

**VSSC4 MOV 12VDC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Surge protection with individual components

- With suppressor diodes

Suppressor diodes work similarly as conventional Zener diodes. The diode becomes conductive within 10&ndash; 100ps after a certain breakdown voltage, set by the manufacturer, is exceeded. Compared to Zener diodes, suppressor diodes have a higher current-carrying capacity and a shorter reaction time.

**General ordering data**

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, $U_P(L/N-PE) \leq 100\text{ V}$
Order No.	<a href="#">1063950000</a>
Type	VSSC4 MOV 12VDC
GTIN (EAN)	4032248829378
Qty.	10 pc(s).

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## Technical data

## Dimensions and weights

Depth	58.5 mm	Depth (inches)	2.303 inch
Height	76 mm	Height (inches)	2.992 inch
Width	6.2 mm	Width (inches)	0.244 inch
Net weight	27.8 g		

## 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	3	MTTF	4,391 a
SFF	100 %	λges	26
PFH in 1*10 <sup>-9</sup> per hour	0		

## Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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## CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I <sub>i</sub>	500 mA
Input voltage, max. U <sub>i</sub>	15 V	Internal capacity, max. C <sub>i</sub>	12 nF
Internal inductance, max. L <sub>i</sub>	0 μH		

## General data

Colour	black	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 mea- surement and control		

## Insulation coordination acc. to EN 50178

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

Capacitance	11.2 nF	Discharge current I <sub>max</sub> (8/20μs) wire-PE	1 kA
Discharge current I <sub>n</sub> (8/20μs) wire-PE	0.5 kA	Discharge current, max. (8/20 μs)	1 kA
Max. continuous voltage, U <sub>c</sub> (DC)	15 V	Number of poles	1
Overload - failure mode	Mode 1	Protection level U <sub>p</sub> (typ.)	≤ 100 V
Rated current I <sub>N</sub>	20 A	Rated voltage (DC)	12 V
Requirements category acc. to IEC 61643-21	C1	Standards	IEC 61643-21
Surge current-carrying capacity C1	0.25 kA 8/20 μs 0.5 kV 1.2/50 μs	Surge current-carrying capacity C2	1 kA 8/20 μs
Voltage type	AC/DC	Volume resistance	<0.1 Ω

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## Technical data

## Further details of approvals

GOST certificate

GOST-Zertifikat

## 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>

## Ratings IECEx/ATEX/cUL

cUL certificate

cUL Certificate

## Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ETIM 9.0	EC000943
ECLASS 9.0	27-13-08-07	ECLASS 9.1	27-13-08-07
ECLASS 10.0	27-13-08-07	ECLASS 11.0	27-13-08-07
ECLASS 12.0	27-17-90-90	ECLASS 13.0	27-17-90-90

## Tender specification sheets

Long specification	Feed-through terminal, 6.2 mm wide with varistor arrester between the signal line connection and the mounting rail potential, TS 35 contact base. A signal with max. 32A 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	Feed-through terminal with a varistor as central protection between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 12 V UC
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## Important note

Product information

Mode 1: State where the voltage-limiting part of the SPD was disconnected. The voltage limiting function is no longer available, but the cable is still functional.

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Approvals



ROHS Conform

UL File Number Search UL Website

Certificate No. (UL) E311081

**Downloads**Approval/Certificate/Document of Conformity [SIL Paper](#)  
[EU Konformitätserklärung / EU Declaration of Conformity](#)Engineering Data [CAD data – STEP](#)User Documentation [Beipackzettel / Instruction sheet](#)Catalogues [Catalogues in PDF-format](#)

Brochures

**VSSC4 MOV 12VDC**

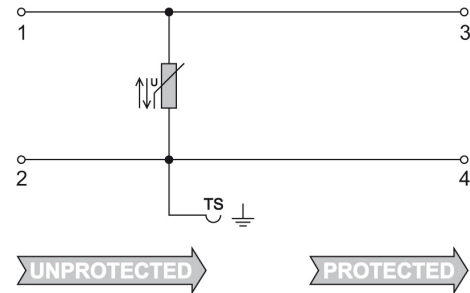
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**Drawings**



Similar to illustration



Circuit diagram



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

### 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).	