

VSSC6SL LD 12VDC 0.5A

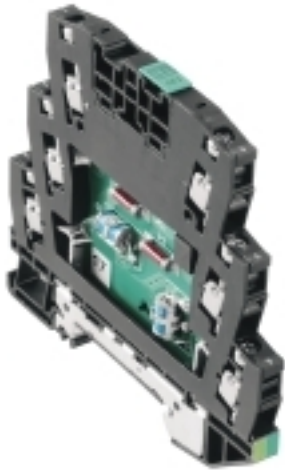
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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

| | |
|------------|--|
| Version | Surge protection for instrumentation and control, 12 V, 500 mA, IEC 61643-21 |
| Order No. | 1064340000 |
| Type | VSSC6SL LD 12VDC 0.5A |
| GTIN (EAN) | 4032248829705 |
| Qty. | 10 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|----------------|------------|-----------------|------------|
| Depth | 81 mm | Depth (inches) | 3.189 inch |
| Height | 88.5 mm | Height (inches) | 3.484 inch |
| Net weight | 46.2 g | Width | 6.2 mm |
| Width (inches) | 0.244 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 | 2,114 Jahre | SFF | 96.67 % |
| λ_{ges} | 54 | PFH in $1 \cdot 10^{-9}$ per hour | 1.8 |

Environmental Product Compliance

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

Rated data UL

| | | | |
|----------------------|---------|----------------|---------------|
| Certificate No. (UL) | E311081 | UL certificate | UL Zertifikat |
|----------------------|---------|----------------|---------------|

CSA protection data

| | | | |
|---------------------------------|-----------|-------------------------------|--------|
| Gas group C | IIB | Gas group D | IIA |
| Gas groups A, B | IIC | Input current, max. I_i | 500 mA |
| Input voltage, max. U_i | 15 V | Internal capacity, max. C_i | 2 nF |
| Internal inductance, max. L_i | 0 μ H | | |

General data

| | | | |
|--------------------|---|---------------------------|----------|
| Colour | black | Design | Terminal |
| Isolating function | No | Optical function display | Yes |
| Protection degree | IP20 | Rail | TS 35 |
| Segment | Measurement - Monitoring - Setting | UL 94 flammability rating | V-0 |
| Version | Surge protection for measurement and control | | |

Insulation coordination acc. to EN 50178

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

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Technical data**Rated data IEC / EN**

| | | | |
|--|---------------------|---|----------------------|
| Discharge current I_{max} (8/20 μ s) wire-PE | 10 kA | Discharge current I_n (8/20 μ s) wire-PE | 2.5 kA |
| Discharge current, max. (8/20 μ s) | 20 kA | Fuse | 0.5 A |
| Insertion loss | 732.08 kHz | Leakage current at U_n | 3.2 mA |
| Lightning test current I_{imp} (10/350 μ s) | 1 kA | Lightning test current, I_{imp} (10/350 μ s) Wire-PE | 1 kA |
| Max. continuous voltage, U_c (DC) | 15 V | Number of poles | 1 |
| Overload - failure mode | Modus 2 | Protection level U_p (typ.) | ≤ 100 V |
| Pulse-reset capacity | ≤ 20 ms | Rated current I_N | 500 mA |
| Rated voltage (DC) | 12 V | Requirements category acc. to IEC 61643-21 | C2, C3, D1 |
| Signal transmission properties (-3 dB) | 750 KHz | Standards | IEC 61643-21 |
| Surge current-carrying capacity C2 | 2.5 kA 8/20 μ s | Surge current-carrying capacity C3 | 10 A 10/1000 μ s |
| Surge current-carrying capacity D1 | 1 kA 10/350 μ s | Voltage type | DC |
| Volume resistance | 1.8 Ω 10 % | | |

Further details of approvals

GOST certificate GOST-Zertifikat

Connection data

| | | | |
|---|-------------------|---|---------------------|
| Type of connection | Screw connection | 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. | 6 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 4 mm ² | Connection cross-section, stranded, min. | 0.5 mm ² |
| Connection cross-section, stranded, max. | 4 mm ² | | |

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 | | Short specification |
|--------------------|--|--|
| | <p>Surge protection in a one piece, 6.2 mm wide DIN rail module for two binary, potential-free signal circuits with 12 V DC. Signal indication via a green LED. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.</p> | <p>Surge protection in a one piece, 6.2 mm wide DIN rail module for two binary, potential-free signal circuits. Signal indication via a green LED. Version: 12V DC</p> |

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 VSSC |

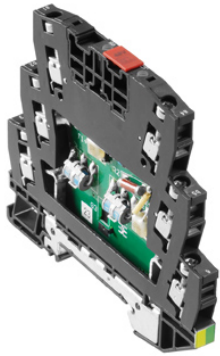
Data sheet

VSSC6SL LD 12VDC 0.5A

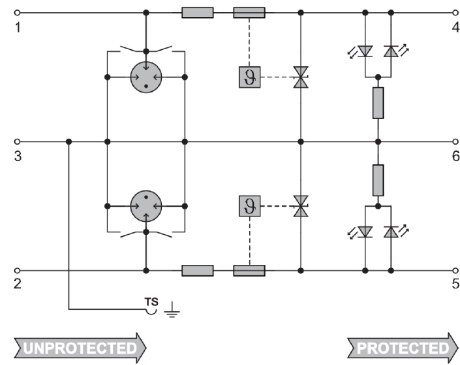
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Drawings



Similar to illustration



Circuit diagram

