

# TTC-6P-1X2-EX-24DC-I-P - Surge protection plug



2907831

<https://www.phoenixcontact.com/us/products/2907831>

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Surge protection plug with integrated status indicator on the module for one 2-wire floating Ex i signal circuit. Nominal voltage: 24 V DC

## Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features
- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2907831       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL02          |
| Product key                          | CL216Z        |
| GTIN                                 | 4055626378879 |
| Weight per piece (including packing) | 35.67 g       |
| Weight per piece (excluding packing) | 9.06 g        |
| Customs tariff number                | 85363010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                |                    |
|----------------|--------------------|
| Product type   | Replacement plug   |
| Product family | TERMITRAB complete |
| Type           | Male               |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 2   |

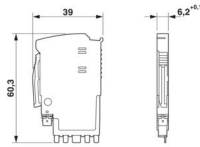
### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 24 V DC |
|-----------------------|---------|

### Connection data

|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 6.2 mm +0.1 mm   |
| Height              | 39 mm  |
| Depth               | 60.3 mm  |

### Material specifications

|  |                 |
|--|-----------------|
| Color                                  | blue (RAL 5015) |
|  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V-0             |
| Insulating material                    | PBT             |
| Housing material                       | PBT             |

### Protective circuit

|  |                |
|--|----------------|
| Nominal voltage $U_N$                      | 24 V DC        |
| Maximum continuous operating voltage $U_C$ | 30 V DC        |
| Rated current                              | 600 mA (40 °C) |
| Surge protection fault message             | optical        |

### Environmental and real-life conditions

#### Ambient conditions

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

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|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude                                | ≤ 2000 m (amsl)  |
| Permissible humidity (operation)        | 5 % ... 95 %     |

## Standards and regulations

|                          |             |
|--------------------------|-------------|
| Standards/specifications | EN 60079-0  |
| Note                     | 2018        |
| Standards/specifications | EN 60079-11 |
| Note                     | 2012        |

### EN 61643-21

|                          |   |
|--------------------------|---|
| Standards/specifications | EN 61643-21   |
| Note                     | 2001 + A1:2009 + A2:2013                              |
| Standards/specifications | IEC 60079-0   |
| Note                     | 2017  |
| Standards/specifications | IEC 60079-11  |
| Note                     | 2008  |
| Standards/specifications | IEC 61643-21  |
| Note                     | 2000 + corrigendum 2001 + A1:2008, modified + A2:2012 |
| Standards/specifications | GB/T 3836.1   |
| Note                     | 2021  |
| Standards/specifications | GB/T 3836.4   |
| Note                     | 2021  |

## Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

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## Drawings

Dimensional drawing



Circuit diagram



## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907831>



**CSA**

Approval ID: 70136717



**DNV GL**

Approval ID: TAE000027G



**UL Listed**

Approval ID: FILE E 138168



**CSAus**

Approval ID: 70136717

**UAE-RoHS**

Approval ID: 22-06-16192



**cUL Listed**

Approval ID: FILE E 333250

**INMETRO**

Approval ID: 19.0077 X



**NEPSI-EX**

Approval ID: GYJ20.1114X



**CCC**

Approval ID: 2020322316000780



**UKCA-EX**

Approval ID: DEKRA 23UKEX0110X



**cULus Listed**

Approval ID: File E 333250

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**IECEX**

Approval ID: IECEX BVS 16.0090X



**ATEX**

Approval ID: BVS 16 ATEX E 125 X

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27171502 |
| ECLASS-15.0 | 27171502 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001466 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 7(a) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
|                                     | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 85bdb6f0-a97a-4824-bd60-8696db9a2595 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.548 kg CO2e |
|---------|---------------|

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