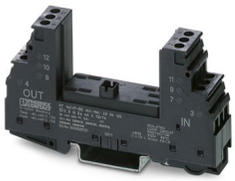
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PT 1X2+F-BE - Surge protection base-element

2856126

https://www.phoenixcontact.com/gb/products/2856126

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Base element for protective plug PT with protective circuit for a 2-core floating signal circuit. Integrated gas arrester as coarse protection between GND and PE. Mounting on NS 35/7.5 und NS 35/15, housing width: 17.5 mm.

Your advantages

- Maximum ease of maintenance, thanks to the 2-piece design
- Easy selection for all possible demands in MCR applications with a complete product portfolio
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial data

Item number	2856126
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL2111
Product key	CL2111
Catalog page	Page 122 (C-4-2019)
GTIN	4017918599270
Weight per piece (including packing)	55.08 g
Weight per piece (excluding packing)	46.381 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Notes

Notes on operation	In the base elements PT...+F-BE, the connections 9/10 (GND) are linked to the mounting foot via a gas-filled surge arrester.

Product properties

Product type	Base element
Product family	PLUGTRAB PT
Type	Base element, DIN rail mounting
Number of positions	2
Surge protection fault message	none
Wire pairs per module	1

Insulation characteristics

Overvoltage category	III
Pollution degree	2

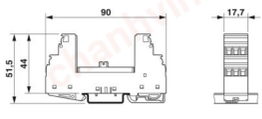
Electrical properties

Nominal voltage U_N	48 V DC

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	17.7 mm
Height	90 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Material specifications

Color	black (RAL 9005)
	Copper
Flammability rating according to UL 94	V-0

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PT 1X2+F-BE - Surge protection base-element

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Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Direction of action	Signal Ground/Shield-Earth Ground
Maximum continuous voltage U_C	53 V DC
	37 V AC
Rated current	450 mA (45 °C)
Resistance per path	2.2 Ω ±10 %
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl)

Approvals

Conformity/Approvals

ATEX	Ⓔx II 3 G Ex nA II T6/T4 X

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

Mounting

Mounting type	DIN rail: 35 mm

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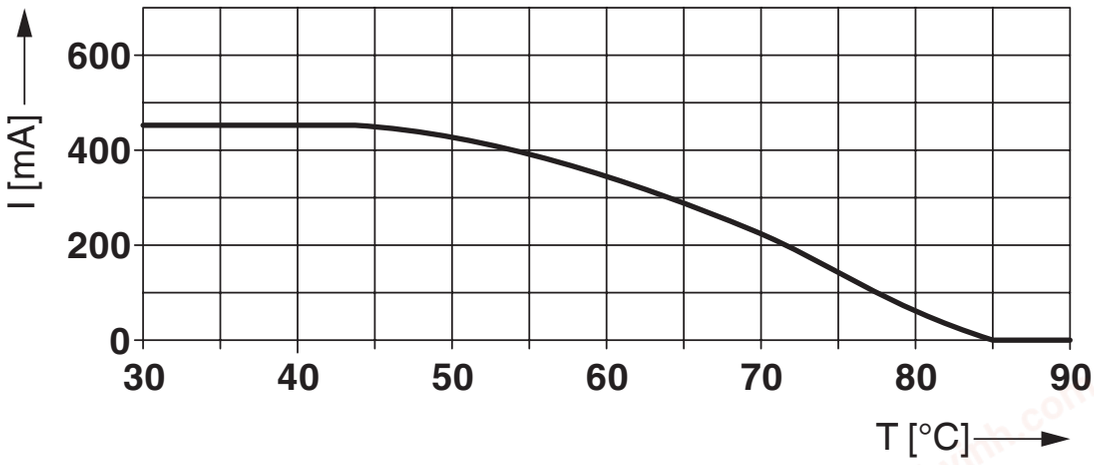
PT 1X2+F-BE - Surge protection base-element

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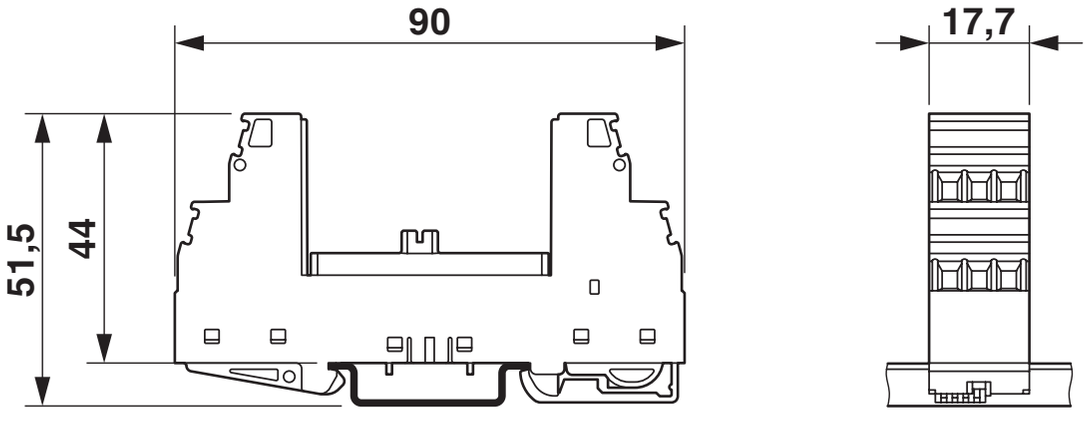
https://www.phoenixcontact.com/gb/products/2856126

Drawings

Diagram



Dimensional drawing



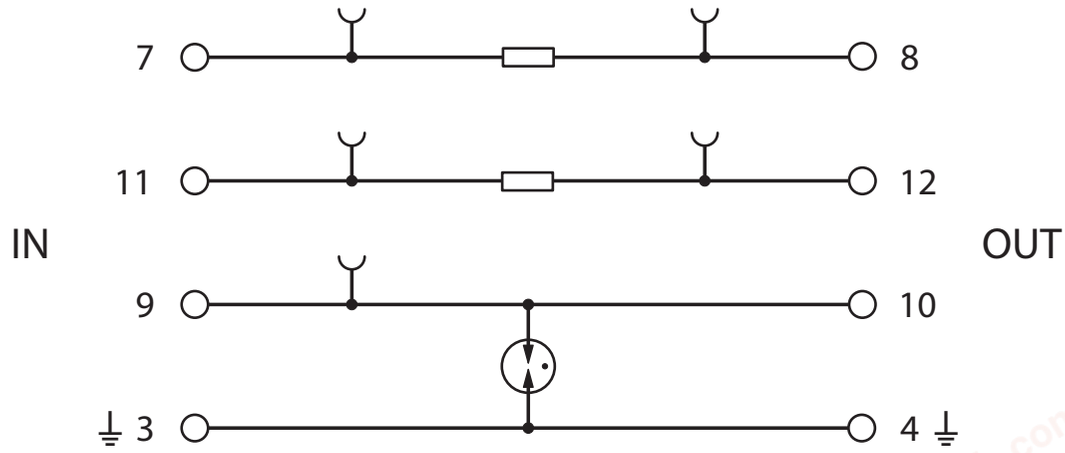
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2856126

EAC
Approval ID: EAC-Zulassung

DNV GL
Approval ID: TAE00001N6

EAC
Approval ID: RU C-DE.*09.B.00169

UL Listed
Approval ID: FILE E 138168

CCC
Approval ID: 2020322316002243

cUL Listed
Approval ID: FILE E 333250

UL Listed
Approval ID: FILE E 333250

CCC
Approval ID: 2020322316002243

ATEX
Approval ID: DEKRA 22ATEX0044 X

IECEx
Approval ID: IECEx DEK 22.0031X

UKCA-EX
Approval ID: DEKRA 22UKEX6005X

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NEPSI-EX
Approval ID: GYJ20.1180X

CCC
Approval ID: 2020322316003150

CCC
Approval ID: 2020322316003150

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27130803
ECLASS-13.0	27171592

ETIM

ETIM 9.0	EC002497

UNSPSC

UNSPSC 21.0	39121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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PT 1X2+F-BE - Surge protection base-element

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Accessories

ZB 5 :UNBEDRUCKT - Zack marker strip

1050004

https://www.phoenixcontact.com/gb/products/1050004

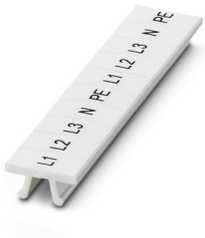


Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.1 x 10.5 mm, Number of individual labels: 10

ZB 5,LGS:L1-N,PE - Zack marker strip

1050415

https://www.phoenixcontact.com/gb/products/1050415



Zack marker strip, Strip, white, labeled, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10

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PT 1X2+F-BE - Surge protection base-element

2856126

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ZB 5,8:UNBEDRUCKT - Zack marker strip

2715209

https://www.phoenixcontact.com/gb/products/2715209



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.8 mm, lettering field size: 5.75 x 10.5 mm, Number of individual labels: 10

ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

https://www.phoenixcontact.com/gb/products/0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

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PT 1X2+F-BE - Surge protection base-element

2856126

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ZB 5,8 CUS - Zack marker strip

0824965

https://www.phoenixcontact.com/gb/products/0824965



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.8 mm, lettering field size: 5.75 x 10.5 mm, Number of individual labels: 10

PT 1X2- 5DC-ST - Surge protection plug

2856016

https://www.phoenixcontact.com/gb/products/2856016



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

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PT 1X2+F-BE - Surge protection base-element

2856126

https://www.phoenixcontact.com/gb/products/2856126

PT 1X2-12AC-ST - Surge protection plug

2856045

https://www.phoenixcontact.com/gb/products/2856045



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

PT 1X2-12DC-ST - Surge protection plug

2856029

https://www.phoenixcontact.com/gb/products/2856029



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

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PT 1X2+F-BE - Surge protection base-element

2856126

https://www.phoenixcontact.com/gb/products/2856126

PT 1X2-24AC-ST - Surge protection plug

2856058

https://www.phoenixcontact.com/gb/products/2856058



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

PT 1X2-24DC-ST - Surge protection plug

2856032

https://www.phoenixcontact.com/gb/products/2856032



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

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PT 1X2+F-BE - Surge protection base-element

2856126

https://www.phoenixcontact.com/gb/products/2856126

PT 1X2-48DC-ST - Surge protection plug

2803658

https://www.phoenixcontact.com/gb/products/2803658



Protective plug PT with protective circuit for a 2-wire floating signal circuit.

PT 3-PB-ST - Surge protection plug

2858030

https://www.phoenixcontact.com/gb/products/2858030



Surge protection plug for the base element, normal mode voltage coarse and fine protection for two floating signal wires in IT, common mode voltage coarse protection to ground.

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PT 1X2+F-BE - Surge protection base-element

2856126

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PT 2-TELE-ST - Surge protection plug

2838733

https://www.phoenixcontact.com/gb/products/2838733



Surge protection plug for base element, for protecting a double conductor of analog telecommunication interfaces.

SSA 3-6 - Shield connection

2839295

https://www.phoenixcontact.com/gb/products/2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm^2, color: black

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PT 1X2+F-BE - Surge protection base-element

2856126

https://www.phoenixcontact.com/gb/products/2856126

SSA 5-10 - Shield connection

2839512

https://www.phoenixcontact.com/gb/products/2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm^2, color: black

X-PEN 0,35 - Marker pen

0811228

https://www.phoenixcontact.com/gb/products/0811228



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

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PT 1X2+F-BE - Surge protection base-element

2856126

https://www.phoenixcontact.com/gb/products/2856126

B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/gb/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

SZS 0,6X3,5 VDE - Screwdriver

1212602

https://www.phoenixcontact.com/gb/products/1212602



Screwdriver, slot-headed, VDE insulated, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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