

## VSPC RS485 2CH

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

[www.weidmueller.com](http://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.	<a href="#">8924670000</a>
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 <sup>-9</sup> 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)
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## 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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## Technical data

### 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	10 V 1 kV/μs, typically
Protection level on output side Wire-PE	10 V 1kV/μs, typically	Protection level on output side Wire-wire	15 V 8/20 μs, typically
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, Iimp (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, Iimp (10/350 μs) GND-PE	0.2 kA
Pulse-reset capacity	≤ 20 ms	Signal transmission properties (-3 dB)	113.6 MHz
Lightning test current, Iimp (10/350 μs) Wire-PE	2 x 0.2 kA	Overload - failure mode	Modus 2
Discharge current I <sub>max</sub> (8/20μs) GND-PE	10 kA	Discharge current I <sub>n</sub> (8/20μs) wire-wire	2.5 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE2 x	10 kA	Discharge current I <sub>max</sub> (8/20μs) wire-wire	10 kA
Discharge current I <sub>n</sub> (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)
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### Connection data

Type of connection	Pluggable in VSPC BASE
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### Electrical data

Voltage type	AC/DC
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### General data

Number of poles	1	Protection degree	IP20
Colour	orange		

### Ratings IECEx/ATEX/cUL

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

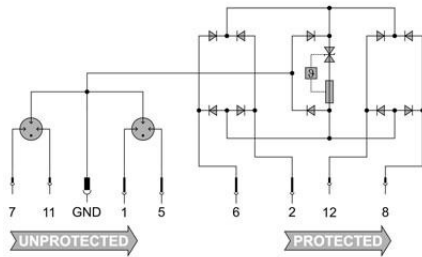
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Drawings

www.weidmueller.com

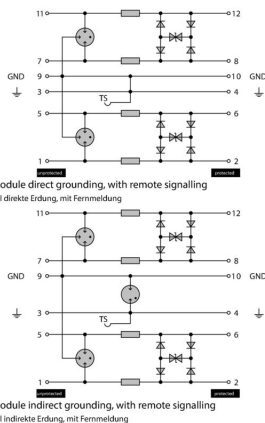
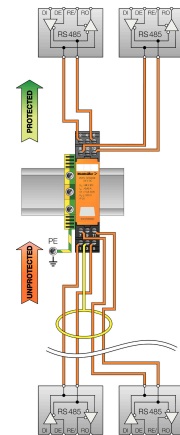
Electric symbol



Circuit diagram

Cate- gory	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 mit 10/350 µs	0.5 - 2.5 kA 2	Arrester for lightning current and surge voltages

Discharge capacity



Komplettmodul