

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

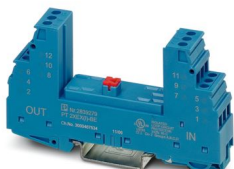


2839279

<https://www.phoenixcontact.com/us/products/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) | 75.61 g       |
| Weight per piece (excluding packing) | 62.43 g       |
| Customs tariff number                | 85363010      |
| Country of origin                    | DE            |

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## 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| 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   |

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|                  |                                 |
|------------------|---------------------------------|
| 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

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Maximum continuous operating voltage $U_C$ | 30 V DC                            |
|                                            | 21 V AC                            |
| Rated current                              | 325 mA ( $\leq 40^\circ\text{C}$ ) |
| Resistance per path                        | $2.2\ \Omega \pm 10\ \%$           |
| 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)         | $-40^\circ\text{C} \dots 85^\circ\text{C}$ |
| Ambient temperature (storage/transport) | $-40^\circ\text{C} \dots 85^\circ\text{C}$ |
| Altitude                                | $\leq 2000\text{ m (amsl)}$                |

## Approvals

### Conformity/Approvals

|      |                                          |
|------|------------------------------------------|
| ATEX | Ex II 1 G Ex ia IIC T4...T6              |
|      | Ex 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 |

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|                          |             |
|--------------------------|-------------|
| 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 |
|---------------|-----------------|

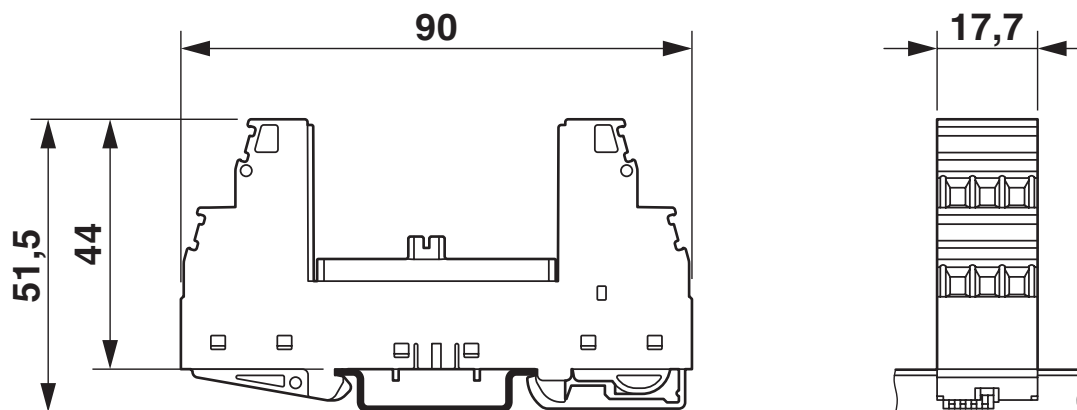
# PT 2XEX(I)-BE - Surge protection base-element

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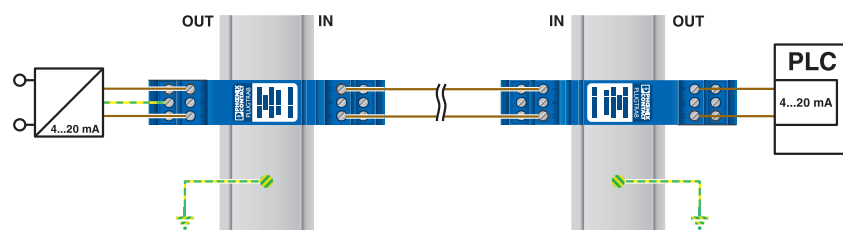
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## Drawings

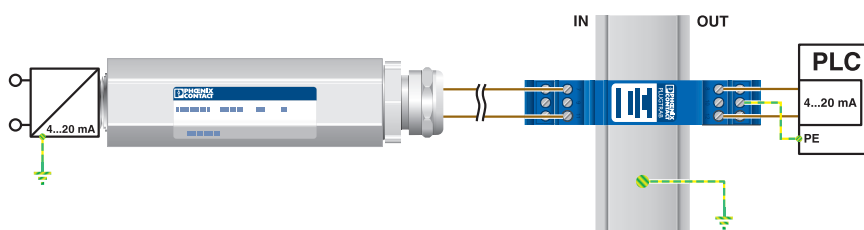
Dimensional drawing



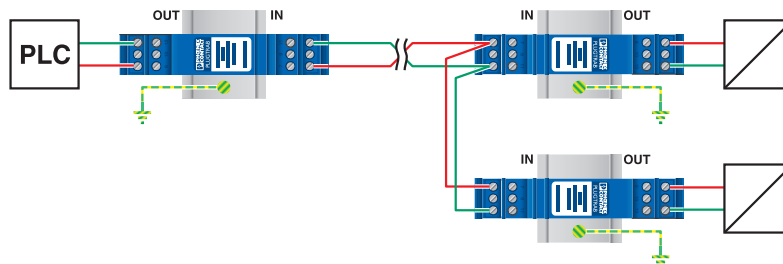
Application drawing



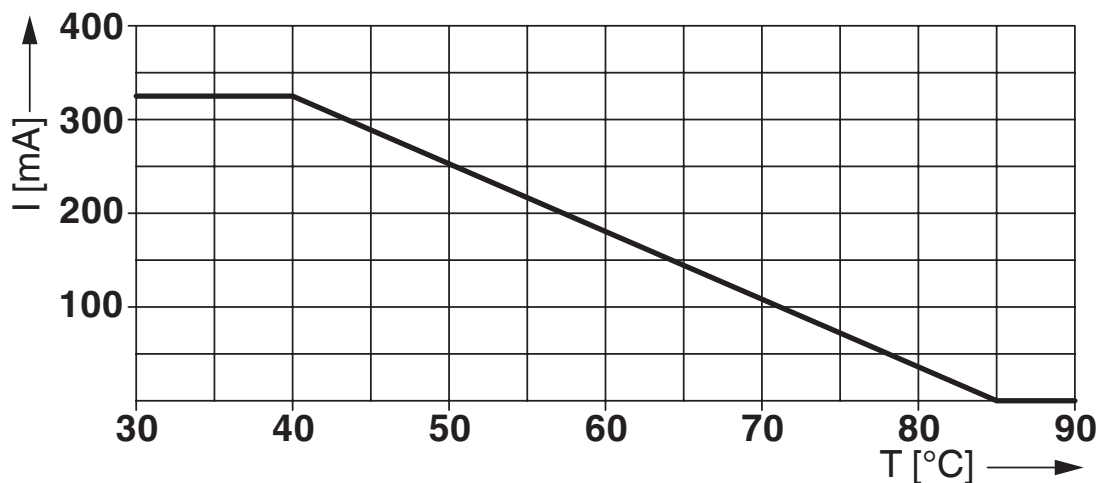
Application drawing



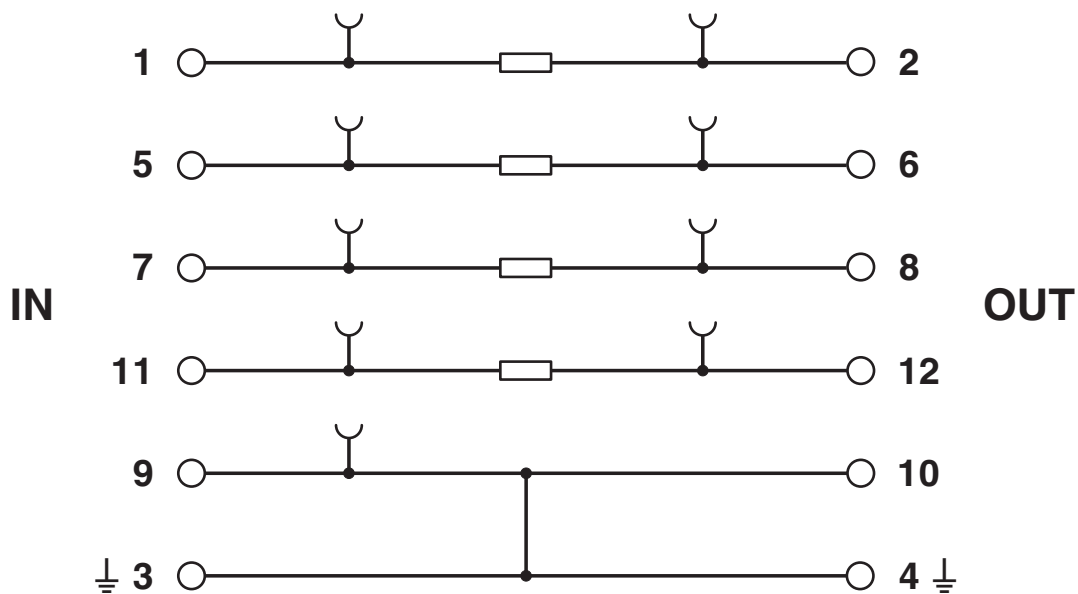
Application drawing



Diagram



Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2839279>



**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



**NEPSI-EX**

Approval ID: GYJ20.1177X



**UKCA-EX**

Approval ID: DEKRA 21UKEX0234 X

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27171592 |
| ECLASS-15.0 | 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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