

**VSPC BASE 1CL 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 µs) and 2.5 kA (10/350 µs) to PE. Suitable for unearthed signal circuits.

**General ordering data**

|            |                                                                  |
|------------|------------------------------------------------------------------|
| Version    | Surge protection, Flange-mounted housing, Flange-mounted housing |
| Order No.  | <a href="#">8951810000</a>                                       |
| Type       | VSPC BASE 1CL FG EX                                              |
| GTIN (EAN) | 4032248743056                                                    |
| Qty.       | 1 pc(s).                                                         |

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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 |
| Width      | 17.8 mm | Width (inches)  | 0.701 inch |
| Net weight | 71 g    |                 |            |

## 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. $L_I$ | 0 µH                                      |

## Rated data UL

|                |                     |
|----------------|---------------------|
| UL certificate | UL 497b Certificate |
|----------------|---------------------|

## CSA protection data

|                               |      |                                 |        |
|-------------------------------|------|---------------------------------|--------|
| Gas group C                   | IIB  | Gas group D                     | IIA    |
| Gas groups A, B               | IIC  | Input current, max. $I_I$       | 250 mA |
| Internal capacity, max. $C_I$ | 0 nF | Internal inductance, max. $L_I$ | 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 $U_n$ | 0 µA  |
| Rated current $I_N$                  | 450 mA                                                                                                                     | Signalling contact       | No    |
| 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 | Voltage type             | AC/DC |

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## Technical data

## Further details of approvals

GOST certificate

GOST-Zertifikat

## Connection data

|                                                            |                     |                                                            |                     |
|------------------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|
| Stripping length                                           | 7 mm                | 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 IIIC 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 IIIC 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    |
| ETIM 8.0    | 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 | ECLASS 12.0 | 27-17-15-91 |

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## Technical data

## Tender specification sheets

## Long specification

Base element for a single floating-ground powered paired cable. With the installation of the base element a contact is established between mounting rail and the integrated sparkover gap. Through this sparkover gap, a high impedance connection between the ground of the protective switch in the protective plug and the earth potential is made. Mechanical coding of the base element to the protected plug according to switching type and rated voltage. Suitable for ATEX applications. The base unit is coded itself by the first insertion of a protected plug. 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

## Short specification

Base element to receive a protected plug for one floating-ground powered paired cable, integrated sparkover gap for high impedance connection between the ground of the plug's protective circuit and the earth potential. Suitable for ATEX applications.

## Approvals

## Approvals



ROHS

Conform

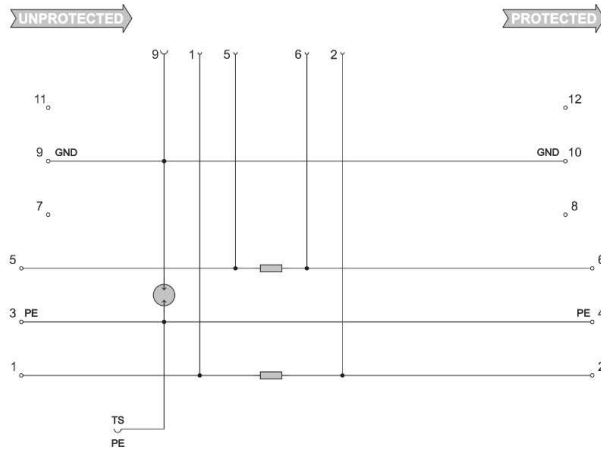
## Downloads

|                                             |                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">SIL Paper</a><br><a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                      |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                                         |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>                                                    |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                             |
| Brochures                                   |                                                                                                      |

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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

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