

**VSPC**  
**VSPC BASE 1CL FG R****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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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 unearthed signal circuits.

**General ordering data**

|            |                                                                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type       | VSPC BASE 1CL FG R                                                                                                                                               |
| Order No.  | <a href="#">8951740000</a>                                                                                                                                       |
| Version    | Surge protection, Flange-mounted housing, 450 mA, 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 |
| GTIN (EAN) | 4032248742981                                                                                                                                                    |
| Qty.       | 1 pc(s).                                                                                                                                                         |

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**Technical data**
**Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 17.8 mm | Width (inches)  | 0.701 inch |
| Height     | 98 mm   | Height (inches) | 3.858 inch |
| Depth      | 69 mm   | Depth (inches)  | 2.717 inch |
| Net weight | 71 g    |                 |            |

**Temperatures**

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

**Environmental Product Compliance**

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

**Rated data UL**

|                      |         |                |                     |
|----------------------|---------|----------------|---------------------|
| Certificate No. (UL) | E311081 | UL certificate | UL 497b Certificate |
|----------------------|---------|----------------|---------------------|

**Connection data, remote alert**

|                                                    |                     |                                                    |                     |
|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| Connection type                                    | Screw connection    | Max. torque                                        | 0.2 Nm              |
| Stripping length                                   | 6 mm                | Cross-section for connected wire, solid core, min. | 0.5 mm <sup>2</sup> |
| Cross-section for connected wire, solid core, max. | 1.5 mm <sup>2</sup> |                                                    |                     |

**CSA protection data**

|                                          |      |                                    |        |
|------------------------------------------|------|------------------------------------|--------|
| Gas group C                              | IIB  | Gas group D                        | IIA    |
| Gas groups A, B                          | IIC  | Input current, max. I <sub>I</sub> | 450 mA |
| Internal inductance, max. L <sub>I</sub> | 0 µH |                                    |        |

**General data**

|                           |                    |                   |                                    |
|---------------------------|--------------------|-------------------|------------------------------------|
| Colour                    | black              | 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 |
|--------------------|---|------------------------|-----|

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**Technical data****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       | $U_N$ 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit |
| 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 |
|------------------|-----------------|

**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**

|                 |                 |
|-----------------|-----------------|
| cUL certificate | cUL Certificate |
|-----------------|-----------------|

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000943    | ETIM 4.0   | EC000381    |
| ETIM 5.0   | EC000943    | ETIM 6.0   | EC000472    |
| UNSPSC     | 30-21-19-21 | eClass 5.1 | 27-13-08-01 |
| eClass 6.2 | 27-13-08-02 | eClass 7.1 | 27-13-08-09 |
| eClass 8.1 | 27-13-08-11 | eClass 9.0 | 27-13-08-03 |
| eClass 9.1 | 27-13-08-07 |            |             |

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

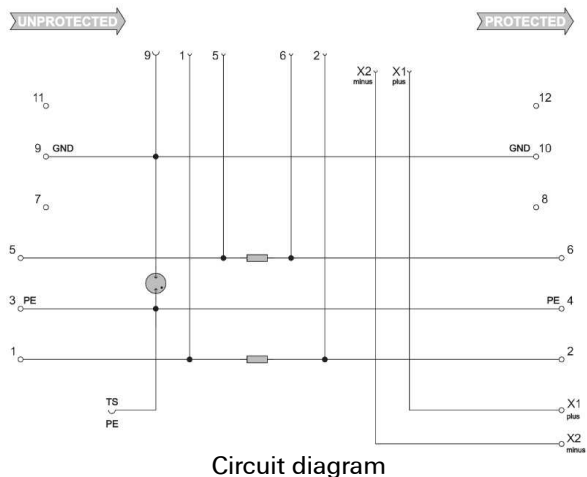
**Downloads**

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CE PAPER</a>                |
| Brochure/Catalogue                          | <a href="#">CAT 4.4 ELECTR 16/17 EN</a> |
| Engineering Data                            | <a href="#">EPLAN.WSCAD</a>             |
| Engineering Data                            | <a href="#">STEP</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