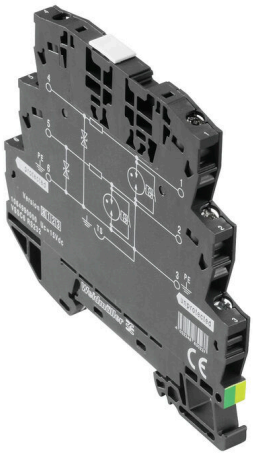
Data sheet

VSSC6 RS232

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

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, UP(L/N-PE) ≤ 100 V
Order No.	1064990000
Type	VSSC6 RS232
GTIN (EAN)	4032248830237
Qty.	10 items

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Technical data

Approvals

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

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.4842 inch
Width	6.2 mm	Width (inches)	0.2441 inch
Net weight	40.2 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	1502 a
SFF	95.39 %	λges	76
PFH in 1*10-9 per hour	3.5		

Environmental Product Compliance

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

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf)

CSA protection data

Input-current, max. II	500 mA	Internal capacity, max. CI	7 nF

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

Rated data IEC / EN

Number of poles	1	Rated voltage (DC)	12 V
Rated current IN	500 mA	Protection level UP (typ.)	≤ 100 V
Voltage type	AC	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)	20 kA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Insertion loss	1.43 Mhz	Max. continuous voltage, Uc (DC)	15 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	≤ 15 ms	Signal transmission properties (-3 dB)	1.4 MHz
Lightning test current, limp (10/350 µs) Wire-PE	0.5 kA	Overload - failure mode	Modus 2
Rated load current IL	500 mA	Discharge current In (8/20µs) wire-wire	2.5 kA
Discharge current In (8/20µs) wire-PE	2.5 kA	Discharge current Imax (8/20µs) wire-PE	10 kA
Discharge current Imax (8/20µs) wire-wire	10 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)

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 mm²	Clamping range, max.	4 mm²
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	6 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²
Connection cross-section, stranded, min.	0.5 mm²	Connection cross-section, stranded, max.	4 mm²

Electrical data

Voltage type	AC

General data

Number of poles	1	Protection degree	IP20
Colour	black		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/ VSSC.PDF (application/ pdf)

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	27-17-15-03
ECLASS 15.0	27-17-15-03		

Tender specification sheets

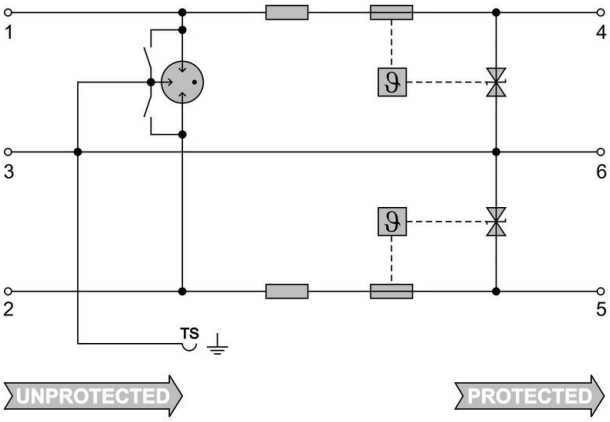
Long specification	Surge protection in a one piece, 6.2 mm wide DIN rail module for a RS 232 signal circuit with 12 V DC, 2-wire technology. A RS 232 data signal with max. 0.6A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting 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.	Short specification	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

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Drawings



Circuit diagram

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