

## VSSC

### VSSC4 SL FG 24VAC/DC Ex

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 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 industrial and process automation as well as in building automation applications.

#### General ordering data

Type	VSSC4 SL FG 24VAC/DC Ex
Order No.	<a href="#">1063930000</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
GTIN (EAN)	4032248829354
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	39.6 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	43	MTTF	2,655 Jahre
PFH in 1*10 <sup>-9</sup> per hour	0.9	SFF	97.91 %
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		

**Rated data UL**

UL certificate UL Zertifikat

**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		

Creation date May 1, 2020 2:59:28 PM CEST

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**Technical data****Insulation coordination acc. to EN 50178**

Pollution severity	2	Surge voltage category	III
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**Rated data IEC / EN**

Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Voltage type	AC/DC	Max. continuous voltage, $U_c$ (AC)	30 V
Max. continuous voltage, $U_c$ (DC)	42 V	Discharge current, max. (8/20 $\mu$ s)	10 kA
Discharge current $I_n$ (8/20 $\mu$ s) GND-PE	2.5 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) GND-PE	10 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	10 kA
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	1 kA	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) Wire-PE	0.5 kA
Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006	Protection level $U_p$ (typ.)	150 V
Dielectric strength at FG against PE	$\geq 500$ V	Input voltage, max. $U_i$	42 V
Insertion loss	5.24 MHz	Number of poles	1
Overload - failure mode	Modus 2	Pulse-reset capacity	$\leq 35$ ms
Rated current $I_N$	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 $\mu$ s 5 kV 1.2/50 $\mu$ s
Surge current-carrying capacity C3	10 A 10/1000 $\mu$ s	Surge current-carrying capacity D1	1 kA 10/350 $\mu$ s
Volume resistance	1.8 $\Omega$ 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 <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

Creation date May 1, 2020 2:59:28 PM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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

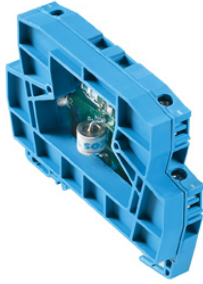
Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet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

**Data sheet**

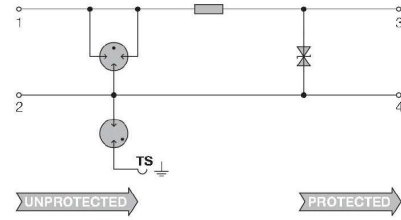
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**Drawings**



Similar to illustration



Circuit diagram

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**Accessories**
**Blank**


The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

**General ordering data**

Type	DEK 5/5 MC NE WS	Version	
Order No.	<a href="#">1609801044</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4008190397111	Weidmueller, white	
Qty.	1,000 pc(s).		