Data sheet

VSPC RS485 2CH

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

www.weidmueller.com



Data surge protection
- for RS 422 and RS 485 signal
- suitable as transient surge protection for fast data signals

General ordering data

Version	Surge protection for instrumentation and control, without warning function / function indicator, UP(L/N-PE) 250 V
Order No.	8924670000
Type	VSPC RS485 2CH
GTIN (EAN)	4032248696314
Qty.	1 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	69 mm	Depth (inches)	2.7165 inch
Height	90 mm	Height (inches)	3.5433 inch
Width	17.8 mm	Width (inches)	0.7008 inch
Net weight	27.5 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	3	MTTF	2003 a
SFF	92.54 %	λges	57
PFH in 1*10-9 per hour	4.25		

Environmental Product Compliance

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

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate - PDF/ E311081VOL1SEC2.pdf (application/pdf)

CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Gas group C	IIB	Internal inductance, max. LI	0 µH
Internal capacity, max. CI	11 nF	Input voltage, max. Ui	6.4 V

General data

Segment	Measurement - Monitoring - Setting	Version	without warning function / function indicator
Design	Terminal, miscellaneous	UL 94 flammability rating	V-0
Colour	orange	Protection degree	IP20

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	Signalling contact	No
Rated voltage (AC)	5 V	Rated voltage (DC)	5 V
Rated current IN	450 mA	Protection level on output side Wire-wire 1 kV/µs, typically	10 V
Protection level on output side Wire-PE 1kV/µs, typically	10 V	Protection level on output side Wire-wire 8/20 µs, typically	15 V
Protection level, UP wire - wire	15 V	Protection level, UP wire - PE	35 V
Protection level UP (typ.)	250 V	Voltage type	AC/DC
Volume resistance	2.20 Ω	Standards	IEC 61643-21
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Insertion loss	113.7 MHz
Max. continuous voltage, Uc (AC)	5 V	Max. continuous voltage, Uc (DC)	6.4 V
Lightning test current, limp (10/350 µs) wire-wire	0.2 kA	Surge current-carrying capacity D1	2.5 kA 10/350 µs
Protection level, UP GND - PE	500 V	Surge current-carrying capacity C1	<1 kA 8/20 µs
Surge current-carrying capacity C3	100 A 10/1000 µs	Lightning test current, limp (10/350 µs) GND-PE	0.2 kA
Pulse-reset capacity	≤ 20 ms	Signal transmission properties (-3 dB)	113.6 MHz
Lightning test current, limp (10/350 µs) Wire-PE	2 x 0.2 kA	Overload - failure mode	Modus 2
Discharge current Imax (8/20µs) GND-PE	10 kA	Discharge current In (8/20µs) wire-wire	2.5 kA
Discharge current Imax (8/20µs) wire-PE	2 x 10 kA	Discharge current Imax (8/20µs) wire-wire	10 kA
Discharge current In (8/20µs) GND-PE	2.5 kA	Surge current-carrying capacity C2	5 kA 8/20 µs

Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)

Connection data

Type of connection	Pluggable in VSPC BASE

Electrical data

Voltage type	AC/DC

General data

Number of poles	1	Protection degree	IP20
Colour	orange		

Ratings IECEx/ATEX/cUL

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

Guarantee

Time interval	5 years

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Technical data

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.

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		

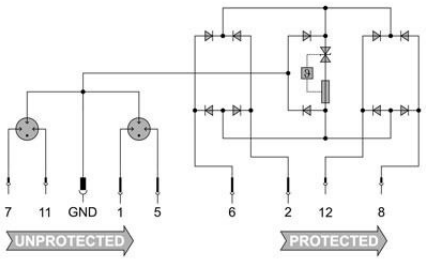
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Drawings

Electric symbol

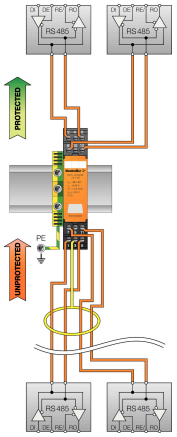


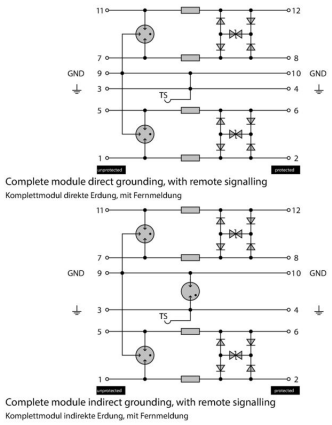
Circuit diagram

Category	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick-rising edge	0.5 - 2 kV with 1.2/50 µs	0.25 - 1 kA mit 8/20 µs	300	Surge voltage arrester
C2	Quick-rising edge	2 - 10 kV with 1.2/50 µs	1 - 5 kA mit 8/20 µs	10	Surge voltage arrester
C3	Quick-rising edge	≥ 1 kV with 1 kV/µs	10 - 100 A mit 10/10000 µs	300	Surge voltage arrester
D1	High power	≥ 1 kV	0.5 - 2.5 kA mit 10/350 µs	2	Arrester for lightning current and surge voltages

Discharge capacity







Komplettmodul

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