

VSSC6 RS232

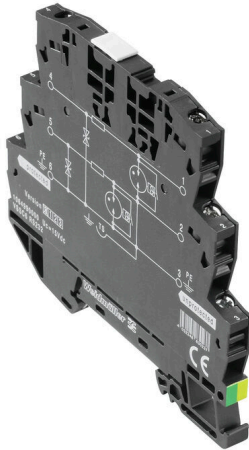
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

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Germany

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Overvoltage protection for RS232 data interfaces

Protective module for mounting rail or as socket-adaptor 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

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, 7cl
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)
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CSA protection data

Input-current, max. I _I	500 mA	Internal capacity, max. C _I	7 nF
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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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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)	12 V
Rated current I _N	500 mA	Protection level UP (typ.)	≤ 100 V
Voltage type	AC	Volume resistance	1.8 Ω 10 %
Standards	IEC 61643-21	Lightning test current I _{imp} (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, U _c (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, I _{imp} (10/350 μs)	0.5 kA	Overload - failure mode	Modus 2
Wire-PE			
Rated load current I _L	500 mA	Discharge current I _n (8/20 μs) wire-wire	2.5 kA
Discharge current I _n (8/20 μs) wire-PE	2.5 kA	Discharge current I _{max} (8/20 μs) wire-PE	10 kA
Discharge current I _{max} (8/20 μs) 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)
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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 ²	Clamping range, max.	4 mm ²
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	6 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm ²
Connection cross-section, stranded, min.	0.5 mm ²	Connection cross-section, stranded, max.	4 mm ²

Electrical data

Voltage type	AC
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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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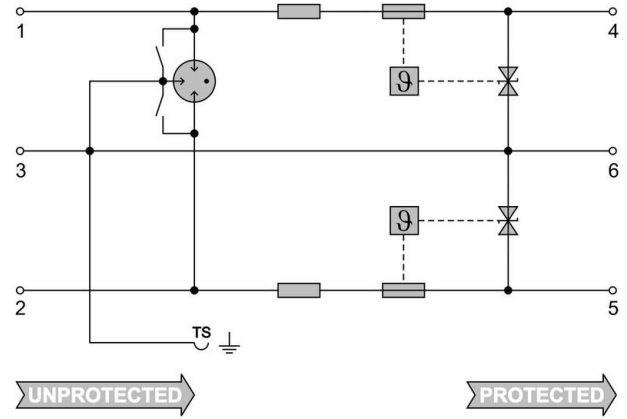
Technical data

Classifications

ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-03
ECLASS 15.0	27-17-15-03		

Drawings

Similar to illustration



Circuit diagram

