

## VSSC

### VSSC4 CL FG 24VAC/DC Ex

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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www.weidmueller.com



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 24VAC/DC Ex
Order No.	<a href="#">1063810000</a>
Version	Surge protection for instrumentation and control, 24 V, 34 V, 300 mA, IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006, HART-compatible
GTIN (EAN)	4032248829255
Qty.	1 pc(s).

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

Width	12.4 mm	Width (inches)	0.488 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 <sup>-9</sup> per hour	1.95	SFF	93.28 %
SIL in compliance with IEC 61508	3		

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Protection Ex - Data**

ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
IECEx - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da	IECEx - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
Input power, max. P <sub>I</sub>	0.75 W	Input voltage, max. U <sub>i</sub>	42 V
Internal capacity, 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		

**CSA protection data**

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I <sub>I</sub>	300 mA
Input voltage, max. U <sub>i</sub>	42 V	Internal capacity, max. C <sub>I</sub>	1 nF
Internal inductance, max. L <sub>I</sub>	0 μH		

**General data**

Colour	Light Blue	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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Creation date April 13, 2020 12:38:44 AM CEST

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## Technical data

### Rated data IEC / EN

Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Voltage type	AC/DC	Max. continuous voltage, U <sub>c</sub> (AC)	30 V
Max. continuous voltage, U <sub>c</sub> (DC)	42 V	Discharge current, max. (8/20 μs)	10 kA
Discharge current I <sub>n</sub> (8/20 μs) wire-PE	2.5 kA	Discharge current I <sub>max</sub> (8/20 μs) wire-PE	5 kA
Discharge current I <sub>n</sub> (8/20 μs) wire-wire	2.5 kA	Discharge current I <sub>max</sub> (8/20 μs) wire-wire	5 kA
Lightning test current I <sub>imp</sub> (10/350 μs)	0.5 kA	Lightning test current, I <sub>imp</sub> (10/350 μs) Wire-PE	0.5 kA
Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006, HART-compatible	Protection level U <sub>p</sub> (typ.)	≤ 2000 V
Dielectric strength at FG against PE	≥ 500 V	Input voltage, max. U <sub>i</sub>	42 V
Insertion loss	3.45 MHz	Number of poles	1
Overload - failure mode	Modus 2	Pulse-reset capacity	≤ 15 ms
Rated current I <sub>N</sub>	300 mA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Signal transmission properties (-3 dB)	3.4 MHz	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs
Surge current-carrying capacity C3	50 A 10/1000 μs	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

### 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 <sup>2</sup>
Clamping range, max.	4 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	6 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm <sup>2</sup>	Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	4 mm <sup>2</sup>		

### Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
eClass 9.0	27-13-08-07	eClass 9.1	27-13-08-07
eClass 10.0	27-13-08-07	UNSPSC	30-21-19-21

### Approvals

Approvals



ROHS Conform

**Data sheet****VSSC  
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**Technical data****Downloads**

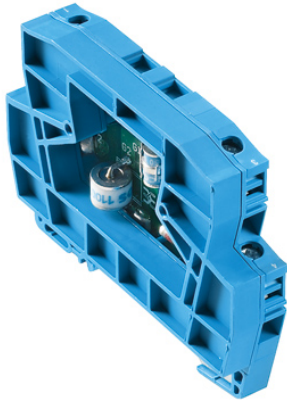
Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet VSSC</a> <a href="#">Instruction sheet VSSC EX</a>

**Data sheet**

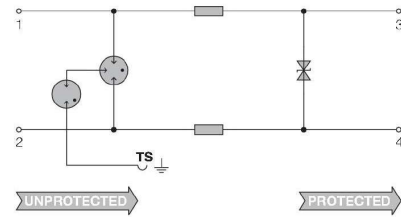
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**Drawings**



Similar to illustration



Circuit diagram

