

VSSC

VSSC4 CL FG 12VDC 0.5A

Weidmüller Interface GmbH & Co. KG
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Similar to illustration

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

Type	VSSC4 CL FG 12VDC 0.5A
Order No.	1063760000
Version	Surge protection for instrumentation and control, 12 V, 500 mA, IEC 61643-21, HART-compatible
GTIN (EAN)	4032248829217
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Width	6.2 mm	Width (inches)	0.244 inch
Height	76 mm	Height (inches)	2.992 inch
Depth	58.5 mm	Depth (inches)	2.303 inch
Net weight	27.4 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

λ_{ges}	29	MTTF	3,936 Jahre
PFH in $1 \cdot 10^{-9}$ per hour	1.95	SFF	93.28 %
SIL in compliance with IEC 61508	3		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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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	1 nF
Internal inductance, max. L_i	0 μ H		

General data

Colour	black	Design	Terminal
Isolating function	No	Optical function display	No
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

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
Fuse	0.5 A	Insertion loss	791.76 kHz
Lightning test current I_{imp} (10/350 μs)	0.5 kA	Lightning test current, I_{imp} (10/350 μs)	0.5 kA
Max. continuous voltage, U_c (DC)	15 V	Wire-PE	0.5 kA
Protection level U_p (typ.)	≤ 1500 V	Overload - failure mode	Modus 2
Rated current I_N	500 mA	Pulse-reset capacity	≤ 20 ms
Requirements category acc. to IEC 61643-21	C2, C3, D1	Rated voltage (DC)	12 V
Standards	IEC 61643-21, HART-compatible	Signal transmission properties (-3 dB)	750 KHz
Surge current-carrying capacity C3	50 A 10/1000 μs	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs
Voltage type	DC	Surge current-carrying capacity D1	0.5 kA 10/350 μs
		Volume resistance	1.8 Ω 10 %

Further details of approvals

GOST certificate	GOST-Zertifikat
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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
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Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
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	27-13-08-07
eClass 9.1	27-13-08-07		

Approvals

Approvals



ROHS Conform

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Technical data

Downloads

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

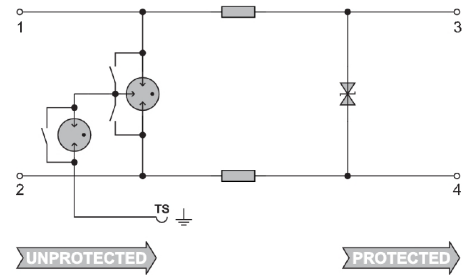
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Drawings



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Circuit diagram

