

# BXT-4XP-SEC-T3-120+1X2-24 - Surge protection device



2908684

<https://www.phoenixcontact.com/us/products/2908684>

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Wall-mounted NEMA 4/4X (IP66/67) polycarbonate enclosure with surge protection for 120 V AC/DC power and one 24 V DC loop with 28 V DC MCOV

## Your advantages

- Eligible for limited lifetime warranty (in some U.S. markets)
- Customizable: expand base unit with SPDs to suit your application
- Polycarbonate and 316L stainless steel enclosures available
- UL 1449 Listed SPD
- Single solution for power, data, and signal in one enclosure

## Commercial data

Item number	2908684
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL20
Product key	CL1481
GTIN	4055626321486
Weight per piece (including packing)	720 g
Weight per piece (excluding packing)	544 g
Country of origin	DE

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## Set consists of

### PLT-SEC-T3-120-FM-UT - Type 3 surge protection device

2907918

<https://www.phoenixcontact.com/us/products/2907918>



Type 2/3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 120 V AC/DC

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

2856032

<https://www.phoenixcontact.com/us/products/2856032>



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

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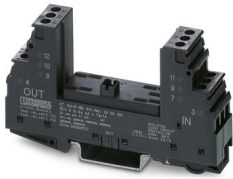
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## PT 1X2+F-BE - Surge protection base-element

2856126

<https://www.phoenixcontact.com/us/products/2856126>

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.



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## Technical data

### Notes

#### Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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### Product properties

Product type	Device protection
Type	DIN rail module, two-section, divisible
Surge protection fault message	optical
EN type	T2 / T3
Number of ports	One

### Electrical properties

Nominal voltage $U_N$	120 V AC (Power)
	24 V DC (Signal)

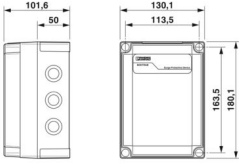
#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact

### Connection data

Screw thread	M3
Tightening torque, min	0.5 Nm
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	4 mm <sup>2</sup>
Connection method	Screw connection
Screw thread	M3

### Dimensions

Dimensional drawing	
Width	130 mm
Height	180 mm
Depth	120 mm

### Material specifications

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Housing material	PC
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## Protective circuit

### Power supplies

Direction of action	L/N-PE & Signal Line-Shield-Earth Ground
Nominal voltage $U_N$	120 V AC (TN-S)
	120 V AC (TT)

### Information technology

Nominal voltage $U_N$	120 V AC (Power)
	24 V DC (Signal)
Max. operating voltage $U_{max}$	150 V AC (Power)
	28 V DC (Signal)
Nominal current $I_N$	20 A (Power)
	450 mA (Signal)
Max. discharge current $I_{max}$ (8/20) $\mu$ s	10 kA (Power)
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-line)	10 kA (Signal)
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-earth)	10 kA (Signal)
Resistance per path	2.2 $\Omega$ (Signal)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66/NEMA 4X
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq$ 2000 mm
Permissible humidity (operation)	5 % ... 95 %

## Approvals

### UL specifications

Maximum continuous operating voltage MCOV	150 V AC/DC
Short-circuit current rating (SCCR)	10 kA
Voltage protection rating VPR (L-N)	700 V
Voltage protection rating VPR (L-G)	1000 V
Voltage protection rating VPR (N-G)	900 V
Voltage protection rating VPR (DC+) - (DC-)	700 V
Voltage protection rating VPR (DC+) - G	1000 V
Voltage protection rating VPR (DC-) - G	900 V
UL type	type 2
Nominal discharge current $I_n$	5 kA
Maximum Circuit Breaker	25.00 A
Maximum Surge Current per Phase	20 A

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## Mounting

Mounting type

Panel mounting

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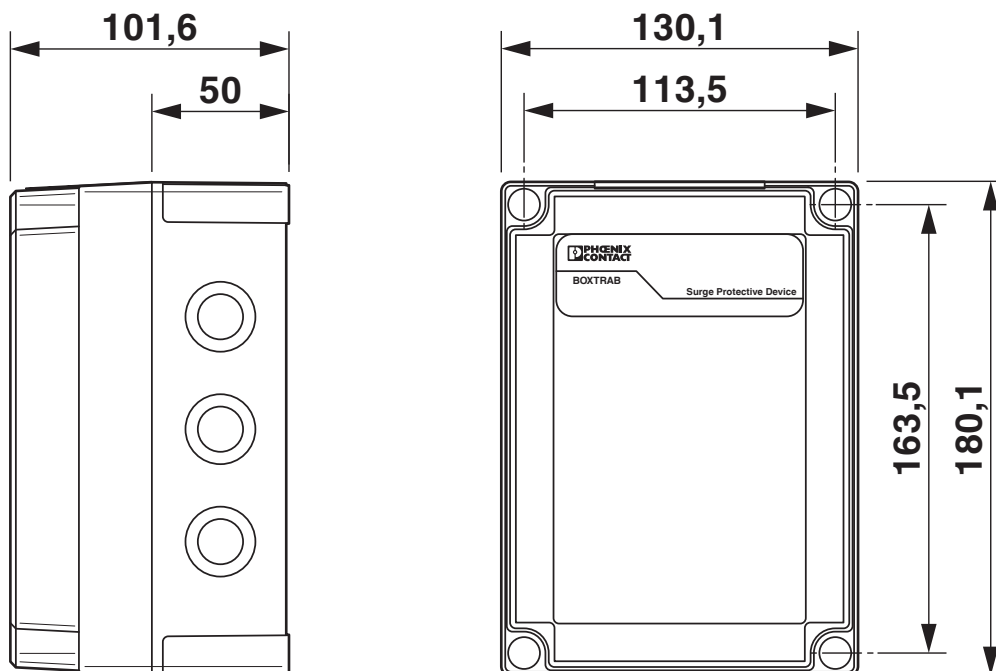


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## Drawings

Dimensional drawing



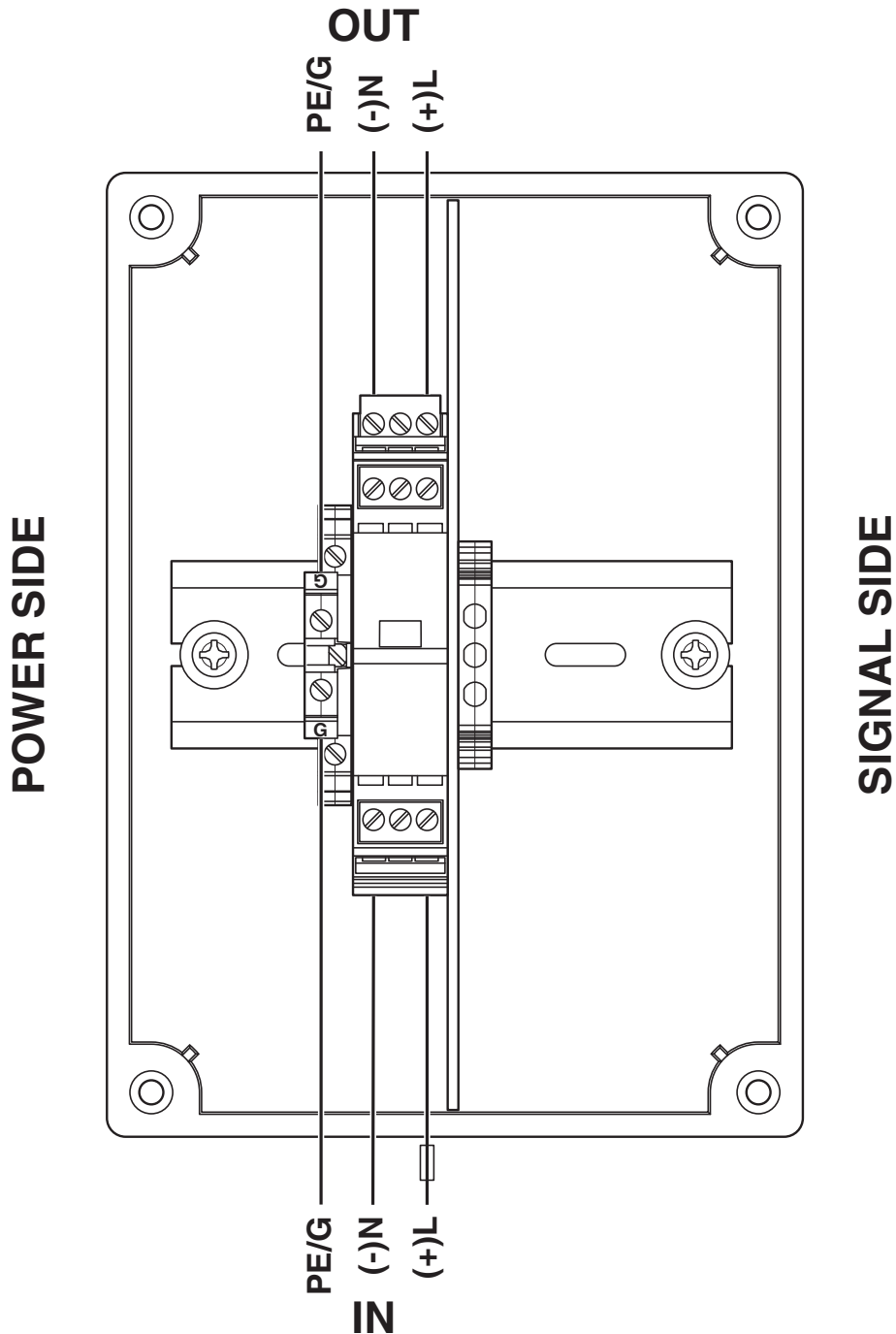
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Connection diagram



Connections for power protection only are shown. For signal protection connection, refer to included article datasheet. Signal and power protection may be bonded through DIN rail.

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2908684>



**UL Listed**

Approval ID: FILE E 330181



**cUL Listed**

Approval ID: FILE E 330181

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## Classifications

### ECLASS

ECLASS-13.0	27171602
ECLASS-15.0	27171602

### ETIM

ETIM 10.0	EC001625
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
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### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)