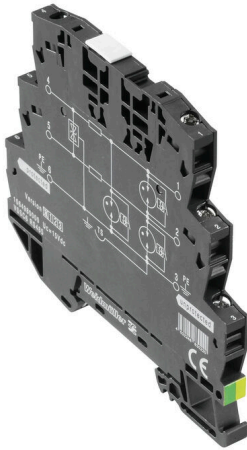


## VSSC6 RS485 DP

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

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



Similar to illustration

### Data surge protection

- for RS 422 and RS 485 signal
- suitable as transient surge protection for fast data signals

### General ordering data

|            |  |
|------------|--|
| Version    | Surge protection for instrumentation and control,<br>Surge protection for measurement and control,<br>UP(L/N-PE) ≤ 100 V |
| Order No.  | <a href="#">1065010000</a>   |
| Type       | VSSC6 RS485 DP   |
| GTIN (EAN) | 4032248830244  |
| Qty.       | 10 items   |

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Technical data

Approvals

Approvals



|                       |                            |
|-----------------------|----------------------------|
| ROHS                  | Conform                    |
| UL File Number Search | <a href="#">UL Website</a> |
| Certificate No. (UL)  | E311081                    |

Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 81 mm   | Depth (inches)  | 3.189 inch  |
| Height     | 88.5 mm | Height (inches) | 3.4842 inch |
| Width      | 6.2 mm  | Width (inches)  | 0.2441 inch |
| Net weight | 42 g    |                 |             |

Temperatures

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

Probability of failure

|                                    |         |      |        |
|------------------------------------|---------|------|--------|
| SIL in compliance with IEC 61508   | 3       | MTTF | 1903 a |
| SFF                                | 94.58 % | λges | 60     |
| PFH in 1*10 <sup>-9</sup> per hour | 3.25    |      |        |

Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 71e97bb7-979f-4330-94c0-20c629bb05e3 |

Rated data UL

|                      |         |                |  |
|----------------------|---------|----------------|--|
| Certificate No. (UL) | E311081 | UL certificate | UL Zertifikat - PDF/<br>E311081VOL1SEC3.pdf<br>(application/pdf) |
|----------------------|---------|----------------|--|

CSA protection data

|                              |        |                            |      |
|------------------------------|--------|----------------------------|------|
| Gas group D                  | IIA    | Gas groups A, B            | IIC  |
| Input-current, max. Ii       | 500 mA | Gas group C                | IIB  |
| Internal inductance, max. Li | 0 µH   | Internal capacity, max. Ci | 7 nF |
| Input voltage, max. Ui       | 15 V   |                            |      |

General data

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

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## Technical data

## Insulation coordination acc. to EN 50178

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

## Rated data IEC / EN

|  |                                  |  |                 |
|--|----------------------------------|--|-----------------|
| Number of poles                                      | 1                                | Rated voltage (DC)                                     | 12 V            |
| Rated current I <sub>N</sub>                         | 500 mA                           | Protection level UP (typ.)                             | ≤ 100 V         |
| Voltage type   | AC                               | Volume resistance                                      | 1.8 Ω 10 %      |
| Standards  | IEC 61643-21                     | Lightning test current I <sub>imp</sub> (10/350 μs)    | 0.5 kA          |
| Discharge current, max. (8/20 μs)                    | 20 kA                            | Requirements category acc. to IEC 61643-21             | C2, C3, D1      |
| Insertion loss                                       | 113.7 MHz                        | Max. continuous voltage, U <sub>c</sub> (DC)           | 15 V            |
| Surge current-carrying capacity D1                   | 0.5 kA 10/350 μs                 | Surge current-carrying capacity C3                     | 10 A 10/1000 μs |
| Pulse-reset capacity                                 | ≤ 15 ms                          | Signal transmission properties (-3 dB)                 | 113.6 MHz       |
| Lightning test current, I <sub>imp</sub> (10/350 μs) | 0.5 kA                           | Overload - failure mode                                | Modus 2         |
| Wire-PE  |                                  |  |                 |
| Discharge current I <sub>n</sub> (8/20 μs) wire-wire | 2.5 kA                           | Discharge current I <sub>n</sub> (8/20 μs) wire-PE     | 2.5 kA          |
| Discharge current I <sub>max</sub> (8/20 μs) wire-PE | 10 kA                            | Discharge current I <sub>max</sub> (8/20 μs) wire-wire | 10 kA           |
| Surge current-carrying capacity C2                   | 2.5 kA 8/20 μs 5 kV<br>1.2/50 μs |  |                 |

## Further details of approvals

|                  |  |
|------------------|--|
| GOST certificate | GOST-Zertifikat -<br>PDF/7950_n1-n4.pdf<br>(application/pdf) |
|------------------|--|

## Connection data

|  |                     |  |                   |
|--|---------------------|--|-------------------|
| Stripping length   | 10 mm               | Type of connection   | Screw connection  |
| 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.                            | 6 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. | 4 mm <sup>2</sup> |
| Connection cross-section, stranded, min.                   | 0.5 mm <sup>2</sup> | Connection cross-section, stranded, max.                   | 4 mm <sup>2</sup> |

## Electrical data

|              |    |
|--------------|----|
| Voltage type | AC |
|--------------|----|

## General data

|                 |       |                   |      |
|-----------------|-------|-------------------|------|
| Number of poles | 1     | Protection degree | IP20 |
| Colour          | black |                   |      |

## Ratings IECEx/ATEX/cUL

|                 |  |
|-----------------|--|
| cUL certificate | cUL Certificate - pdf/<br>VSSC.PDF (application/<br>pdf) |
|-----------------|--|

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**Technical data****Important note**

Product information      Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.

**Classifications**

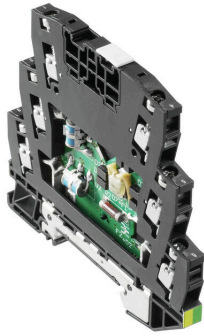
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000943    | ETIM 9.0    | EC000943    |
| ETIM 10.0   | EC000943    | ECLASS 14.0 | 27-17-90-90 |
| ECLASS 15.0 | 27-17-90-90 |             |             |

**VSSC6 RS485 DP**

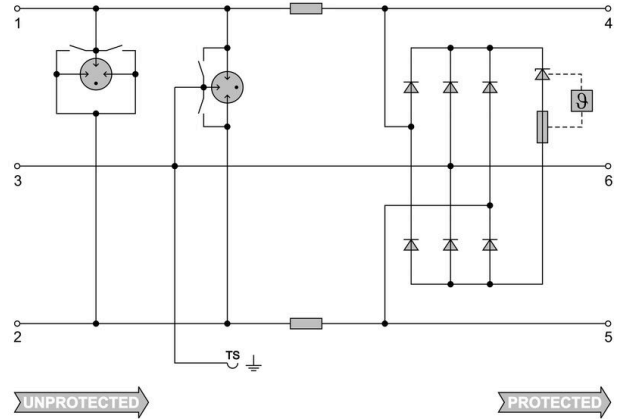
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Drawings

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Similar to illustration



Circuit diagram

