

VSPC BASE 2SL FG EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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 μ s) and 2.5 kA (10/350 μ s) to PE. Suitable for unearthened signal circuits.

General ordering data

| | |
|------------|---|
| Version | Surge protection, Flange-mounted housing, Flange-mounted housing |
| Order No. | 8951830000 |
| Type | VSPC BASE 2SL FG EX |
| GTIN (EAN) | 4032248743070 |
| Qty. | 1 pc(s). |

Creation date March 2, 2023 10:30:45 AM CET

Catalogue status 18.02.2023 / 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 |
| Width | 17.8 mm | Width (inches) | 0.701 inch |
| Net weight | 68 g | | |

Temperatures

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

Protection Ex - Data

| | | | |
|------------------------|--|--|--|
| 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 |
| Certificate No. (ATEX) | KEMA10ATEX0148X | 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 | Internal inductance, max. L _I | 0 µH |

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 - 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 |
| Signalling contact | No | Standards | 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 |
| Voltage type | AC/DC | | |

Further details of approvals

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

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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 ² |
| Clamping range, max. | 4 mm ² | Wire cross-section, solid, min. | 0.5 mm ² |
| Wire cross-section, solid, max. | 4 mm ² | Wire connection cross section, finely stranded, max. | 2.5 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 2.5 mm ² |
| Connection cross-section, stranded, min. | 0.5 mm ² | Connection cross-section, stranded, max. | 2.5 mm ² |
| 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 |

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 | SIL Paper EU_Konformitätserklärung / EU_Declaration_of_Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

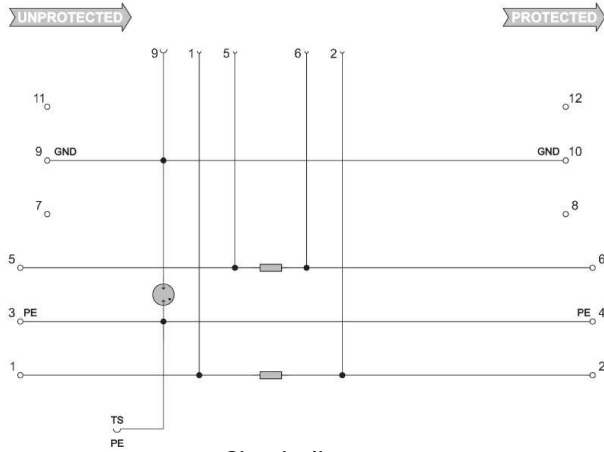
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Drawings

Electric symbol



Circuit diagram

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

Discharge capacity