

# Screwless Clamp Terminal Socket

## PYF□□S

- Screwless clamping greatly contributes to reducing wiring time.
- No over or under tightening of cable connection so better contact reliability is achieved.
- Double wiring possible on all the terminals, and easy bridge and branch connections.
- Use either solid or stranded wires from 0.2 to 1.5 mm<sup>2</sup> (AWG24 to AWG16).
- Safe terminal arrangement: Coil terminals separated from contact terminals.
- Unique ejector enables easy relay replacement.
- Two types of nameplate are available: New MY and Legrand.
- Finger-protection construction.



## Ordering Information

### List of Models

|                                 | 4-pole                  | 2-pole               |
|---------------------------------|-------------------------|----------------------|
| <b>Socket</b>                   | PYF14S                  | PYF08S               |
| <b>Clip &amp; Release Lever</b> | PYCM-14S                | PYCM-08S             |
| <b>Nameplate</b>                | R99-11 nameplate for MY |                      |
| <b>Socket Bridge</b>            | PYDM-14SR, PYDM-14SB    | PYDM-08SR, PYDM-08SB |

## Specifications

### Ratings/Characteristics

| Item                              | PYF14S                                                                      | PYF08S                                                | Remarks |
|-----------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------|---------|
| <b>Relay</b>                      | MY2 Series<br>MY4 Series                                                    | MY2 Series                                            | ---     |
| <b>Dimensions</b>                 | 31 × 85 × 36.5 mm max. (W × H × D)                                          | 23.2 × 85 × 36.5 mm max. (W × H × D)                  | ---     |
| <b>Rated voltage</b>              | 250 V AC                                                                    |                                                       | ---     |
| <b>Rated carry current</b>        | 10 A at 55°C with MY2 (S) (see note)<br>5 A at 70°C with MY4 (S)            | 10 A at 55°C with MY2 (S)<br>7 A at 70°C with MY2 (S) | VDE0627 |
| <b>Applicable wires</b>           | 0.2 to 1.5 mm <sup>2</sup> (AWG24 to AWG16)<br>Solid wire<br>Stranded wires |                                                       | ---     |
| <b>Number of wire connections</b> | 2 wires per terminal (1 wire per hole)                                      |                                                       | ---     |
| <b>Clamping force</b>             | 10 N min. (0.2 mm <sup>2</sup> )<br>40 N min. (1.5 mm <sup>2</sup> )        |                                                       | EN60999 |

**Note:** MY2 (S) can be used at 70°C but at 7 A.

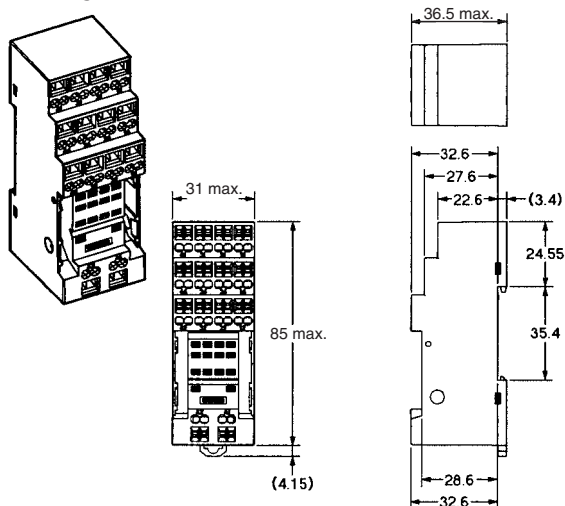
### Approved Standards

| Standard                             | File No.      |
|--------------------------------------|---------------|
| VDE0627 (IEC664, EN60999)            | 112467UG      |
| UL508 (UL1059)                       | E87929 Vol. 3 |
| CSA C22.2 No. 14 (CSA C22.2 No. 158) | LR31928       |

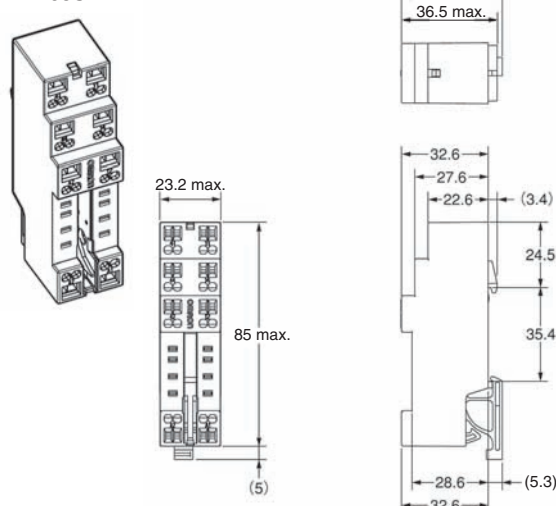
# Dimensions

**Note:** All units are in millimeters unless otherwise indicated.

PYF14S

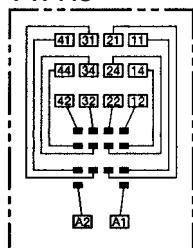


PYF08S

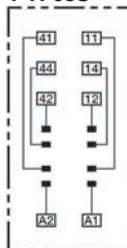


## Terminal Arrangement

PYF14S



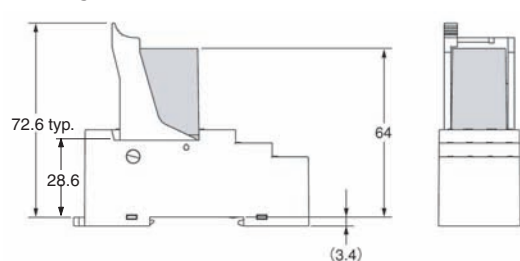
PYF08S



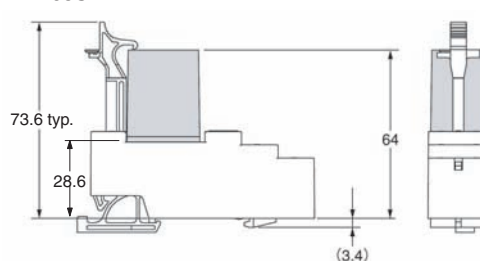
**Note:** Pole-2 and pole-3 cannot be used with the MY2 type.  
Use pole-1 (terminal numbers: 11, 14, 12) and pole-4 (terminal numbers: 41, 44, 42).

## Mounting Height (With Lever)

PYF14S

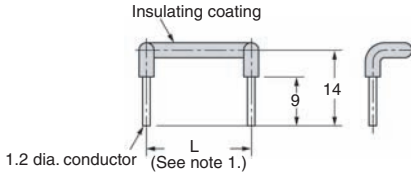


PYF08S



# Accessories (Option)

## Socket Bridge



**Note: 1.** The relationship between the model number, the length L, and the color of the insulating coating is shown in the following table.

| Model number | Length L (mm) | Color of insulating coating |
|--------------|---------------|-----------------------------|
| PYDM-14SR    | 27.5          | Red                         |
| PYDM-14SB    |               | Blue                        |
| PYDM-08SR    | 19.7          | Red                         |
| PYDM-08SB    |               | Blue                        |

**2.** The insulating coating must be able to withstand a voltage of 1,500 V for 1 minute. Use either PE or PA as the material of the insulating coating.

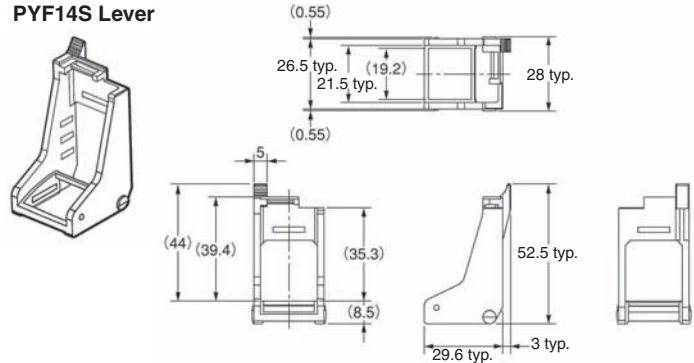
**3.** The positions of the ends of the insulating coating must not vary more than 0.5 mm.

**4.** The characteristics of the socket bridge are shown in the following table.

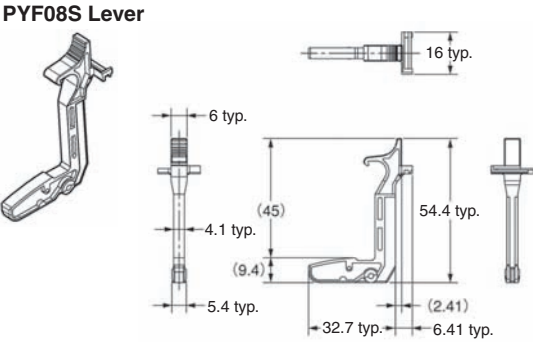
| Item                          | Characteristic         |
|-------------------------------|------------------------|
| Rated ON current              | 10 A                   |
| Rated insulation voltage      | 250 VAC                |
| Temperature rise              | 35°C max.              |
| Dielectric strength           | 1,500 VAC for 1 minute |
| Ambient operating temperature | -55 to 70°C            |

## Levers

PYF14S Lever



PYF08S Lever



# Installation

## Tools

A flat-blade screwdriver should be used to mount the cables.

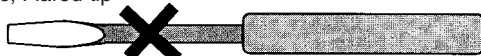
## Applicable Screwdriver

● Flat-blade, Parallel-tip, 2.5 mm diameter (3.0 mm max.)

● Flat-blade, Parallel-tip



● Flat-blade, Flared-tip



**Cannot be used.**

Examples: FACOM AEF.2.5 × 75E (AEF. 3 × 75E)  
VESSEL No. 9900-(-)2.5 × 75 (No. 9900-(-)3 × 100)  
WAGO 210-119  
WIHA 260/2.5 × 40 (260/3 × 50)

\*Chamfering the tip of the driver improves insertion when used as an exclusive tool.

# ■ Applicable Wires

## Applicable Wire Sizes

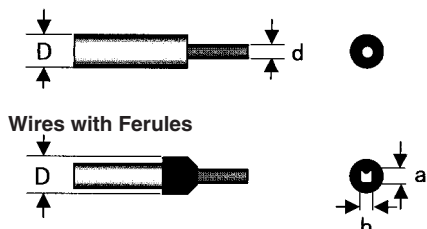
0.2 to 1.5 mm<sup>2</sup>, AWG24 to AWG16

## Applicable Wire Type

Solid wires, stranded wires, flexible wires, or wires with ferules can be used.

(See note 1.)  $< 2.2 \leq \text{Diameter } D \text{ (mm)} \leq 3.2$  (3.5: see note 2.)

Conductor diameter  $d$  (mm) or length of sides  $a$  and  $b$  (mm)  $\leq 1.9$



**Note: 1.** If the overall diameter of the wire is less than 2.2 mm, do not insert the wire past the conductor. Refer to the following diagrams.



**2.** If the overall diameter of the wire is over 3.2 mm, it will be difficult to use double wiring.

## Examples of Applicable Wires (Confirmed Using Catalog Information)

| Type of wire                     | Conductor type | See note 1, above.  | Recommended wire sizes              | See note 2, above.  |
|----------------------------------|----------------|---------------------|-------------------------------------|---------------------|
| Equipment wire 2491X             | Flexible       |                     | 0.5, 0.75, 1.0 mm <sup>2</sup>      | 1.5 mm <sup>2</sup> |
| BS6004                           | Solid          | 0.5 mm <sup>2</sup> |                                     |                     |
| Switchgear BS6231                | Solid          |                     | 1.0 mm <sup>2</sup>                 | 1.5 mm <sup>2</sup> |
| Switchgear BS6231                | Flexible       |                     | 0.5, 0.75 mm <sup>2</sup>           | 1.0 mm <sup>2</sup> |
| Tri-rated control and switchgear | Flexible       |                     | 0.5, 0.75, 1.0, 1.5 mm <sup>2</sup> |                     |
| Conduit                          | Stranded       |                     | 1.5 mm <sup>2</sup>                 |                     |
| UL1007                           | Flexible       | 18AWG               | 16AWG                               |                     |
| UL1015                           | Flexible       |                     | 18AWG, 16AWG                        |                     |
| UL1061                           | Flexible       | 18AWG               |                                     |                     |
| UL1430                           | Flexible       | 18AWG               | 16AWG                               |                     |

# ■ Wiring

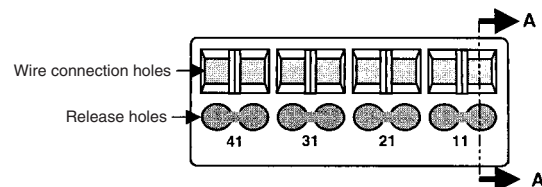
Use wires of the applicable sizes specified above. The length of the exposed conductor should be 8 to 9 mm.



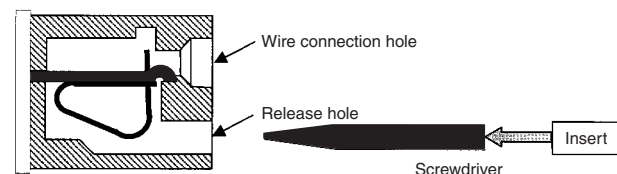
**Fig. 1 Exposed Conductor Length**

Use the following wiring procedure.

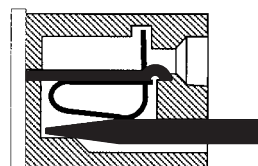
1. Insert the specified screwdriver into the release hole located beside the wire connection hole where the wire is to be inserted.



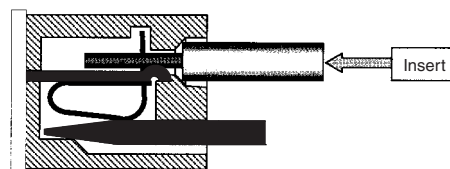
**Fig. 2 Wire Connection Holes and Release Holes**



**Fig. 3 Section A-A of Fig. 2**



2. Insert the exposed conductor into the wire connection hole.



3. Pull out the screwdriver.



# Precautions

## Precautions for Connection

- Do not move the screwdriver up, down, or from side to side while it is inserted in the hole. Doing so may cause damage to internal components (e.g., deformation of the coil spring or cracks in the housing) or cause deterioration of insulation.
- Do not insert the screwdriver at an angle. Doing so may break the side of socket and result in a short-circuit.



- Do not insert two or more wires in the hole. Wires may come in contact with the spring causing a temperature rise or be subject to sparks. (There are two wiring holes for each terminal.)



- Insert the screwdriver along the hole wall as shown below.



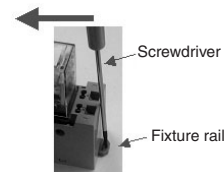
- If lubricating liquid, such as oil, is present on the tip of screwdriver, the screwdriver may fall out resulting in injury to the operator.
- Insert the screwdriver into the bottom of the hole. It may not be possible to connect cables properly if the screwdriver is inserted incorrectly.

## General Precautions

- Use the clip to prevent relays floating or falling out of the socket.
- Do not use the product if it has been dropped on the ground. Dropping the product may adversely affect performance.
- Confirm that the socket is securely attached to the mounting track before wiring. If the socket is mounted insecurely it may fall and injure the operator.
- Ensure that the socket is not charged during wiring and maintenance. Not doing so may result in electric shock.
- Do not pour water or cleansing agents on the product. Doing so may result in electric shock.
- Do not use the socket in locations subject to solvents or alkaline chemicals.
- Do not use the socket in locations subject to ultraviolet light (e.g., direct sunlight). Doing so may result in markings fading, rust, corrosion, or resin deterioration.
- Do not dispose of the product in fire.

## Removing from Mounting Rail

To remove the socket from the mounting rail, insert the tip of screwdriver in the fixture rail, and move it in the direction shown below.



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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