

VSSC6 RS485 PA EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmuller.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.	1065020000
Type	VSSC6 RS485 PA EX
Version	Surge protection for instrumentation and control
GTIN (EAN)	4032248830251
Qty.	5 pc(s).

VSSC6 RS485 PA 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

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

λ_{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
--------------------	---	------------------------	-----

Interference voltage

Protection level on output side Wire-PE 1kV/ μ s, typically	94 V
--------------------------------------------------------------------	------

Protection level

Protection level, U_p wire - PE	94 V
-----------------------------------	------

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 μ s) wire-wire	2.5 kA
Discharge current I_{max} (8/20 μ s) wire-wire	5 kA	Discharge current I_n (8/20 μ s) wire-PE	2.5 kA
Discharge current I_{max} (8/20 μ s) wire-PE	5 kA	Discharge current, max. (8/20 μ 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
	≤ 1830 V	Humidity	5...96 %
Colour	Light Blue	Lightning test current I_{imp} (10/350 μ 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 Ω 10 %	Overload - failure mode	Modus 2
Dielectric strength at FG against PE	≥ 500 V		

VSSC6 RS485 PA 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

Technical data**Connection data**

Clamping range, rated connection, min.	0.5 mm ²	Clamping range, rated connection, max.	4 mm ²
Wire connection cross section, stranded, rated connection, min.	0.5 mm ²	Wire connection cross section, stranded, rated connection, max.	4 mm ²
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm

EX protection data

Input power, max. P _I	0.75 W	Internal capacitance, max. C _I	1 nF
Internal inductance, max. L _I	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



ROHS Conform

Probability of failureSIL PAPER [SIL Paper](#)
[3-D model](#)**Downloads**Package insert [Instruction sheet VSSC](#)
Declaration of Conformity [K378_02_11.pdf](#)
PDF [Type examination certificate](#)
[3-D model](#)

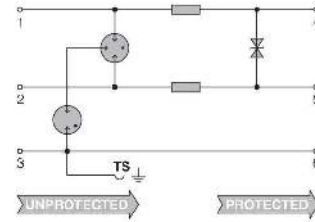
VSSC6 RS485 PA EX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings



Similar to illustration



Circuit diagram

