VSSC
VSSC6 RTD 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 industrical and process automation as well as in building automation applications.

General ordering data

Type	VSSC6 RTD EX
Order No.	1130670000
Version	Surge protection for instrumentation and control, 1 V, 300 mA, IEC61643-21:2009, DIN EN 60079-0.2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
GTIN (EAN)	4032248911165
Qty.	1 pc(s).

VSSC
VSSC6 RTD 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	Width (inches)	0.48 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	56.8 g		

Temperatures

Humidity	5...96 %	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	80 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...80 °C		

Probability of failure

λges	61	MTTF	1,871 Jahre
PFH in $1*10^{-9}$ per hour	3.25	SFF	94.67 %
SIL in compliance with IEC 61508	3		

EX protection data

Input power, max. P_I	0.75 W	Internal capacity, max. C_I	7 nF
Internal inductance, max. L_I	0 µH	Temperature class T4/135°C (-40°C ... +120 °C) Ii	300 mA
Temperature class T5/100°C (-40 ° C ... +85 °C) Ii	300 mA	Temperature class T6/85 °C (-40 °C ... +70 °C) Ii	300 mA

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_I	300 mA
Input voltage, max. U_i	5 V	Internal capacity, max. C_I	7 nF
Internal inductance, max. L_I	0 µH		

General data

Colour	Light Blue	Design	Terminal
Isolating function	No	Mounting rail	TS 35
Optical function display	No	Protection degree	IP20
Segment	Instrumentation and Control	UL 94 flammability rating	V-0

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III

VSSC
VSSC6 RTD 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

Rated data IEC / EN

Dielectric strength at FG against PE	≥ 500 V	Discharge current I_{max} (8/20µs) wire-PE	5 kA
Discharge current I_{max} (8/20µs) wire-wire	5 kA	Discharge current I_n (8/20µs) wire-PE	2.5 kA
Discharge current I_n (8/20µs) wire-wire	2.5 kA	Discharge current, max. (8/20 µs)	10 kA
Input voltage, max. U_i	5 V	Insertion loss	119.64 MHz
Lightning test current I_{imp} (10/350 µs)	0.5 kA	Lightning test current, I_{imp} (10/350 µs) Wire–PE	0.5 kA
Max. continuous voltage, Uc (DC)	5 V	Overload - failure mode	Modus 2
Protection level U_P (typ.)	≤ 1.8 kV	Protection level, U_P wire - wire	15 V
Pulse-reset capacity	≤ 10 ms	Rated current I_N	300 mA
Rated voltage (DC)	1 V	Requirements category acc. to IEC 61643-21	C2, D1
Signal transmission properties (-3 dB)	120 Mhz	Standards	IEC61643-21:2009, DIN EN 60079-0.2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV 1.2/50 µs	Surge current-carrying capacity C3	10 A 10/1000 µs
Surge current-carrying capacity D1	0.5 kA 10/350 µs	Voltage type	DC
Volume resistance	1.8 Ω 10 %		

Further details of approvals

GOST certificate	GOST-Zertifikat

Connection data

Type of connection	Screw connection, Torx® T15, Slotted 0.8 x 4	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.8 Nm	Clamping range, min.	0.5 mm²
Clamping range, max.	4 mm²	Wire cross-section, solid, min.	0.5 mm²
Wire cross-section, solid, max.	6 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²	Connection cross-section, stranded, min.	0.5 mm²
Connection cross-section, stranded, max.	4 mm²		

Ratings IECEx/ATEX/cUL

ATEX certificate	ATEX Certificate	IEC Ex certificate	IECEX Zertifikat
cUL certificate	cUL Certificate		

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000943
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-11
eClass 9.1	27-13-08-07		

VSSC
VSSC6 RTD 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

Product information

Descriptive text ordering data	End plate AP VSSC LB 1067230000
Descriptive text technical data	ATEX approval: II 1 G EX ia IIC T4...T6 Ga II 1 D EX ia IIIC T135°C...T85°C DEKRA No: 11ATEX0023 X
Descriptive text accessories	Screwdrivers: Torx® 9009170000 Slot 0.8x4.0 9008340000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 1768260000; SNAPMARK 1805880000

Approvals

Approvals	
ROHS	Conform

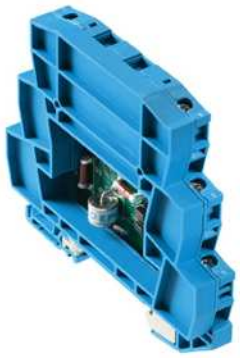
Downloads

Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet VSSC Type examination certificate Instruction sheet VSSC EX

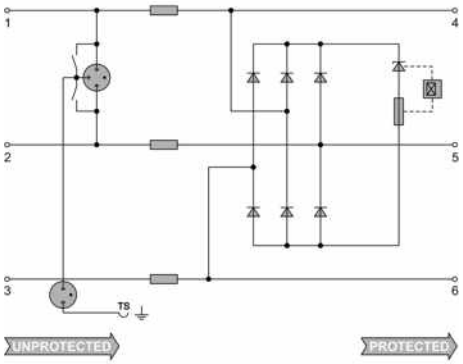
VSSC
VSSC6 RTD EX

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

