

**VSSC4 CL 48VAC/DC 0.5A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://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

Version	Surge protection for instrumentation and control, Surge protection for measurement and control
Order No.	<a href="#">1063740000</a>
Type	VSSC4 CL 48VAC/DC 0.5A
GTIN (EAN)	4032248829095
Qty.	10 items

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## Technical data

## Approvals

## Approvals



CSAEX



ROHS

Conform

UL File Number Search

[UL Website](#)

Certificate No. (UL)

E311081

## Dimensions and weights

Depth	58.5 mm
Height	76 mm
Width	6.2 mm
Net weight	26.6 g

Depth (inches)	2.3031 inch
Height (inches)	2.9921 inch
Width (inches)	0.2441 inch

## Temperatures

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

## Probability of failure

SIL in compliance with IEC 61508	2	MTTF	6008 a
SFF	89.74 %	λ <sub>ges</sub>	19
PFH in 1*10 <sup>-9</sup> per hour	1.95		

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

## Rated data UL

Certificate No. (UL)	E311081	UL certificate	<a href="#">UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf)</a>
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## CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. II	500 mA	Gas group C	IIB
Internal inductance, max. LI	0 µH	Internal capacity, max. CI	1 nF
Input voltage, max. Ui	85 V		

## General data

Optical function display	No	Segment	Measurement - Monitoring - Setting
Version	Surge protection for measurement and control	Design	Terminal
UL 94 flammability rating	V-0	Colour	black
Protection degree	IP20	Mounting rail	TS 35
Isolating function	No		

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## Technical data

## Insulation coordination acc. to EN 50178

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

Number of poles	1	Rated voltage (AC)	48 V
Rated voltage (DC)	68 V	Rated current IN	500 mA
Voltage type	AC/DC	Fuse protection	0.5 A
Volume resistance	1.8 Ω 10 %	Standards	IEC 61643-21, HART-compatible
Lightning test current limp (10/350 µs)	0.5 kA	Discharge current, max. (8/20 µs)	10 kA
Requirements category acc. to IEC 61643-21	C2, C3, D1	Insertion loss	5.14 MHz
Max. continuous voltage, Uc (AC)	60 V	Max. continuous voltage, Uc (DC)	85 V
Surge current-carrying capacity D1	0.5 kA 10/350 µs	Surge current-carrying capacity C3	50 A 10/1000 µs
Pulse-reset capacity	≤ 110 ms	Signal transmission properties (-3 dB)	5 MHz
Lightning test current, limp (10/350 µs)	0.5 kA	Overload - failure mode	Modus 2
Wire-PE		Discharge current Imax (8/20µs) wire-PE5	kA
Discharge current In (8/20µs) wire-wire	2.5 kA	Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV
Discharge current Imax (8/20µs) wire-wire	5 kA		1.2/50 µs

## Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)
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## Connection data

Stripping length	10 mm	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>

## Electrical data

Voltage type	AC/DC
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## General data

Number of poles	1	Protection degree	IP20
Colour	black		

## Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/ VSSC.PDF (application/ pdf)
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**Technical data****Important note**

Product information	Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.
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**Classifications**

ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-01
ECLASS 15.0	27-17-15-01		

**Tender specification sheets**

Long specification	Surge protection in a one piece, 6.2 mm wide DIN rail module for a signal circuit with 48 V UC, 2-wire technology. A current loop with max. 0.5 A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.	Short specification	Surge protection in a one piece, 6.2 mm wide DIN rail module for a signal circuit with 2-wire technology. Version: 48V UC
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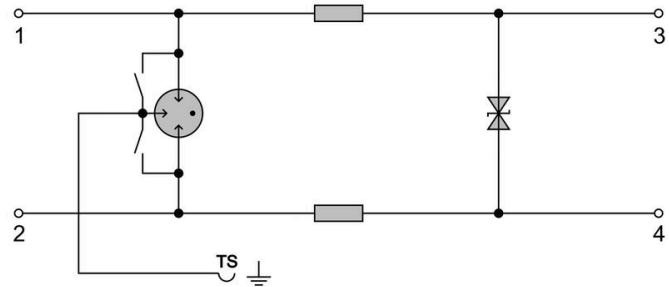
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**Drawings**

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UNPROTECTED

PROTECTED

Circuit diagram



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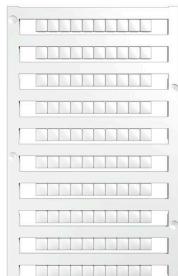
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**Accessories****Accessories (end plates)**

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

**General ordering data**

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

**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.	1000 ST	