

## VSSC4 SL FG 24VAC/DC Ex

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrial and process automation as well as in building automation applications.

### General ordering data

|            |  |
|------------|--|
| Order No.  | <a href="#">1063930000</a>                       |
| Type       | VSSC4 SL FG 24VAC/DC Ex                          |
| Version    | Surge protection for instrumentation and control |
| GTIN (EAN) | 4032248829354                                    |
| Qty.       | 5 pc(s).   |

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

|       |         |            |       |
|-------|---------|------------|-------|
| Width | 12.2 mm | Height     | 76 mm |
| Depth | 58.5 mm | Net weight | 27 g  |

**Temperatures**

|                     |                 |                       |                 |
|---------------------|-----------------|-----------------------|-----------------|
| Humidity            | 5...96 %        | Operating temperature | -40 °C...+70 °C |
| Storage temperature | -40 °C...+80 °C |                       |                 |

**Probability of failure**

|                                   |     |     |         |
|-----------------------------------|-----|-----|---------|
| PFH in $1 \cdot 10^{-9}$ per hour | 0.9 | SFF | 97.91 % |
| SIL in compliance with IEC 61508  | 3   |     |         |

**General data**

|                           |            |                          |                             |
|---------------------------|------------|--------------------------|-----------------------------|
| Colour                    | Light Blue | Isolating function       | No                          |
| Mounting rail             | TS 35      | Optical function display | No                          |
| Protection degree         |            | Segment                  | Instrumentation and Control |
|                           | IP 20      |                          |                             |
| UL 94 flammability rating | V-0        |                          |                             |

**Insulation coordination acc. to EN 50178**

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

**technical data**

|  |                   |   |   |
|--|-------------------|---|---|
| Rated voltage (AC)                                 | 24 V              | Rated voltage (DC)                                | 34 V  |
| Rated current                                      | 300 mA            | Max. continuous voltage, $U_c$ (AC)               | 30 V  |
| Max. continuous voltage, $U_c$ (DC)                | 42 V              | Discharge current $I_n$ (8/20 $\mu$ s) wire-PE    | 2.5 kA  |
| Discharge current $I_n$ (8/20 $\mu$ s) GND-PE      | 2.5 kA            | Discharge current $I_{max}$ (8/20 $\mu$ s) GND-PE | 10 kA   |
| Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 10 kA             | Discharge current, max. (8/20 $\mu$ s)            | 10 kA   |
| Protection level $U_p$ (typ.)                      |                   | Standards   | IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006 |
|  | 106 V             | Humidity  | 5...96 %  |
| Colour   | Light Blue        | Lightning test current $I_{imp}$ (10/350 $\mu$ s) | 1 kA  |
| Requirements category acc. to IEC 61643-21         | C2, C3, D1        | Residual voltage, $U_p$ typical                   | 106 V   |
| Volume resistance                                  | 1.8 $\Omega$ 10 % | Overload - failure mode                           | Modus 2   |
| Dielectric strength at FG against PE               | $\geq 500$ V      |   |   |

**Connection data**

|   |                     |   |                   |
|---|---------------------|---|-------------------|
| Clamping range, rated connection, min.                          | 0.5 mm <sup>2</sup> | Clamping range, rated connection, max.                          | 4 mm <sup>2</sup> |
| Wire connection cross section, stranded, rated connection, min. | 0.5 mm <sup>2</sup> | Wire connection cross section, stranded, rated connection, max. | 4 mm <sup>2</sup> |
| Tightening torque, min.   | 0.5 Nm              | Tightening torque, max.   | 0.8 Nm            |

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**Technical data****EX protection data**

|   |           |   |        |
|---|-----------|---|--------|
| Input power, max. $P_I$                           | 0.75 W    | Internal capacitance, max. $C_I$                  | 1 nF   |
| Internal inductance, max. $L_I$                   | 0 $\mu$ H | Temperature class T4/135°C (-40°C ... +120 °C) li | 300 mA |
| Temperature class T5/100°C (-40 °C ... +85 °C) li | 300 mA    | Temperature class T6/85 °C (-40 °C ... +70 °C) li | 300 mA |

**Further details of approvals**

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

**Rated data UL**

|                |               |
|----------------|---------------|
| UL certificate | UL Zertifikat |
|----------------|---------------|

**Ratings IECEx/ATEX**

|                  |                  |                    |                  |
|------------------|------------------|--------------------|------------------|
| ATEX certificate | ATEX Certificate | IEC Ex certificate | IECEX Zertifikat |
|------------------|------------------|--------------------|------------------|

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000943    | UNSPSC     | 30-21-19-21 |
| eClass 4.1 | 27-13-08-01 | eClass 5.1 | 27-13-08-01 |
| eClass 6.2 | 27-13-08-02 | eClass 7.1 | 27-13-08-02 |

**Approvals**

Approvals



ROHS Conform

**Probability of failure**

|           |                           |
|-----------|---------------------------|
| SIL PAPER | <a href="#">SIL Paper</a> |
|           | <a href="#">3-D model</a> |

**Downloads**

|                           |  |
|---------------------------|--|
| Package insert            | <a href="#">Instruction sheet VSSC</a>       |
| Declaration of Conformity | <a href="#">K378_02_11.pdf</a>               |
| PDF                       | <a href="#">Type examination certificate</a> |
|                           | <a href="#">3-D model</a>                    |

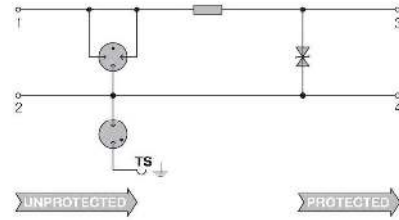
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**Drawings**



Similar to illustration



Circuit diagram

