

**VSPC
VSPC BASE 2CL R**

Weidmüller Interface GmbH & Co. KG
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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 R
Order No.	8951710000
Version	Surge protection, Flange-mounted housing, 450 mA, IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006
GTIN (EAN)	4032248742950
Qty.	1 pc(s).

Creation date May 1, 2020 4:25:00 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Width	17.8 mm	Width (inches)	0.701 inch
Height	98 mm	Height (inches)	3.858 inch
Depth	69 mm	Depth (inches)	2.717 inch
Net weight	63.74 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		

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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Connection data, remote alert

Connection type	Screw connection	Max. torque	0.2 Nm
Stripping length	6 mm	Cross-section for connected wire, solid core, min.	0.5 mm ²
Cross-section for connected wire, solid core, max.	1.5 mm ²		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I _I	450 mA
Internal inductance, max. L _I	0 µH		

General data

Colour	black	Design	Terminal, miscellaneous
Optical function display	No	Protection degree	IP20
Rail	TS 35, TS 35 x 7.5	Segment	Measurement - Monitoring - Setting
UL 94 flammability rating	V-0	Version	Flange-mounted housing

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data**Rated data IEC / EN**

Voltage type		Standards	IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006
	AC/DC		
Rated current I_N	450 mA	Signalling contact	U_N 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 mm ²	Clamping range, max.	4 mm ²
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	4 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²	Connection cross-section, stranded, min.	0.5 mm ²
Connection cross-section, stranded, max.	2.5 mm ²	Blade size	0.6 x 3.5 mm

Classifications

ETIM 6.0	EC000472	ETIM 7.0	EC000472
eClass 9.0	27-13-08-03	eClass 9.1	27-13-08-07
eClass 10.0	27-13-08-03	UNSPSC	30-21-19-21

Approvals

Approvals



ROHS Conform

Downloads

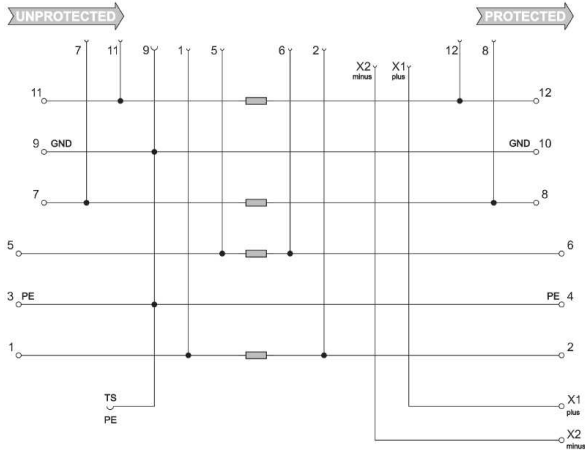
Approval/Certificate/Document of Conformity	CE PAPER Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

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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

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Mating connector (fully pluggable)
Surge protection for fast signals with alert contact


- 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 μ s) and 2.5 kA (10/350 μ s) 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

Type	VSPC 2CL HF 12VDC R	Version
Order No.	8951690000	Surge protection for instrumentation and control, 12 V, 450 mA, IEC
GTIN (EAN)	4032248742936	61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 2CL HF 5VDC R	Version
Order No.	8951680000	Surge protection for instrumentation and control, 5 V, 450 mA, IEC
GTIN (EAN)	4032248742929	61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 2CL HF 24VDC R	Version
Order No.	8951700000	Surge protection for instrumentation and control, 24 V, 450 mA, IEC
GTIN (EAN)	4032248742943	61643-21, HART-compatible
Qty.	1 pc(s).	

RS485 / RS422

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 R	Version
Order No.	8951670000	Surge protection for instrumentation and control, 5 V, 5 V, 450 mA,
GTIN (EAN)	4032248742912	IEC 61643-21
Qty.	1 pc(s).	

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Mating connector (fully pluggable)
Current loop with signal contact


Analogue signal/current loop (CL) protection includes the following signals:

- Signals from current loops (analogue measurements of sensors over long distances) 4 – 20 mA, 0 – 20 mA etc.
- Two-wire, three-wire and four-wire, without a common reference potential
- e.g. level indication signals from voltage sensors (analogue measurements of sensors over short distances) 0 – 10 V, PT 100 etc. ; e.g. temperature measurement
- Pluggable arrester, with 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 avoid differences in potential
- Can be used in compliance with the IEC 62305 (D1, C1, C2 and C3) installation standard
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) 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

Type	VSPC 2CL 5VDC R	Version
Order No.	8951460000	Surge protection for instrumentation and control, 5 V, 450 mA, IEC
GTIN (EAN)	4032248742509	61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 2CL 24VDC R	Version
Order No.	8951480000	Surge protection for instrumentation and control, 24 V, 450 mA, IEC
GTIN (EAN)	4032248742721	61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 2CL 24VAC R	Version
Order No.	1093400000	Surge protection for instrumentation and control, 24 V, 24 V, 450 mA,
GTIN (EAN)	4032248864317	IEC 61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 2CL 12VDC R	Version
Order No.	8951470000	Surge protection for instrumentation and control, 12 V, 450 mA, IEC
GTIN (EAN)	4032248742714	61643-21, HART-compatible
Qty.	1 pc(s).	

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Accessories

Supply and alert unit for VSPC R arresters



- Signalling module for all VSPCs with status indicator
- Signalling of cable breaks / signal interruptions
- Power supply of 20 to 31 V DC
- No-voltage changeover contact
- Function display with red/green LED
- Functional alerts with different signal types.

General ordering data

Type	VSPC CONTROL UNIT 24VDC	Version
Order No.	8972270000	Surge protection for instrumentation and control, 24 V, 50 mA, DIN
GTIN (EAN)	4032248793488	EN 50178
Qty.	1 pc(s).	

Cable tie tools



Cable tie tools are compact tools with which the cable tie is tightened and the excess tie cut off in one operation

General ordering data

Type	KABELBINDERZANGE RT-1	Version
Order No.	1296000000	Miscellaneous tools
GTIN (EAN)	4008190029944	
Qty.	1 pc(s).	

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Accessories

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

Type	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).		

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



General ordering data

Type	SDS 0.6X3.5X200	Version	
Order No.	9010110000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 200 mm, Blade thickness (A): 0.6 mm	
GTIN (EAN)	4032248300754		
Qty.	1 pc(s).		
Type	SDS 0.4X2.0X60	Version	
Order No.	9037160000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade thickness (A): 0.4 mm	
GTIN (EAN)	4032248171613		
Qty.	1 pc(s).		

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Accessories

EMC accessories for VSPC and VSSC series

Versatile accessories round off the surge protection range. E.g. the all-purpose measuring device V-TEST, which is used to check the function of pluggable arresters such as VSPC.



General ordering data

Type	EMC-CONTACT	Version
Order No.	1067520000	Surge protection, Surge protection
GTIN (EAN)	4032248821051	
Qty.	1 pc(s).	
Type	EMC-SET	Version
Order No.	1067470000	Surge protection, Surge protection
GTIN (EAN)	4032248821037	
Qty.	1 pc(s).	
Type	EMC-TIE	Version
Order No.	1067490000	Surge protection, Surge protection
GTIN (EAN)	4032248821044	
Qty.	1 pc(s).	

Earthing module



- Can be applied to unassigned wires
- Can be used during initial commissioning and maintenance
- All sensor cables connected to the VSPC are earthed.
- Can be plugged into all VSPC base sockets

General ordering data

Type	VSPC GROUND	Version
Order No.	8924680000	Adapter, 500 mA
GTIN (EAN)	4032248696321	
Qty.	1 pc(s).	