

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.	<u>8924670000</u>
Туре	VSPC RS485 2CH
GTIN (EAN)	4032248696314
Qty.	1 items





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Technical data

Approvals	C E CSAEX	EFFICED (UL	
ROHS	Conform	LISTED	
UL File Number Search	<u>UL Website</u>		
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 °C80 °C	Ambient temperature	-40 °C70 °C
Operating temperature	-40 °C70 °C	Humidity	596 %
	40 070 0	Turnaty	JJU 70
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 Comp	liance		
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	Version	without warning function
oegillelit	- Setting	A @191011	function indicator
Design	Terminal, miscellaneous	UL 94 flammability rating	V-0
	orange	Protection degree	IP20
Colour	orange		
Colour Insulation coordination acc. to Surge voltage category		Pollution severity	2

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Technical data

Niveshau of males	1	Cianallina contact	N _a
Number of poles	1 5 V	Signalling contact	No 5 V
Rated voltage (AC)	450 mA	Rated voltage (DC)	
Rated current IN		Protection level on output side Wire-wire 1 kV/µs, typically	
Protection level on output side Wire-PE 1kV/µs, typically	10 V	Protection level on output side Wire-wire 8/20 µs, typically	e 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)	
Pulse-reset capacity	≤ 20 ms	Signal transmission properties (-3 dB)	113.6 MHz
Lightning test current, limp (10/350 μs) Wire-PE		Overload - failure mode	Modus 2
Discharge current Imax (8/20µs) GND- PE		Discharge current In (8/20µs) wire-wire	
Discharge current In (8/20µs) wire-PE	2.5 kA	Discharge current Imax (8/20µs) wire-Pl	
Discharge current Imax (8/20µs) wirewire	10 kA	Discharge current In (8/20μs) GND-PE	2.5 kA
Surge current-carrying capacity C2	5 kA 8/20 μs		
	GOST-Zertifikat -		
	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)		
GOST certificate	PDF/7950_n1-n4.pdf		
GOST certificate Connection data	PDF/7950_n1-n4.pdf		
GOST certificate Connection data Type of connection	PDF/7950_n1-n4.pdf (application/pdf)		
Further details of approvals GOST certificate Connection data Type of connection Electrical data Voltage type	PDF/7950_n1-n4.pdf (application/pdf)		
GOST certificate Connection data Type of connection Electrical data Voltage type	PDF/7950_n1-n4.pdf (application/pdf) Pluggable in VSPC BASE		
GOST certificate Connection data Type of connection Electrical data Voltage type General data	PDF/7950_n1-n4.pdf (application/pdf) Pluggable in VSPC BASE AC/DC	Duta tion disease	Ingo
GOST certificate Connection data Type of connection Electrical data Voltage type General data Number of poles	PDF/7950_n1-n4.pdf (application/pdf) Pluggable in VSPC BASE AC/DC	Protection degree	IP20
GOST certificate Connection data Type of connection Electrical data Voltage type General data Number of poles	PDF/7950_n1-n4.pdf (application/pdf) Pluggable in VSPC BASE AC/DC	Protection degree	IP20
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GOST certificate Connection data Type of connection Electrical data Voltage type General data Number of poles Colour Ratings IECEx/ATEX/cUL	PDF/7950_n1-n4.pdf (application/pdf) Pluggable in VSPC BASE AC/DC 1 orange cUL Certificate - pdf/ VSPC.PDF (application/	Protection degree	IP20

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Technical data

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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 7.0	EC000943	ETIM 8.0	EC000943
ETIM 9.0	EC000943	ETIM 10.0	EC000943
ECLASS 12.0	27-17-15-03	ECLASS 13.0	27-17-15-03
ECLASS 14.0	27-17-15-03	ECLASS 15.0	27-17-15-03

Tender specification sheets

Long specification

Surge protection plug for use in connection with the base element VSPC BASE 2CL for two floating-ground driven signal cables and ground, e.g. for bus systems. Twostage protection circuit consisting of coarse protection, decoupling resistors and fine protection between the signal wires and additional coarse common mode voltage protection to earth. Mechanical identification of the plug to the base element according to the switching type and rated voltage. Protected plug with coding pin and counter-profile for the base element. It is possible to mark the plug.

Short specification

Surge protection plug for base element VSPC BASE 2CL, transverse voltage coarse and fine protection for two floating-ground powered IT signal cables, coarse common mode voltage protection to earth.

Version: 5V DC



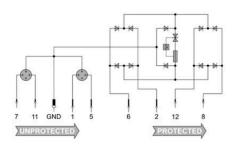
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Drawings

Electric symbol

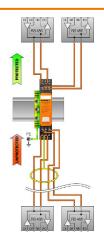


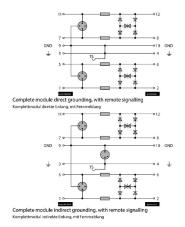
Circuit diagram

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

Discharge capacity







Komplettmodul



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Accessories

V-TEST testing device for VSPC



V-TEST

- Testing device for checking the protective function of the pluggable overvoltage protection PU I, PU II and VSPC series
- Device for implementing the IEC 62305 standard (regarding periodic testing)
- Easy-to-use device with integrated battery set for on-site measurements
- · LCD results display
- · Menu in two languages
- Including a protective bag and power supply
- User friendly navigation in German and English The V-TEST is a compact, portable test instrument for the plug-in surge protectors VARITECTOR (VSPC) and the surge protectors for the power supply line PU I and PU II. Using this instrument Weidmüller overvoltage protectors can be tested for their protective function in line with the testing schedules laid down in IEC 62305-3 (DIN VDE 0185 part 3). In a display with background illumination, the test result is indicated with "OK" or "Not OK".

General ordering data

Туре	V-TEST	Version
Order No.	<u>8951860000</u>	Lightning and surge protection, Testing device
GTIN (EAN)	4032248743100	
Qty.	1 ST	

Plus



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Туре	DEK 5/5 PLUS MC NE WS	Version
Order No.	<u>1854490000</u>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248393596	Weidmueller, white
Qty.	1000 ST	

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Accessories

Retaining clip





The interlock mechanism on the VSPC Series pluggable arrester delivers extra reliability and an improved permanent contact under strong vibrating conditions.

General ordering data

Type VSPC LOCKING CLIP Order No. 1317340000 GTIN (EAN) 4050118121179

Qty.

100 ST

Version

Fastening element, Latches

Direct earthing



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to the PE.

General ordering data

Туре VSPC BASE 2CL Order No. 8924710000 GTIN (EAN) 4032248696352

1 ST

Version

Surge protection, Flange-mounted housing, Flange-mounted housing

Indirect earthing / floating ground via sparkover gap, also suitable for EX ia applications



Base element for the pluggable VSPC arresters. Integrated PE foot in the base of the impedance-neutral VSPC BASE and floating earth PE connection (FG) via integrated sparkover gap, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 μ s) to PE. Suitable for unearthed signal circuits.

General ordering data

1 ST

Qty.

VSPC BASE 2CL FG Type Order No. 8924270000 Surge protection, Flange-mounted housing, Flange-mounted housing GTIN (EAN) 4032248695911

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Counterpart

Direct earthing



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to the PE.

General ordering data

Type VSPC BASE 2CL Version

Order No. 8924710000 Surge protection, Flange-mounted housing, Flange-mounted housing

GTIN (EAN) 4032248696352

Oty. 1 ST

Indirect earthing / floating ground via sparkover gap, also suitable for EX ia applications



Base element for the pluggable VSPC arresters. Integrated PE foot in the base of the impedance-neutral VSPC BASE and floating earth PE connection (FG) via integrated sparkover gap, safely discharges up to 20 kA (8/20 μs) and 2.5 kA (10/350 μs) to PE. Suitable for unearthed signal circuits.

General ordering data

Туре	VSPC BASE 2CL FG	Version
Order No.	<u>8924270000</u>	Surge protection, Flange-mounted housing, Flange-mounted housing
GTIN (EAN)	4032248695911	
Qty.	1 ST	

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