

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 impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Version with floating-earth PE connection used to avoidinterference 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 V
Order No.	<u>8924200000</u>
Туре	VSPC 4SL 5VDC
GTIN (EAN)	4032248695843
Qty.	1 pc(s).



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Technical data

-			
Dım	ensions	and	weights

Dimensions and weights			
D	00	D 4 (1 L)	0.747: 1
Depth	69 mm	Depth (inches)	2.717 inch
Height	90 mm	Height (inches)	3.543 inch
Width	17.8 mm	Width (inches)	0.701 inch
Net weight	47 g		
Temperatures			
Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Humidity	596 %	operating temperature	
Probability of failure			
SIL in compliance with IEC 61508	2	MTTF	2,665 a
SFF	79.3 %	λges	43
PFH in 1*10 ⁻⁹ per hour	8.9		
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			
Number of poles	2	Dratastian dagras	IP20
Number of poles Colour	orange	Protection degree	IFZU
Insulation coordination acc.	to EN 50178		
Pollution severity	2	Surge voltage category	III
- Ollution Severity		Surge voltage category	""



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Technical data

Rated data IEC / EN

Discharge current I _{max} (8/20µs) GND-P	E 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			2.5 kA
Discharge current I _n (8/20µs) wire-PE	2.5 kA Discharge current I _n (8/20µs) wire-wire		2.5 kA
Fuse	0.5 A	Lightning test current, I _{imp} (10/350 μs) GND-PE	2.5 kA
Lightning test current, I _{imp} (10/350 μs)		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-PE 1kV/µs, typically	12 V	Protection level on output side Wire-wire 1 kV/µs, typically	e 25 V
Protection level on output side Wire-wir 8/20 µs, typically	e 25 V	Protection level, U _P GND - PE	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 61643-21	C1, C2, C3, D1	Signal transmission properties (-3 dB)	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-Zertifikat		
GOST certificate Connection data	GOST-Zertifikat		
GOST certificate	GOST-Zertifikat Pluggable in VSPC BASE		
GOST certificate Connection data			
GOST certificate Connection data Type of connection			
GOST certificate Connection data Type of connection Electrical data	Pluggable in VSPC BASE		
GOST certificate Connection data Type of connection Electrical data Voltage type Ratings IECEx/ATEX/cUL	Pluggable in VSPC BASE		
GOST certificate Connection data Type of connection Electrical data Voltage type	Pluggable in VSPC BASE		
GOST certificate Connection data Type of connection Electrical data Voltage type Ratings IECEx/ATEX/cUL cUL certificate	Pluggable in VSPC BASE		

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	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	ECLASS 12.0	27-17-90-90
ECLASS 13.0	27-17-90-90	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		



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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. Two-stage 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	Short specification	Surge protection plug for base element, coarse and fine common mode voltage protection for four wires with a common
to mark the plug.		ground. Version: 5 V DC

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

Important note

Product information	Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance with-
	in the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.

Approvals

Approvais	C E CSAEX CERTIFIED UL
Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319227/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319238/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319261/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E311081



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Downloads

Approval/Certificate/Document of Con-	<u>SIL Paper</u>
formity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	



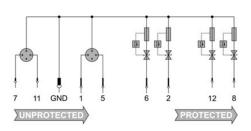
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Drawings

Electric symbol

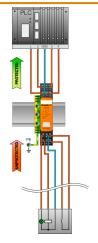


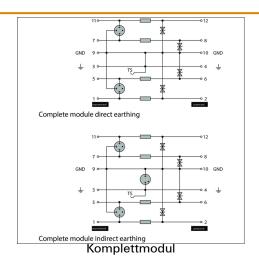
Circuit diagram

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Туре
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









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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

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

100 pc(s).

Fastening element, Latches

Plus

Qty.



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

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

Qty.

Туре 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

1,000 pc(s).



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Accessories

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 4SL
Order No. 8924700000
GTIN (EAN) 4032248696345

1 pc(s).

Qty.

Version

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

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

Type V-TEST
Order No. 8951860000
GTIN (EAN) 4032248743100
Qty. 1 pc(s).

Version

Lightning and surge protection, Testing device

Creation date May 11, 2025 11:11:05 PM CEST