

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to the PE.

**General ordering data**

|            |                                                                  |
|------------|------------------------------------------------------------------|
| Version    | Surge protection, Flange-mounted housing, Flange-mounted housing |
| Order No.  | <a href="#">8951730000</a>                                       |
| Type       | VSPC BASE 1CL R                                                  |
| GTIN (EAN) | 4032248742974                                                    |
| Qty.       | 1 pc(s).                                                         |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 69 mm   | Depth (inches)  | 2.717 inch |
| Height     | 98 mm   | Height (inches) | 3.858 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 |
| Humidity            | 5...96 %       |                       |                |

## Rated data UL

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

## Connection data, remote alert

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

## 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

|                   |      |        |       |
|-------------------|------|--------|-------|
| Protection degree | IP20 | Colour | black |
|-------------------|------|--------|-------|

## Insulation coordination acc. to EN 50178

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

## Rated data IEC / EN

|                              |                                                                                                                |                    |                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------|
| Rated current I <sub>N</sub> | 450 mA                                                                                                         | Signalling contact | U <sub>N</sub> 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 |
|------------------|-----------------|

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**Technical data****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        |                                                            |                     |

**Electrical data**

|              |       |
|--------------|-------|
| Voltage type | AC/DC |
|--------------|-------|

**Ratings IECEx/ATEX/cUL**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000472    | ETIM 7.0    | EC000472    |
| ETIM 8.0    | EC000472    | ETIM 9.0    | EC000472    |
| ETIM 10.0   | 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 |
| ECLASS 13.0 | 27-17-15-91 | ECLASS 14.0 | 27-17-15-91 |
| ECLASS 15.0 | 27-17-15-91 |             |             |

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## Technical data

## Tender specification sheets

| Long specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Short specification                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base element with remote monitoring option to receive a protected plug with status display for one floating-ground powered paired cable. With optional remote monitoring. With the installation of the base element a contact is established between mounting rail and 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. Optical identification of the protected plug based on the type of protected switching and the voltage level. Possible to mark all terminals | Base element with remote monitoring option to receive a protected plug with status display for one floating-ground powered paired cable, direct contact of the plug protection circuit to the earth potential. With optional remote monitoring |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 5047b468-d57a-4a1c-8363-2ff1629067e4 |

## Approvals

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals             |                                                                                                                                                                                                                                                                            |
| Approvals MAMID       | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319227/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319227/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319261/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319261/-T1z1mm-S800/</a> |
| ROHS                  | Conform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UL File Number Search | UL Website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Certificate No. (UL)  | E311081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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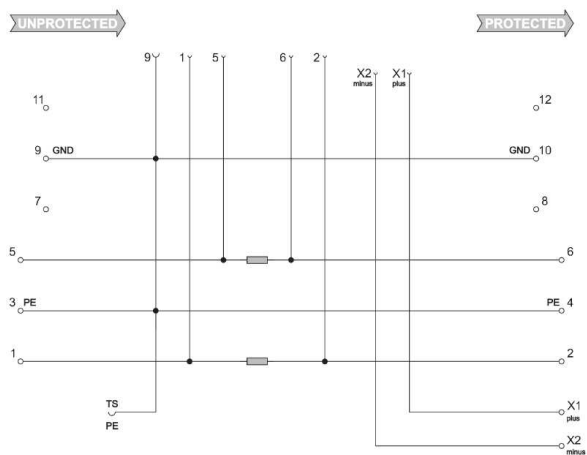
### Downloads

|                                             |                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------|
| 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>                                                                      |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>                                                    |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                             |
| Brochures                                   |                                                                                                      |

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**Drawings**
**Electric symbol**


Circuit diagram

| 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