

**VSPC BASE 2SL FG EX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Base element for the pluggable VSPC arresters. Integrated PE foot in the base of the impedance-neutral VSPC BASE and **floating earth PE connection (FG)** via integrated **sparkover gap**, safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE. Suitable for unearthened signal circuits.

**General ordering data**

|            |                                                                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Surge protection, Flange-mounted housing, IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006 |
| Order No.  | <a href="#">8951830000</a>                                                                                                                               |
| Type       | VSPC BASE 2SL FG EX                                                                                                                                      |
| GTIN (EAN) | 4032248743070                                                                                                                                            |
| Qty.       | 1 pc(s).                                                                                                                                                 |

Creation date March 30, 2021 12:00:04 AM CEST

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 69 mm      | Depth (inches)  | 2.717 inch |
| Height         | 90 mm      | Height (inches) | 3.543 inch |
| Net weight     | 68 g       | Width           | 17.8 mm    |
| Width (inches) | 0.701 inch |                 |            |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
| Humidity            | 5...96 %       |                       |                |

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Protection Ex - Data

|                        |                                           |                                          |                                           |
|------------------------|-------------------------------------------|------------------------------------------|-------------------------------------------|
| ATEX - dust labelling  | II 1 D Ex ia IIC T135 °C ...<br>T85 °C Da | ATEX - gas labelling                     | II 1 G Ex ia IIC T4... T6 Ga              |
| Certificate No. (ATEX) | KEMA10ATEX0148X                           | IECEx - dust labelling                   | II 1 D Ex ia IIC T135 °C ...<br>T85 °C Da |
| IECEx - gas labelling  | II 1 G Ex ia IIC T4... T6 Ga              | Internal inductance, max. L <sub>I</sub> | 0 µH                                      |

## CSA protection data

|                                        |      |                                          |        |
|----------------------------------------|------|------------------------------------------|--------|
| Gas group C                            | IIB  | Gas group D                              | IIA    |
| Gas groups A, B                        | IIC  | Input current, max. I <sub>I</sub>       | 250 mA |
| Internal capacity, max. C <sub>I</sub> | 0 nF | Internal inductance, max. L <sub>I</sub> | 0 µH   |

## General data

|                           |                    |                   |                                       |
|---------------------------|--------------------|-------------------|---------------------------------------|
| Colour                    | Light Blue         | Design            | Terminal, miscellaneous               |
| Optical function display  | No                 | Protection degree | IP20                                  |
| Rail                      | TS 35, TS 35 x 7.5 | Segment           | Measurement - Monitoring<br>- Setting |
| UL 94 flammability rating | V-0                | Version           | Flange-mounted housing                |

## Insulation coordination acc. to EN 50178

|                    |   |                        |     |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

## Rated data IEC / EN

|                                      |         |                                   |                                                                                                                            |
|--------------------------------------|---------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength at FG against PE | ≥ 500 V | Leakage current at U <sub>n</sub> | 0 µA                                                                                                                       |
| Signalling contact                   |         | Standards                         | IEC 61643-21, IEC 62305,<br>DIN EN 60079-0:2009,<br>DIN EN 60079-11:2007,<br>DIN EN 60079-26:2007,<br>DIN EN 61241-11:2006 |
|                                      | No      |                                   |                                                                                                                            |
| Voltage type                         | AC/DC   |                                   |                                                                                                                            |

## Further details of approvals

|                  |                 |
|------------------|-----------------|
| GOST certificate | GOST-Zertifikat |
|------------------|-----------------|

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## Connection data

|                                                            |                     |                                                            |                     |
|------------------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|
| Type of connection                                         | Screw connection    | Stripping length, rated connection                         | 7 mm                |
| Tightening torque, min.                                    | 0.5 Nm              | Tightening torque, max.                                    | 0.8 Nm              |
| Clamping range, min.                                       | 0.5 mm <sup>2</sup> | Clamping range, max.                                       | 4 mm <sup>2</sup>   |
| Wire cross-section, solid, min.                            | 0.5 mm <sup>2</sup> | Wire cross-section, solid, max.                            | 4 mm <sup>2</sup>   |
| Wire connection cross section, finely stranded, max.       | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 2.5 mm <sup>2</sup> | Connection cross-section, stranded, min.                   | 0.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max.                   | 2.5 mm <sup>2</sup> | Blade size                                                 | 0.6 x 3.5 mm        |

## Ratings IECEx/ATEX/cUL

|                       |                                        |                        |                                        |
|-----------------------|----------------------------------------|------------------------|----------------------------------------|
| ATEX - dust labelling | II 1 D Ex ia IIC T135 °C ... T85 °C Da | ATEX - gas labelling   | II 1 G Ex ia IIC T4... T6 Ga           |
| ATEX certificate      | ATEX Certificate                       | Certificate No. (ATEX) | KEMA10ATEX0148X                        |
| IEC Ex certificate    | IECEX Zertifikat                       | IECEX - dust labelling | II 1 D Ex ia IIC T135 °C ... T85 °C Da |
| IECEX - gas labelling | II 1 G Ex ia IIC T4... T6 Ga           | cUL certificate        | cUL Certificate                        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000472    | ETIM 7.0    | EC000472    |
| ECLASS 9.0  | 27-13-08-03 | ECLASS 9.1  | 27-13-08-07 |
| ECLASS 10.0 | 27-13-08-03 | ECLASS 11.0 | 27-13-08-03 |

## Tender specification sheets

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Long specification | <p>Base element can take a protected plug for up to two floating-ground powered paired cables. When the base unit is fitted, a simultaneous sparkover gap to high impedance earth is made between the mounting rail (earth) and the reference potential (ground) of the protective switch in the plug. Suitable for ATEX applications. Mechanical coding of the base element to the protected plug according to switching type and rated voltage. The base unit is coded itself by the first insertion of a protected plug. Possible to mark all terminals</p> | <p>Short specification</p> <p>Base element receives a protected plug for two floating-ground powered paired cables with indirect earthing. Suitable for ATEX applications.</p> |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Technical data

### Approvals

Approvals



ROHS

Conform

### Downloads

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                      |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>              |
| User Documentation                          | <a href="#">Instruction sheet</a>         |

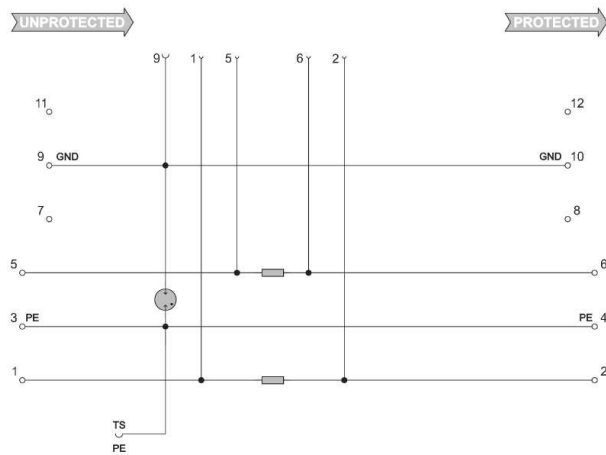
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## Drawings

## Electric symbol



| Cate-<br>gory | Testing<br>pulse         | Surge<br>voltage                | Surge<br>current                 | Pulse | Type                                                       |
|---------------|--------------------------|---------------------------------|----------------------------------|-------|------------------------------------------------------------|
| C1            | Quick-<br>rising<br>edge | 0.5 - 2 kV<br>with<br>1.2/50 µs | 0.25 - 1 kA<br>mit<br>8/20 µs    | 300   | Surge<br>voltage<br>arrester                               |
| C2            | Quick-<br>rising<br>edge | 2 - 10 kV<br>with<br>1.2/50 µs  | 1 - 5 kA<br>mit<br>8/20 µs       | 10    | Surge<br>voltage<br>arrester                               |
| C3            | Quick-<br>rising<br>edge | ≥ 1 kV<br>with<br>1 kV/µs       | 10 - 100 A<br>mit<br>10/10000 µs | 300   | Surge<br>voltage<br>arrester                               |
| D1            | High<br>power            | ≥ 1 kV                          | 0.5 - 2.5 kA<br>mit 10/350<br>µs | 2     | Arrester for<br>lightning<br>current and<br>surge voltages |

Discharge capacity