PT 2XEX(I)-BE - Surge protection base-element

2839279

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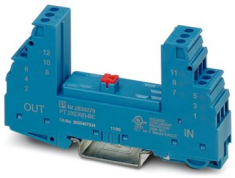


Base element for protective plug PT with protective circuit for two 2-core floating EEx ia signal circuits. Mounting on NS 35/7.5 and NS 35/15, housing width: 17.5 mm

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	2839279
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL21
Product key	CL2113
GTIN	4017918182885
Weight per piece (including packing)	75.3 g
Weight per piece (excluding packing)	62.43 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Product properties

Product type	Base element
Product family	PLUGTRAB PT
Type	Base element, DIN rail mounting
Number of positions	4
Wire pairs per module	2

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal voltage U_N	24 V DC

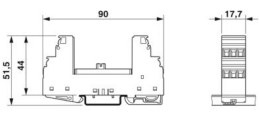
Connection data

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

Ex data

Maximum inner capacitance C_i	1.3 nF
Max. internal inductance L_i	1 µH
Max. input current I_i	325 mA (T4 / ≤ 80°C)
	325 mA (T5 / ≤ 55 °C)
	325 mA (T6 / ≤ 40 °C)
Max. input voltage U_i	30 V DC
max. input power P_i	3.00 W
Maximum inner time factor (R_i/L_i)	≤ 0.2 µs
Ambient temperature (operation)	-40 °C ... 80 °C (T4)
	-40 °C ... 55 °C (T5)
	-40 °C ... 40 °C (T6)

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	blue (RAL 5015)
	copper color
Flammability rating according to UL 94	V-0
Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	30 V DC
	21 V AC
Rated current	325 mA (≤ 40 °C)
Resistance per path	2.2 Ω ±10 %
Surge protection fault message	none
Max. required back-up fuse	315 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 1 G Ex ia IIC T4...T6
	Ⓔx II 1 D Ex iaD 20 IP6x T85 °C...135 °C

Standards and regulations

Standards/specifications	EN 61643-21
Note	A2:2013
Standards/specifications	EN 60079-0
Note	2018
Standards/specifications	EN 60079-11
Note	2012
Standards/specifications	IEC 60079-0
Note	2017

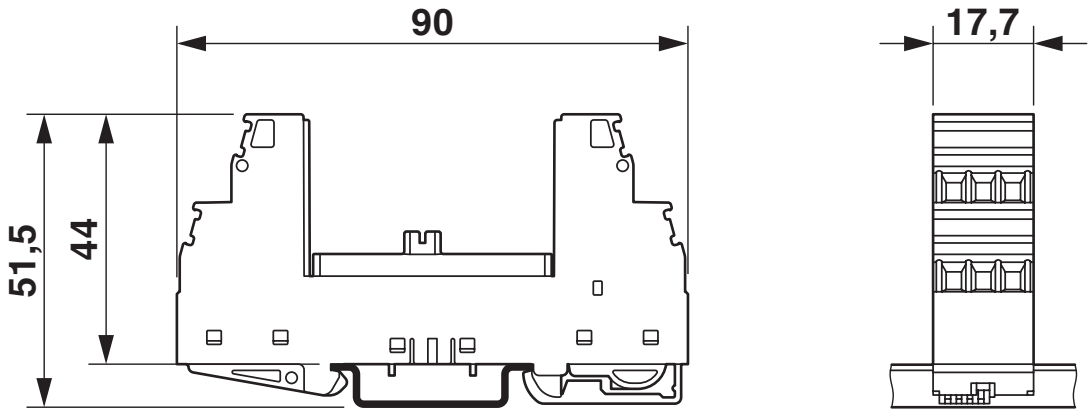
Standards/specifications	IEC 60079-11
Note	2011
Standards/specifications	GB/T 3836.1
Note	2021
Standards/specifications	GB/T 3836.4
Note	2021

Mounting

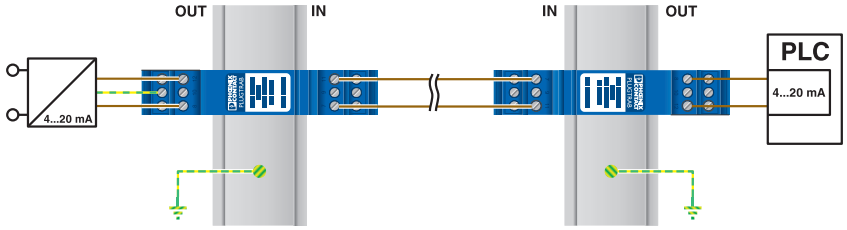
Mounting type	DIN rail: 35 mm

Drawings

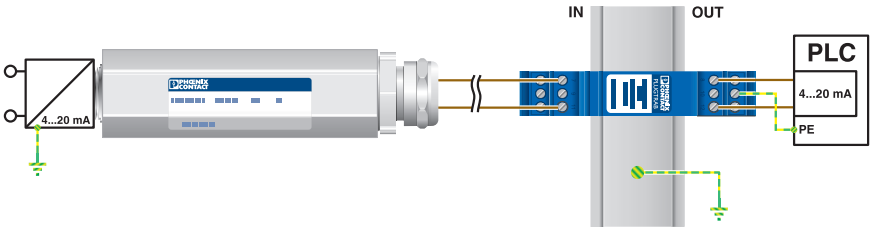
Dimensional drawing



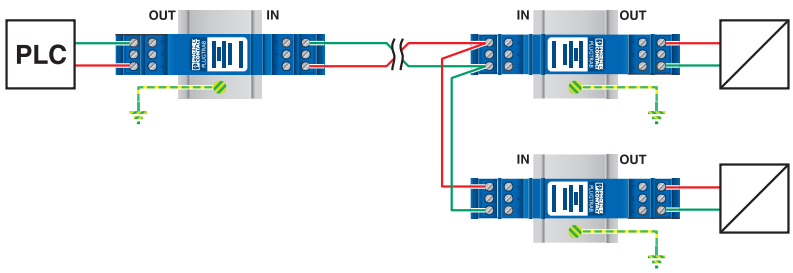
Application drawing



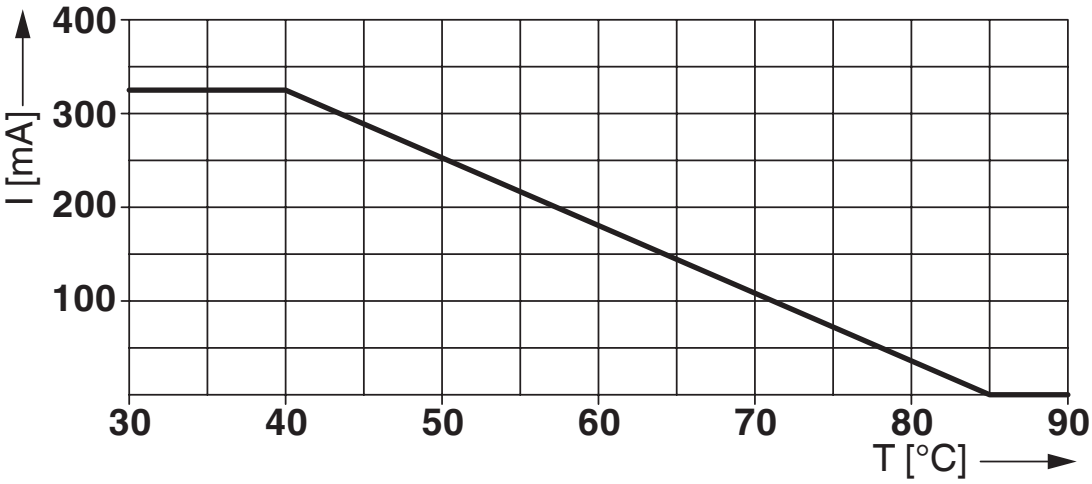
Application drawing



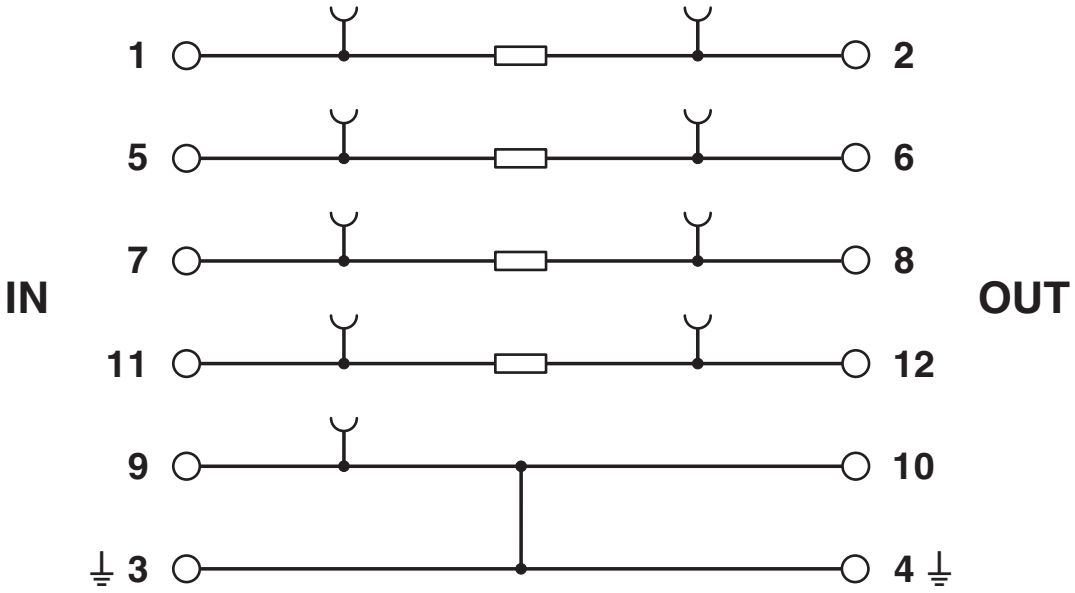
Application drawing



Diagram



Circuit diagram



Approvals

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DNV GL
Approval ID: TAE00001N6

UL Listed
Approval ID: FILE E 138168

ATEX
Approval ID: KEMA 00ATEX1099 X

IECEx
Approval ID: IECEx KEM 10.0063X

cUL Listed
Approval ID: FILE E 333250

UL Listed
Approval ID: FILE E 333250

INMETRO
Approval ID: DNV 19.0031 X/01

UKCA-EX
Approval ID: DEKRA 21UKEX0234 X

CCC
Approval ID: 2020322316001009

Classifications

ECLASS

ECLASS-13.0	27171592
ECLASS-15.0	27171592

ETIM

ETIM 10.0	EC002497

UNSPSC

UNSPSC 21.0	39121600

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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