

VSPC
VSPC RS485 2CH**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Data surge protection

- for RS 422 and RS 485 signals
- Can also be connected as T branch with K21 wall-mounted housing

General ordering data

Type	VSPC RS485 2CH
Order No.	8924670000
Version	Surge protection for instrumentation and control, 5 V, 5 V, 450 mA, IEC 61643-21
GTIN (EAN)	4032248696314
Qty.	1 pc(s).

VSPC
VSPC RS485 2CH
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Technical data
Dimensions and weights

Width	17.8 mm	Width (inches)	0.701 inch
Height	90 mm	Height (inches)	3.543 inch
Depth	69 mm	Depth (inches)	2.717 inch
Net weight	27.5 g		

Temperatures

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

Probability of failure

λges	57	MTTF	2,003 Years
PFH in 1*10 ⁻⁹ per hour	4.25	SFF	92.54 %
SIL in compliance with IEC 61508	3		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate
----------------------	---------	----------------	---------------------

CSA protection data

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

General data

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

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
--------------------	---	------------------------	-----

VSPC
VSPC RS485 2CH

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data
Rated data IEC / EN

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

Further details of approvals

GOST certificate GOST-Zertifikat

Connection data

Type of connection Pluggable in VSPC BASE

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-07
eClass 9.1	27-13-08-07		

Approvals

Approvals



ROHS

Conform

VSPC VSPC RS485 2CH

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Downloads

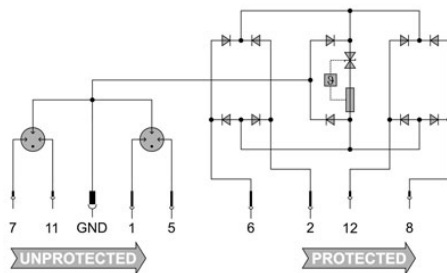
Approval/Certificate/Document of Conformity	SIL Paper CE PAPER Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

VSPC VSPC RS485 2CH

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

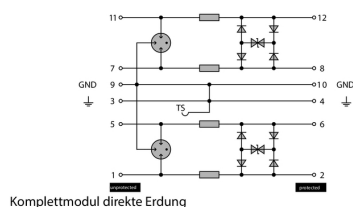
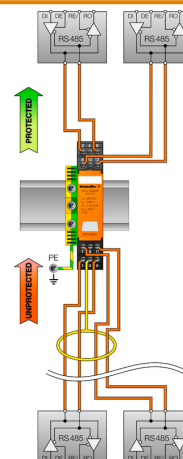
Electric symbol



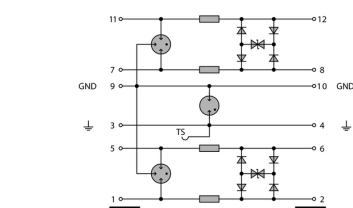
Circuit diagram

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

Discharge capacity



Komplettmodul direkte Erdung



Komplettmodul indirekte Erdung
Komplettmodul