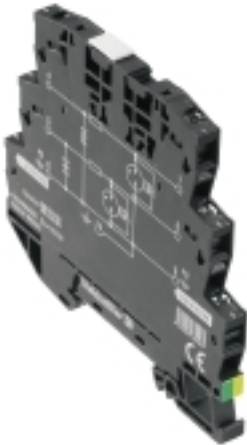


**VSSC6 RS232****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Overvoltage protection for RS232 data interfaces

Protective module for mounting rail or as socket-adapter enclosure

Serial interface for point-to-point connections up to 20 kBit/s earth-related voltage signal: logical one (mark) -15 V to -3 V logical zero (space) +3 V to +15 V max. signal level +/-15 V Cable length up to 20 m, depending on the transmission rate.

**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="#">1064990000</a>
Type	VSSC6 RS232
GTIN (EAN)	4032248830237
Qty.	10 pc(s).

## VSSC6 RS232

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## Technical data

## Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Width	6.2 mm	Width (inches)	0.244 inch
Net weight	40.2 g		

## Temperatures

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

## Probability of failure

SIL in compliance with IEC 61508	3	MTTF	1,502 a
SFF	95.39 %	λges	76
PFH in 1*10 <sup>-9</sup> per hour	3.5		

## Rated data UL

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

Input current, max. I <sub>I</sub>	500 mA	Internal capacity, max. C <sub>I</sub>	7 nF
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## 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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## Technical data

## 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)

20 kA

Lightning test current  $I_{\text{imp}}$  (10/350  $\mu$ s)

0.5 kA

Max. continuous voltage,  $U_c$  (DC)

15 V

Overload - failure mode

Modus 2

Pulse-reset capacity

 $\leq 15$  ms

Rated voltage (DC)

12 V

Signal transmission properties (-3 dB)

1.4 MHz

Surge current-carrying capacity C2

2.5 kA 8/20  $\mu$ s 5 kV1.2/50  $\mu$ s

Surge current-carrying capacity D1

0.5 kA 10/350  $\mu$ s

Volume resistance

1.8  $\Omega$  10 %Discharge current  $I_{\max}$  (8/20 $\mu$ s) wire-

wire

10 kA

Discharge current  $I_n$  (8/20 $\mu$ s) wire-wire

2.5 kA

Insertion loss

1.43 Mhz

Lightning test current,  $I_{\text{imp}}$  (10/350  $\mu$ s)

Wire-PE

0.5 kA

Number of poles

1

Protection level  $U_p$  (typ.) $\leq 100$  VRated current  $I_N$ 

500 mA

Requirements category acc. to IEC

61643-21

C2, C3, D1

Standards

IEC 61643-21

Surge current-carrying capacity C3

10 A 10/1000  $\mu$ s

Voltage type

AC

## Further details of approvals

GOST certificate

GOST-Zertifikat

## Connection data

Stripping length

10 mm

Tightening torque, min.

0.5 Nm

Clamping range, min.

0.5 mm<sup>2</sup>

Wire cross-section, solid, min.

0.5 mm<sup>2</sup>

Conductor cross-section, flexible, AEH

(DIN 46228-1), min.

0.5 mm<sup>2</sup>

Connection cross-section, stranded, min.

0.5 mm<sup>2</sup>

Type of connection

Screw connection

Tightening torque, max.

0.8 Nm

Clamping range, max.

4 mm<sup>2</sup>

Wire cross-section, solid, max.

6 mm<sup>2</sup>

Conductor cross-section, flexible, AEH

(DIN 46228-1), max.

4 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 8.0

EC000943

ECLASS 9.0

27-13-08-07

ECLASS 10.0

27-13-08-07

ECLASS 12.0

27-17-90-90

ETIM 7.0

EC000943

ETIM 9.0

EC000943

ECLASS 9.1

27-13-08-07

ECLASS 11.0

27-13-08-07

ECLASS 13.0

27-17-90-90

## VSSC6 RS232

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## Technical data

## Tender specification sheets

Long specification	Short specification
Surge protection in a one piece, 6.2 mm wide DIN rail module for a RS 232 signal circuit with 12 V DC, 2-wire technology. A RS 232 data signal with max. 0.6A 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.	Surge protection in a one piece, 6.2 mm wide DIN rail module for a RS 232 signal circuit with 2-wire technology. Version: 12V DC

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

## 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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## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E311081

## Downloads

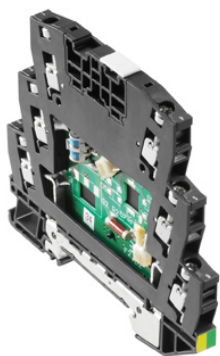
Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

## VSSC6 RS232

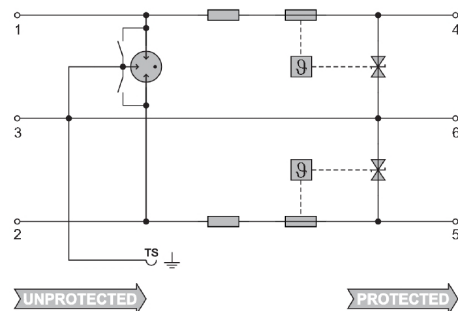
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## Drawings



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).	

## Accessories (end plates)



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

## General ordering data

Type	AP VSSC6	Version
Order No.	<a href="#">1063110000</a>	VSSC, End plate
GTIN (EAN)	4032248947553	
Qty.	50 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****SnapMark**

SnapMark - this tag carrier has been developed specifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows cross-connections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

**General ordering data**

Type	SNAPMARK I	Version
Order No.	<a href="#">1805880000</a>	Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248273614	Weidmueller, white
Qty.	50 pc(s).	