

**VSPC MOV 2CH 230V R****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

- Pluggable arrester with ungrounded varistors (MOV) for use as protection circuit for coils
- For applications as surge protection, external wire links to GND must be connected at the VSPC BASE FG (e.g. connection 8-10 and 9-5)
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Integrated PE foot in the VSPC BASE, safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE

**General ordering data**

|            |                                                                                    |
|------------|------------------------------------------------------------------------------------|
| Version    | Surge protection for instrumentation and control, 230 V, 230 V, 10 A, IEC 61643-21 |
| Order No.  | <a href="#">8951660000</a>                                                         |
| Type       | VSPC MOV 2CH 230V R                                                                |
| GTIN (EAN) | 4032248742905                                                                      |
| 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 |
| Net weight     | 47 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 %       |                       |                |

## Probability of failure

|           |             |                                    |       |
|-----------|-------------|------------------------------------|-------|
| SIL PAPER | SIL Paper   | SIL in compliance with IEC 61508   | 3     |
| MTTF      | 1,479 Years | SFF                                | 100 % |
| λges      | 77.2        | PFH in 1*10 <sup>-9</sup> per hour | 0     |

## Environmental Product Compliance

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

## Rated data UL

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

## CSA protection data

|                                        |      |                                          |       |
|----------------------------------------|------|------------------------------------------|-------|
| Gas group C                            | IIB  | Gas group D                              | IIA   |
| Gas groups A, B                        | IIC  | Input voltage, max. U <sub>i</sub>       | 385 V |
| Internal capacity, max. C <sub>i</sub> | 2 nF | Internal inductance, max. L <sub>i</sub> | 0 μH  |

## General data

|                          |                                                   |                           |                         |
|--------------------------|---------------------------------------------------|---------------------------|-------------------------|
| Colour                   | orange                                            | Design                    | Terminal, miscellaneous |
| Optical function display | green = OK; red = arrester is defective - replace | Protection degree         | IP20                    |
| Segment                  | Measurement - Monitoring - Setting                | UL 94 flammability rating | V-0                     |
| Version                  | with warning function / function indicator        |                           |                         |

## Insulation coordination acc. to EN 50178

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

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## Rated data IEC / EN

|                                                                     |                                                           |                                                                    |                       |
|---------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|-----------------------|
| Capacitance                                                         | 720 pF                                                    | Discharge current $I_{\max}$ (8/20 $\mu$ s) GND-PE                 | 1 kA                  |
| Discharge current $I_{\max}$ (8/20 $\mu$ s) wire-wire               | 1 kA                                                      | Discharge current $I_n$ (8/20 $\mu$ s) GND-PE                      | 1 kA                  |
| Discharge current $I_n$ (8/20 $\mu$ s) wire-PE                      | 2.5 kA                                                    | Discharge current $I_n$ (8/20 $\mu$ s) wire-wire                   | 1 kA                  |
| Fuse                                                                | 10A                                                       | Lightning test current, $I_{\text{imp}}$ (10/350 $\mu$ s) GND-PE   | 0.5 kA                |
| Lightning test current, $I_{\text{imp}}$ (10/350 $\mu$ s) wire-wire | 0.2 kA                                                    | Max. continuous voltage, $U_c$ (AC)                                | 275 V                 |
| Max. continuous voltage, $U_c$ (DC)                                 | 350 V                                                     | Number of poles                                                    | 1                     |
| Overload - failure mode                                             | Mode 1                                                    | Protection level on output side Wire-wire 1 kV/ $\mu$ s, typically | 600 V                 |
| Protection level on output side Wire-wire 8/20 $\mu$ s, typically   | 700 V                                                     | Protection level, $U_p$ wire - wire                                | 850 V                 |
| Rated current $I_N$                                                 | 10 A                                                      | Rated voltage (AC)                                                 | 230 V                 |
| Rated voltage (DC)                                                  | 230 V                                                     | Requirements category acc. to IEC 61643-21                         | C1, C2, C3, D1        |
| Signalling contact                                                  | $U_N$ 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit | Standards                                                          | IEC 61643-21          |
| Surge current-carrying capacity C1                                  | < 1 kA 8/20 $\mu$ s                                       | Surge current-carrying capacity C2                                 | 1 kA 8/20 $\mu$ s     |
| Surge current-carrying capacity C3                                  | 50 A 10/1000 $\mu$ s                                      | Surge current-carrying capacity D1                                 | 0.5 kA 10/350 $\mu$ s |
| Voltage type                                                        | AC/DC                                                     | Volume resistance                                                  | 0.20 $\Omega$         |

## Further details of approvals

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

## Connection data

|                    |                        |
|--------------------|------------------------|
| Type of connection | Pluggable in VSPC BASE |
|--------------------|------------------------|

## Ratings IECEx/ATEX/cUL

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000943    | ETIM 7.0    | EC000943    |
| ECLASS 9.0  | 27-13-08-07 | ECLASS 9.1  | 27-13-08-07 |
| ECLASS 10.0 | 27-13-08-07 | ECLASS 11.0 | 27-13-08-07 |

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## Technical data

## Tender specification sheets

## Long specification

Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables with integrated status display and remote monitoring option. Version: 230 V AC Single-stage protective circuitry in plug, consisting of varistor protection between the signal wires. Mechanical identification of the plug to the base element according to the switching type and rated voltage. Protected plug with coding pin and counter-profile for the base element. Optical identification of the protected plug based on the type of protected switching and the voltage level. It is possible to mark the plug.

## Short specification

Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables with integrated status display and remote monitoring option. Version: 230 V AC

## Important note

## Product information

External wire bridges must be used for connection to PE.

## Approvals

## Approvals



## ROHS

Conform

## UL File Number Search

E311081

## Downloads

## Approval/Certificate/Document of Conformity

[SIL Paper](#)  
[CE PAPER](#)  
[Declaration of Conformity](#)

## Engineering Data

[STEP](#)

## Engineering Data

[EPLAN, WSCAD](#)

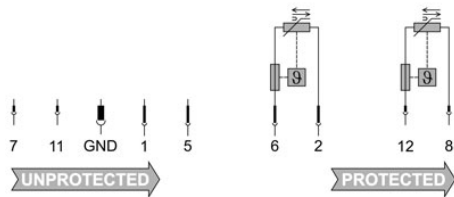
## User Documentation

[Instruction sheet](#)  
[Connection of VSPC MOV](#)

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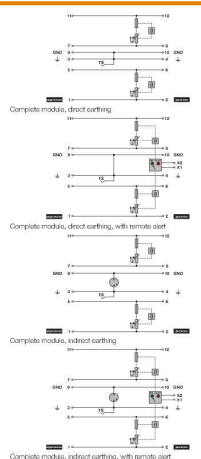
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**Drawings**
**Electric symbol**


Similar to illustration

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

Discharge capacity



Komplettmodul