



HIGH WITHSTAND VOLTAGE FUSE HOLDER

# PFH TYPE

*Applicable to PV fuse for photovoltaic module*



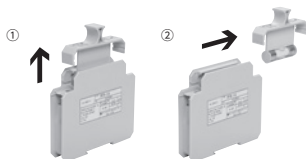
## FEATURES

### Applicable to high withstand voltage fuse

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

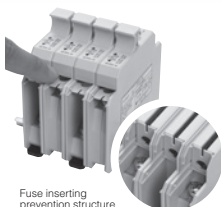
### Dual actions

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).)



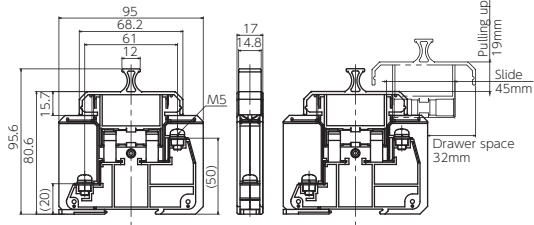
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## STANDARD PRODUCTS

### PFH-14 (30A DC)

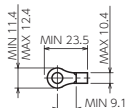
Wire size: 5.5 to 14mm<sup>2</sup> (M5)



#### ●Applicable accessories

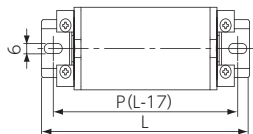
Standard rail	TXB (Standard)
	TKB (Reinforced type)
End clamp	TXL

#### ●Applicable crimp terminal



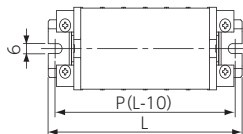
## TABLE OF ASSEMBLED DIMENSIONS

### TXB-D or TKB-D type



Pole	P	L	Rail	Pole	P	L	Rail
1	40	57	XD-KD-3	29	520	537	XD-KD-27
2	60	77	XD-KD-4	30	540	557	XD-KD-28
3	80	97	XD-KD-5	31	560	577	XD-KD-29
4	100	117	XD-KD-6	32	580	597	XD-KD-30
5	120	137	XD-KD-7	33	580	597	XD-KD-30
6	120	137	XD-KD-7	34	600	617	KD-31
7	140	157	XD-KD-8	35	620	637	KD-32
8	160	177	XD-KD-9	36	640	657	KD-33
9	180	197	XD-KD-10	37	660	677	KD-34
10	200	217	XD-KD-11	38	680	697	KD-35
11	220	237	XD-KD-12	39	700	717	KD-36
12	240	257	XD-KD-13	40	700	717	KD-36
13	240	257	XD-KD-13	41	720	737	KD-37
14	260	277	XD-KD-14	42	740	757	KD-38
15	280	297	XD-KD-15	43	760	777	KD-39
16	300	317	XD-KD-16	44	780	797	KD-40
17	320	337	XD-KD-17	45	800	817	KD-41
18	340	357	XD-KD-18	46	800	817	KD-41
19	360	377	XD-KD-19	47	820	837	KD-42
20	360	377	XD-KD-19	48	840	857	KD-43
21	380	397	XD-KD-20	49	860	877	KD-44
22	400	417	XD-KD-21	50	880	897	KD-45
23	420	437	XD-KD-22	51	900	917	KD-46
24	440	457	XD-KD-23	52	920	937	KD-47
25	460	477	XD-KD-24	53	920	937	KD-47
26	460	477	XD-KD-24	54	940	957	KD-48
27	480	497	XD-KD-25	55	960	977	KD-49
28	500	517	XD-KD-26	56	980	997	KD-50

### TXB-F type



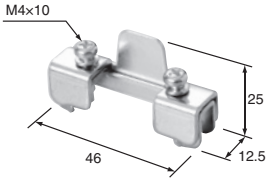
Pole	P	L	Rail	Pole	P	L	Rail
1	45	55	XF-55	18	335	345	XF-345
2	60	70	XF-70	19	350	360	XF-360
3	80	90	XF-90	20	365	375	XF-375
4	95	105	XF-105	21	385	395	XF-395
5	110	120	XF-120	22	400	410	XF-410
6	130	140	XF-140	23	420	430	XF-430
7	145	155	XF-155	24	435	445	XF-445
8	165	175	XF-175	25	450	460	XF-460
9	180	190	XF-190	26	470	480	XF-480
10	195	205	XF-205	27	485	495	XF-495
11	215	225	XF-225	28	505	515	XF-515
12	230	240	XF-240	29	520	530	XF-530
13	250	260	XF-260	30	535	545	XF-545
14	265	275	XF-275	31	555	565	XF-565
15	280	290	XF-290	32	570	580	XF-580
16	300	310	XF-310	33	590	600	XF-600
17	315	325	XF-325				

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

## ACCESSORIES

### End clamp (Order unit: 50)

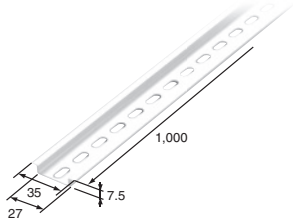
#### ●TXL



### Aluminium rail (DIN rail)

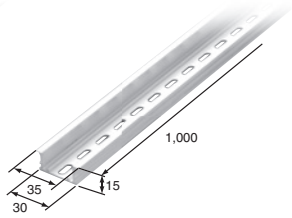
#### ●TXB (Standard)

(Order unit: 50)



#### ●TKB (Reinforced type)

(Order unit: 20)



### 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 fails, 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.