

## VSSC6 RS485 PA EX

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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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="#">1065020000</a>
Type	VSSC6 RS485 PA EX
Version	Surge protection for instrumentation and control
GTIN (EAN)	4032248830251
Qty.	5 pc(s).

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

Width	12.2 mm	Height	88.5 mm
Depth	81 mm	Net weight	49.2 g

**Temperatures**

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

**Probability of failure**

$\lambda_{ges}$	29	MTTF	3,936 Years
PFH in $1 \cdot 10^{-9}$ per hour	1.75	SFF	93.97 %
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
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**Interference voltage**

Protection level on output side Wire-PE 1kV/ $\mu$ s, typically	94 V
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**Protection level**

Protection level, $U_p$ wire - PE	94 V
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**technical data**

Rated voltage (DC)	12 V	Rated current	300 mA
Max. continuous voltage, $U_c$ (DC)	35 V	Discharge current $I_n$ (8/20 $\mu$ s) wire-wire	2.5 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire	5 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	5 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
	$\leq 1830$ V	Humidity	5...96 %
Colour	Light Blue	Lightning test current $I_{imp}$ (10/350 $\mu$ s)	0.5 kA
Requirements category acc. to IEC 61643-21	C2, C3, D1	Residual voltage, $U_p$ typical	94 V
Volume resistance	1.8 $\Omega$ 10 %	Overload - failure mode	Modus 2
Dielectric strength at FG against PE	$\geq 500$ V		

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**Technical data****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

**EX protection data**

Input power, max. P <sub>I</sub>	0.75 W	Internal capacitance, max. C <sub>I</sub>	1 nF
Internal inductance, max. L <sub>I</sub>	0 µH	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	27-14-02-01	eClass 7.1	27-13-08-05

**Approvals**

Approvals



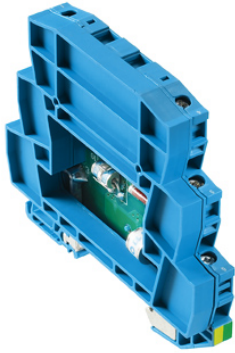
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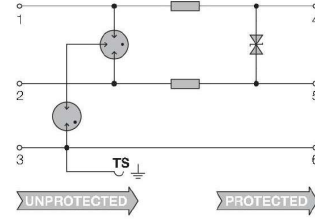
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**Drawings**



Similar to illustration



Circuit diagram

