



HIGH WITHSTAND VOLTAGE FUSE HOLDER

# PFH TYPE

*Applicable to PV fuse for photovoltaic module*



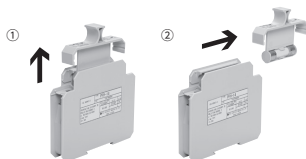
## FEATURES

### Applicable to high withstand voltage fuse

Applicable to PV fuse of  $\phi 10 \times 38$  size for photovoltaic module.

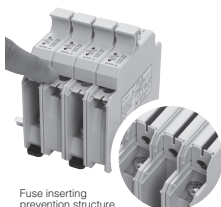
### Dual actions

To remove a fuse, ① pull and ② slide the fuse.



### Structure to prevent electric shock caused by accidental touch and fuse insertion during wiring

When the cover is lowered, the user hardly touches the live part. This structure ensures high safety. When the cover is raised, the cover blocks fuse insertion during wiring.



### Rated insulation voltage: 1,500 V DC

The fuse holder provides 1,500 V DC insulation characteristic.

\*1 Conforming to IEC 60947-3 (Equivalent to JIS C 8201-3)

\*2 If required insulation voltage is higher than 600 V, assemble the units so that heights of the screw terminals are staggered.

### Quick and easy DIN-rail mounting and removal are enabled by unit.

By operating the stopper, you can remove each unit easily without detaching the fastening bracket.



### A removed fuse carrier can be temporarily set on the holder.

A fuse carrier can be temporarily set on the holder through insertion into the holder cover.



## SPECIFICATIONS (RATINGS, PERFORMANCE, STANDARD OPERATING CONDITION)

| Item                                  | Detail                                 |
|---------------------------------------|----------------------------------------|
| Rated Insulation Voltage (Ui)         | 1,500V DC / 1,000V AC                  |
| Rated current-carrying capacity (Ith) | 30A DC                                 |
| Rated impulse withstand voltage       | 12kV                                   |
| Rated frequency                       | 50 / 60Hz, DC                          |
| Rated duty                            | Uninterrupted duty                     |
| Rated applicable wire                 | 14mm <sup>2</sup>                      |
| Rated connecting capacity             | 5.5 ~ 14mm <sup>2</sup>                |
| Tightening torque                     | 2.0N·m                                 |
| Screw size                            | M5×10                                  |
| Max. number of connections            | 2 wires / 1 terminal                   |
| Applicable fuse size                  | φ10×38                                 |
| Operating load class                  | DC-20B                                 |
| Ambient operating temperature         | -25 to 60°C                            |
| Storing temperature                   | -40 to 85°C                            |
| Relative humidity                     | 85% or less (Storing temperature 40°C) |
|                                       | 90% or less (Storing temperature 20°C) |
| Altitude                              | 2,000 m or less                        |
| Pollution degree                      | Pollution degree 3                     |

\* For compatible fuse size, see the list of compatible fuses for installation on page C182.

## HOW TO ORDER

### PFH-14×10-XD-11

①      ②      ③      ④

| No. | Item         | Code        | Detail                                                                   |
|-----|--------------|-------------|--------------------------------------------------------------------------|
| ①   | Basic type   | PFH         | —                                                                        |
| ②   | Wire size    | 14          | 14mm <sup>2</sup> max.                                                   |
| ③   | No. of poles | 1 to max.*1 | For more details, please see page C181 for table of assembled dimensions |
| ④   | Rail         | XD          | TXB-Drail type : Punched rail (DIN rail)                                 |
|     |              | XF          | TXB-Frail type : U-cut rail (DIN rail)                                   |
|     |              | KD          | TKB-Drail type : Reinforced punched rail (DIN rail)                      |

\*1 Max. pole number is less than 600mm of rail length.  
(In case over 600mm, max. pole No. is less than 1,000mm of reinforced rail (TKB-D).)

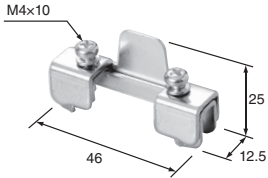


## C181

## ACCESSORIES

### End clamp (Order unit: 50)

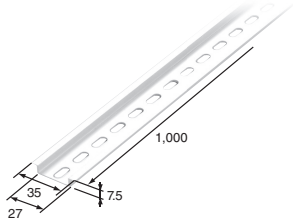
#### ●TXL



### Aluminium rail (DIN rail)

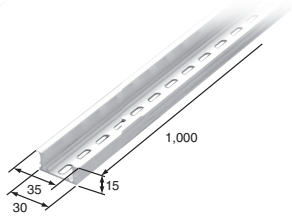
#### ●TXB (Standard)

(Order unit: 50)



#### ●TKB (Reinforced type)

(Order unit: 20)



### Rail cap

(Order unit: 100)

#### ●Cap for DIN rail TXB CAP-PVC



(Example of usage)

#### ●Cap for DIN rail (High-strength type) TKB CAP-PVC



(Example of usage)

\* Only single product sale.

## List of applicable fuses

For selection of the fuse holder, see the reference material of the fuse manufacturer.

### ■Size : $\phi 10 \times 38$

| Maker      | Type      |
|------------|-----------|
| MERSEN     | HP10M□    |
| SIBA       | 5021526.□ |
| Littelfuse | OSPF□.T   |
| Bussmann   | PV-□A10F  |
| SCHURTER   | 0090.□    |

\* □ indicates a rated operating current of 1 to 30 A.



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## Caution

### Precautions for use

- Thoroughly check the operating conditions of the product with the specifications and outline drawing.
- Do not use the product in a condition exceeding the ratings, specifications and characteristic of the product. Failure to observe this instruction causes a fault of the product.
- Do not apply force in any direction other than the specified operating direction.

### Precautions for use, storage and transportation

- Avoid use and storage of the product in a place where the product may be exposed to ozone or corrosive gas. Otherwise, sulfide film or oxide film may deposit on the contact surface, causing unstable contact operation or contact failure.
- During storage and transportation of the product, avoid exposure to direct sunlight, and keep the product at normal temperature and normal humidity.
- If the ambient temperature rapidly changed in high-temperature/high-humidity environment, condensation may occur in the switch, which causes deterioration of insulation, break of coil, rusting, etc.
- Exercise caution about freezing when the ambient temperature becomes 0°C or lower. Freezing causes adhesion of moving parts and contact failure.

### Precautions for mounting, removal and wiring

- If the product falls, product performance may deteriorate. In this case, do not use this product. To use this product, be sure to check appearance, specifications and performance of the product.
- Do not remove screws other than the terminal screw. Failure to observe this instruction cause a fault of the product.
- Incorrect connection may result in unintended operation, abnormal heating and fire.
- When mounting or removing the product, make sure that the product is not alive.
- For wiring of the product, be sure to use applicable cable and crimp terminal, in consideration of applied voltage and current.
- The insulation characteristic of the product is based on the assumption that the product is mounted to a DIN rail.

### Precautions for inspection

- To clean the fuse holder, do not use a paint thinner, etc. Using a paint thinner causes damage to the resin material of the lever, unit body, cover, etc.
- To clean the product, use vacuum, instead of air blow. Using air blow causes dust intrusion into the switch, resulting in contact failure.
- Do not disassemble the product during cleaning. Disassembling the product causes a fault of the product.