288

OMRON ON-LINE

Global - <http://www.omron.com>

USA - <http://www.components.omron.com>

Cat. No. X301-E-1b

09/11

Specifications subject to change without notice

Printed in USA

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com