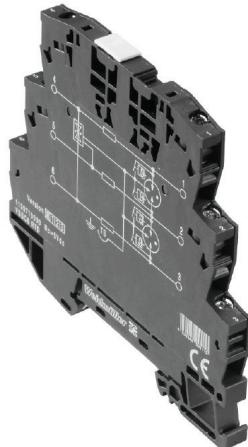


## VSSC6 RTD

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

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

Version	Surge protection for instrumentation and control, Surge protection for measurement and control
Order No.	<a href="#">1139710000</a>
Type	VSSC6 RTD
GTIN (EAN)	4032248921713
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	81 mm
Height	88.5 mm
Width	6.2 mm
Net weight	43.8 g

Depth (inches)	3.189 inch
Height (inches)	3.4842 inch
Width (inches)	0.2441 inch

## Temperatures

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

Operating temperature	-40 °C...70 °C
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## Probability of failure

SIL in compliance with IEC 61508	3
SFF	94.05 %
PFH in 1*10-9 per hour	3.75

MTTF	1812 a
λges	63

## 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

Internal inductance, max. LI	0 μH
Input voltage, max. Ui	5 V

## Rated data UL

Certificate No. (UL)	E311081
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Gas group D	IIA
Input-current, max. II	300 mA
Internal inductance, max. LI	0 μH
Input voltage, max. Ui	5 V

Gas groups A, B	IIC
Gas group C	IIB
Internal capacity, max. CI	9 nF
Mounting rail	TS 35

## General data

Optical function display	No
Version	Surge protection for measurement and control
UL 94 flammability rating	V-0
Protection degree	IP20

Segment	Measurement - Monitoring - Setting
Design	Terminal
Colour	black
Mounting rail	TS 35

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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 (DC)	1 V
Rated current IN	300 mA	Voltage type	DC
Volume resistance	1.8 Ω 10 %	Standards	IEC 61643-21
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	117.08 MHz
Max. continuous voltage, Uc (DC)	5 V	Surge current-carrying capacity D1	0.5 kA 10/350 µs
Surge current-carrying capacity C3	10 A 10/1000 µs	Pulse-reset capacity	≤ 10 ms
Overload - failure mode	Modus 2	Rated load current IL	300 mA
Discharge current In (8/20µs) wire-wire	2.5 kA	Discharge current Imax (8/20µs) wire-PE5 kA	
Discharge current Imax (8/20µs) wire-wire	5 kA	Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV 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	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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## 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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**Technical data****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 PT100 signal circuit with 12 V DC, 3-wire technology. A 3-wire signal with max. 0.3A 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 PT100 signal circuit with 3-wire technology. Version: 5V DC
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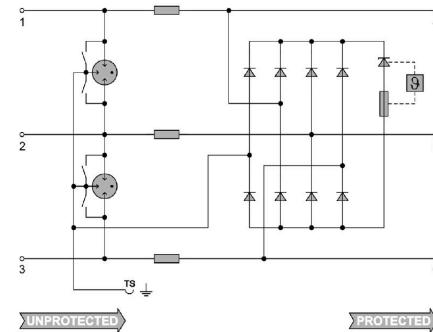
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**Drawings**

Similar to illustration



Circuit diagram

