

## Surge protection plug - PT 4X1/S-24DC-ST - 2800264


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Protective plug PT with protective circuit for 4 conductors of signal circuits grounded on one side. Nominal voltage: 24 V DC



### Key commercial data

Packing unit	10 pc
Minimum order quantity	50 pc
GTIN	 4 046356 542753
Weight per Piece (excluding packing)	21.75 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Height	45 mm
Width	17.7 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

#### General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black

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## Technical data

### General

Standards for air and creepage distances	EN 60664-1
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Number of positions	4
Direction of action	Line-Line & Line-Earth Ground

### Protective circuit

IEC test classification	C1
	C3
VDE requirement class	C1
	C3
Nominal voltage $U_N$	24 V DC
Maximum continuous operating voltage $U_C$	30 V DC
	21 V AC
Maximum continuous voltage $U_C$ (wire-ground)	30 V DC
	21 V AC
Nominal current $I_N$	6 A ( $\leq 40$ °C)
Operating effective current $I_C$ at $U_C$	$\leq 5$ $\mu$ A
	$\leq 20$ $\mu$ A (60 Hz)
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth)	310 A
Total surge current (8/20) $\mu$ s	1.2 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)	310 A
	1.2 kA (all channels)
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	62 A
	248 A (all channels)
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static	$\leq 45$ V
Residual voltage at $I_n$ , (conductor-ground)	$\leq 50$ V
Residual voltage with $I_{an}$ (10/1000) $\mu$ s (conductor-ground)	$\leq 50$ V
Voltage protection level $U_p$ (core-ground)	$\leq 45$ V (C1 - 250 A)
	$\leq 50$ V (C1 - 310 A)
	$\leq 45$ V (C3 - 10 A)
	$\leq 50$ V (C3 - 62 A)
Response time $t_A$	$\leq 1$ ns
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
Input attenuation $a_E$ , asym.	typ. 0.3 dB (up to 500 kHz - 50 $\Omega$ )
	typ. 0.1 dB (up to 150 kHz - 150 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 50 Ohm system	typ. 3 MHz
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 1 MHz
Capacity (Core-Earth)	typ. 2 nF
Max. required back-up fuse	6 A (gL/MSB type B,C)
Impulse durability (conductor-ground)	C1 (310 A)

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## Technical data

### Protective circuit

	C3 (62 A)
Alternating current carrying capacity (conductor-ground)	1 A (5x 1 s)

### Connection data

Connection method	Screw connection (in connection with the base element)
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201

### ETIM

ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000943

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Accessories

### Accessories

#### Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

#### Labeled terminal marker

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### Accessories

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

### Terminal marking

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### Accessories

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

Zack Marker strip, flat - ZBF 5/WH-100:UNBEDRUCKT - 0808668



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

### Additional products

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black