

VSSC

VSSC4 CL FG 48VAC/DC Ex

Weidmüller Interface GmbH & Co. KG
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 Germany
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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 48VAC/DC Ex
Order No.	1063820000
Version	Surge protection for instrumentation and control, 48 V, 68 V, 300 mA, IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
GTIN (EAN)	4032248829262
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	12.2 mm	Width (inches)	0.48 inch
Height	76 mm	Height (inches)	2.992 inch
Depth	58.5 mm	Depth (inches)	2.303 inch
Net weight	39.8 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	29	MTTF	3,936 Jahre
PFH in 1*10 ⁻⁹ per hour	1.95	SFF	93.28 %
SIL in compliance with IEC 61508	3		

EX protection data

Input power, max. P _I	0.75 W	Internal capacity, 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

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	55 V	Internal capacity, max. C _I	1 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
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Technical data
Rated data IEC / EN

Dielectric strength at FG against PE	≥ 500 V	Discharge current I_{max} (8/20 μ s) wire-PE	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_n (8/20 μ s) wire-wire	2.5 kA	Discharge current, max. (8/20 μ s)	10 kA
Input voltage, max. U_i	55 V	Insertion loss	5.34 MHz
Lightning test current I_{imp} (10/350 μ s)	0.5 kA	Lightning test current, I_{imp} (10/350 μ s) Wire-PE	0.5 kA
Max. continuous voltage, U_c (AC)	60 V	Max. continuous voltage, U_c (DC)	85 V
Overload - failure mode	Modus 2	Protection level U_p (typ.)	≤ 2000 V
Pulse-reset capacity	≤ 15 ms	Rated current I_N	300 mA
Rated voltage (AC)	48 V	Rated voltage (DC)	68 V
Requirements category acc. to IEC 61643-21	C2, C3, D1	Signal transmission properties (-3 dB)	5 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 μ s 5 kV 1.2/50 μ s
Surge current-carrying capacity C3	50 A 10/1000 μ s	Surge current-carrying capacity D1	0.5 kA 10/350 μ s
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 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

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		

Data sheet

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Technical data

Product information

Descriptive text ordering data	End plate AP VSSC4 LB 1067240000
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

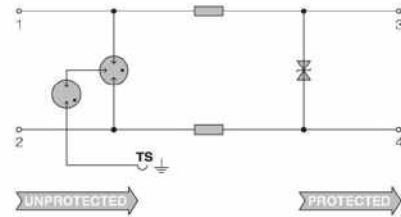
Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN_WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet VSSC Type examination certificate Instruction sheet VSSC EX

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Drawings

Similar to illustration



Circuit diagram