

VSPC 2CL HF 5VDC R**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



- Monitoring function with status indicator and message function
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- High transmission rates with minimal attenuation values
- Space-saving design, with alert function and no extra space required
- Can be used in compliance with the IEC 62305 (**D1, C1 and C2**) installation standard
- Integrated PE foot, safely discharges up to 20 kA (8/20 μs) and 2.5 kA (10/350 μs) to PE
- Quick identification in the electrical cabinet with coloured labelling of the voltage levels
- Coding element for the different voltage levels provides safety

General ordering data

Version	Surge protection for instrumentation and control, 5 V, 450 mA, IEC 61643-21, HART-compatible
Order No.	8951680000
Type	VSPC 2CL HF 5VDC R
GTIN (EAN)	4032248742929
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Depth	69 mm	Depth (inches)	2.717 inch
Height	98 mm	Height (inches)	3.858 inch
Net weight	48 g	Width	17.8 mm
Width (inches)	0.701 inch		

Temperatures

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

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	2,537 Years	SFF	94.28 %
λges	45	PFH in 1*10 ⁻⁹ per hour	4.7

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate
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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	10 nF	Internal inductance, max. L _i	0 μH

General data

Colour	orange	Design	Terminal, miscellaneous
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	with warning function / function indicator	protected current loops	2

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 $I_{\max}$ (8/20 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
Fuse	0.5 A	Lightning test current, I_{imp} (10/350 μ s) GND-PE	2.5 kA
Lightning test current, I_{imp} (10/350 μ s) Wire-PE	2.5 kA	Lightning test current, I_{imp} (10/350 μ s) wire-wire	2.5 kA
Max. continuous voltage, U_c (DC)	6.4 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level U_p (typ.)	< 800 V
Protection level on output side Wire-PE 1 kV/ μ s, typically	450 V	Protection level on output side Wire-wire 1 kV/ μ s, typically	12 V
Protection level on output side Wire-wire 8/20 μ s, typically	12 V	Protection level, U_p GND - PE	800 V
Protection level, U_p wire - PE	450 V	Protection level, U_p wire - wire	12 V
Pulse-reset capacity	≤ 20 ms	Rated current I_N	450 mA
Rated voltage (DC)	5 V	Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
Signal transmission properties (-3 dB)	103 MHz	Signalling contact	U_N 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit
Standards	IEC 61643-21, HART-compatible	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	DC
Volume resistance	2.20 Ω		

Further details of approvals

GOST certificate	GOST-Zertifikat
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Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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Classifications

ETIM 6.0	EC000943	ETIM 7.0	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 2CL for two floating-ground driven paired cables, for IT use. Two-stage protection circuit consisting of coarse protection, decoupling resistors and fine protection between the signal wires and coarse common mode voltage protection to earth. Mechanical identification of the plug to the base element according to the switching type and rated voltage. With integrated status display and remote monitoring option. Optical identification of the protected plug based on the type of protected switching and the voltage level. 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 use in connection with the base element VSPC BASE 2CL for two floating-ground driven paired cables, for IT use, 5 V DC and with integrated status display and remote monitoring option.

Approvals

Approvals



ROHS	Conform
UL File Number Search	E311081

Downloads

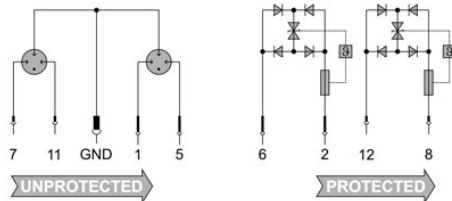
Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings
Electric symbol


Similar to illustration

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

