

## VSSC

### VSSC4 SL 24VAC/DC 0.5A

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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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 24VAC/DC 0.5A
Order No.	<a href="#">1063840000</a>
Version	Surge voltage arrester, 24 V, 34 V, 500 mA, IEC 61643-21
GTIN (EAN)	4032248829286
Qty.	10 pc(s).

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

Width	6.2 mm	Width (inches)	0.244 inch
Height	76.6 mm	Height (inches)	3.016 inch
Depth	58.5 mm	Depth (inches)	2.303 inch
Net weight	27.6 g		

**Temperatures**

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

**Probability of failure**

$\lambda_{ges}$	43	MTTF	2,655
PFH in $1 \cdot 10^{-9}$ per hour	0.9	SFF	97.91 %
SIL in compliance with IEC 61508	3		

**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. $U_i$	42 V	Internal capacity, max. $C_i$	2 nF
Internal inductance, max. $L_i$	0 $\mu$ H		

**General data**

Colour	Black	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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**Rated data IEC / EN**

Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	10 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA
Discharge current, max. (8/20 $\mu$ s)	10 kA	Fuse	0.5 A
Insertion loss	3.42 MHz	Lightning test current $I_{imp}$ (10/350 $\mu$ s)	1 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s)		Max. continuous voltage, $U_c$ (AC)	30 V
Wire-PE	0.5 kA	Overload - failure mode	Modus 2
Max. continuous voltage, $U_c$ (DC)	42 V	Pulse-reset capacity	$\leq$ 35 ms
Protection level $U_p$ (typ.)	150 V	Rated voltage (AC)	24 V
Rated current $I_N$	500 mA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Rated voltage (DC)	34 V	Standards	IEC 61643-21
Signal transmission properties (-3 dB)	3.4 MHz	Surge current-carrying capacity C3	10 A 10/1000 $\mu$ s
Surge current-carrying capacity C2	2.5 kA 8/20 $\mu$ s 5 kV 1.2/50 $\mu$ s	Voltage type	AC/DC
Surge current-carrying capacity D1	1 kA 10/350 $\mu$ s		
Volume resistance	1.8 $\Omega$ 10 %		

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**Technical data****Further details of approvals**

GOST certificate	GOST-Zertifikat
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**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, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, 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>	Wire connection cross section, stranded, rated connection, min.	0.5 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, max.	4 mm <sup>2</sup>		

**Rated data UL**

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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**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	27-13-08-11
eClass 9.1	27-13-08-07		

**Product information**

Descriptive text ordering data	End plate AP VSSC4 1063120000
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
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**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">CE PAPER</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN_WSCAD</a>
User Documentation	<a href="#">Instruction sheet VSSC</a>

Creation date August 24, 2017 4:58:32 PM CEST

Catalogue status 11.08.2017 / We reserve the right to make technical changes.

**Data sheet**

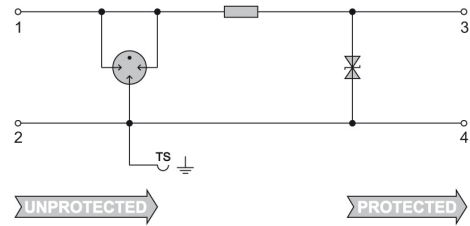
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**Drawings**



Similar to illustration



Circuit diagram



**Data sheet**

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**Accessories**

**Torx® screwdriver**

VDE insulated Torx®-screwdriver, SDIT SoftFinish grip



**General ordering data**

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2009-12-31T00:00:00+01:00	SDI T15	<a href="#">9009650000</a>	Screwdriver, Blade width (B): 80 mm, Blade thickness (A): Yes	4032248267842	1 pc(s).

**Accessories ( end plates)**

End plates (AP) for the VSSC product series in light blue and black



**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
AP VSSC4	<a href="#">1063120000</a>	VSSC, End plate	4032248947560	50 pc(s).

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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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC	<a href="#">1609801044</a>	Dekafix, Terminal marker,	4008190397111	1,000 pc(s).
NE WS		5 x 5 mm, Pitch in mm (P): 5,00 Weidmueller, White		