

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com









Binary signal (SL – Symmetrical Load) protection includes the following signals:

- Switching signals with and without a common reference potential e.g. 5 V - 24V - 60 V
- Two-conductor systems usually involve a common reference potential of binary sensors, actuators and indicators such as limit switches, buttons, position sensors, photoelectric barriers, contactors, solenoid valves, indicator lamps, etc.
- Pluggable arrester, for interruption-free and impedanceneutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Version with floating-earth PE connection used to avoid interference currents resulting from differences in potential
- For use in compliance with the IEC 62305 and IEC 61643-22 installation standards (D1, C1, C2 and C3)
- Integrated PE foot safely discharges up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to the PE
- Colour coding of the voltage levels for fast identification on the panel
- Safety function through coding elements for different voltage levels

General ordering data

Version	Surge protection for instrumentation and control, without warning function / function indicator, $U_P(L/N-PE) < 200 \text{ V}$
Order No.	<u>8924200000</u>
Туре	VSPC 4SL 5VDC
GTIN (EAN)	4032248695843
Qty.	1 pc(s).



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Technical data

D:		~~~	weights
DIIII	ensions	anu	weights

69 mm	Depth (inches)	2.717 inch
90 mm		3.543 inch
17.8 mm	Width (inches)	0.701 inch
47 g		
-40 °C80 °C	Operating temperature	-40 °C70 °C
	17.8 mm	90 mm Height (inches) 17.8 mm Width (inches)

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	2
MTTF	2,665 Years	SFF	79.3 %
λges	43	PFH in 1*10 ⁻⁹ per hour	8.9

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	4 nF	Internal inductance, max. L _l	0 μΗ	

General data

Colour	orange	Design	Terminal, miscellaneous
Optical function display	No	Protection degree	IP20
Segment	Measurement - Monitoring	UL 94 flammability rating	
	- Setting		V-0
Version	without warning function /	protected binary signals	
	function indicator		4

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III	



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Technical data

Rated data IEC / EN

Discharge current I_{max} (8/20µs) GND-	PE 10 kA	Discharge current I _{max} (8/20µs) wire-PE	10 kA
Discharge current I _{max} (8/20µs) wire-		Discharge current I _n (8/20µs) GND-PE	
wire	10 kA	<u> </u>	2.5 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA	Discharge current I _n (8/20µs) wire-wire	2.5 kA
Fuse		Lightning test current, I _{imp} (10/350 μs)	
	0.5 A	GND-PE	2.5 kA
Lightning test current, I_{imp} (10/350 μ	s)	Lightning test current, I _{imp} (10/350 μs)	
Wire-PE	2.5 kA	wire-wire	2.5 kA
Max. continuous voltage, Uc (DC)	6.4 V	Number of poles	2
Overload - failure mode	Modus 2	Protection level U _P (typ.)	< 200 V
Protection level on output side Wire-P	E	Protection level on output side Wire-wire	е
1kV/μs, typically	12 V	1 kV/μs, typically	25 V
Protection level on output side Wire-w		Protection level, U _P GND - PE	
8/20 µs, typically	25 V		450 V
Protection level, U _P wire - PE	10 V	Pulse-reset capacity	≤ 20 ms
Rated current I _N	300 mA	Rated voltage (DC)	5 V
Requirements category acc. to IEC		Signal transmission properties (-3 dB)	
61643-21	C1, C2, C3, D1	<u> </u>	1.2 MHz
Signalling contact	No	Standards	IEC 61643-21
Surge current-carrying capacity C1	< 1 kA 8/20 μs	Surge current-carrying capacity C2	5 kA 8/20 μs
Surge current-carrying capacity C3	100 A 10/1000 μs	Surge current-carrying capacity D1	2.5 kA 10/350 μs
Voltage type	DC	Volume resistance	4.7 Ω

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Pluggable in VSPC BASE	

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate	

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ECLASS 9.0	27-13-08-07
ECLASS 9.1	27-13-08-07	ECLASS 10.0	27-13-08-07
ECLASS 11.0	27-13-08-07		



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Technical data

Tender specification sheets

Long specification

Surge protection plug for use in connection with the base element VSPC BASE 4SL for four wires with a common ground. Twostage protection circuit in the plug consisting of coarse protection, decoupling resistors and fine protection between the signal wires and the signal ground/ ground/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. Optical identification of the protected plug based on the type of protected switching and the voltage level. It is possible to mark

Short specification

Surge protection plug for base element, coarse and fine common mode voltage protection for four wires with a common ground. Version: 5 V DC

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 shortcircuit.

Approvals

Approvals



the plug.





ROHS	Conform
UL File Number Search	E311081

Downloads

Approval/Certificate/Document of	SIL Paper
Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	



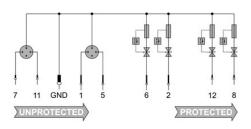
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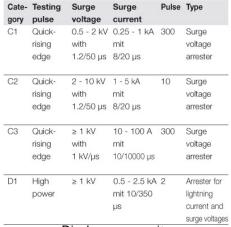
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Drawings

Electric symbol

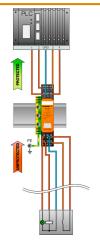


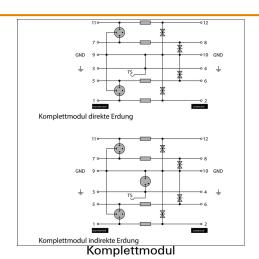
Circuit diagram



Discharge capacity









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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

Fastening element, Latches

GTIN (EAN) 4050118121179 Qty. 4050118121179

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 $\mu s)$ and 2.5 kA (10/350 $\mu s)$ to the PE.

General ordering data

Type VSPC BASE 4SL

Order No. 8924700000

4032248696345

Qty. 1 pc(s).

GTIN (EAN)

Version

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



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Accessorie<u>s</u>

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

ype DEK 5/5 PLUS MC NE WS Version

Order No. 1854490000 Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00

GTIN (EAN) 4032248393596 Weidmueller, white Qty. 1,000 pc(s).



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Accessories

V-TEST testing device: for the VSPC, PU I and PU II series



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 pc(s).	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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