

**VSPC**  
**VSPC BASE 1CL R****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



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 1CL R
Order No.	<a href="#">8951730000</a>
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)	4032248742974
Qty.	1 pc(s).

Creation date May 1, 2020 4:24:31 AM CEST

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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	68 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 <sup>2</sup>
Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>		

**CSA protection data**

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I <sub>I</sub>	450 mA
Internal inductance, max. L <sub>I</sub>	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 <sup>2</sup>	Clamping range, max.	4 mm <sup>2</sup>
Wire cross-section, solid, min.	0.5 mm <sup>2</sup>	Wire cross-section, solid, max.	4 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm <sup>2</sup>	Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	2.5 mm <sup>2</sup>	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**

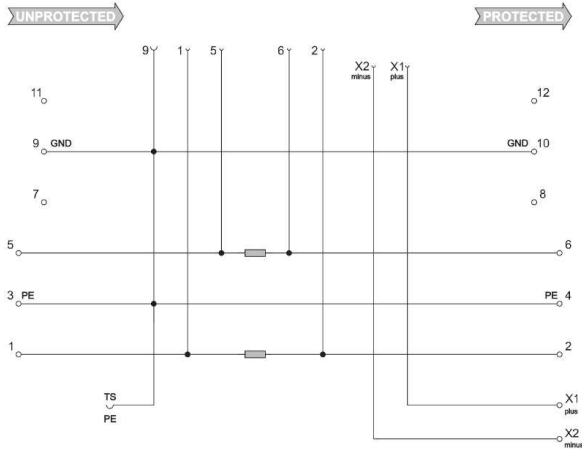
Approval/Certificate/Document of Conformity	<a href="#">CE PAPER</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet</a>

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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)**
**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  $\mu$ s) and 2.5 kA (10/350  $\mu$ 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**

Type	VSPC 1CL 24VDC R	Version
Order No.	<a href="#">8951550000</a>	Surge protection for instrumentation and control, 24 V, 450 mA, IEC
GTIN (EAN)	4032248742790	61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 1CL 12VDC R	Version
Order No.	<a href="#">8951540000</a>	Surge protection for instrumentation and control, 12 V, 450 mA, IEC
GTIN (EAN)	4032248742783	61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 1CL 24VAC R	Version
Order No.	<a href="#">8951560000</a>	Surge protection for instrumentation and control, 24 V, 34 V, 450 mA,
GTIN (EAN)	4032248742806	IEC 61643-21, HART-compatible
Qty.	1 pc(s).	
Type	VSPC 1CL 5VDC R	Version
Order No.	<a href="#">8951530000</a>	Surge protection for instrumentation and control, 5 V, 450 mA, IEC
GTIN (EAN)	4032248742776	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.	<a href="#">8972270000</a>	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.	<a href="#">1296000000</a>	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.	<a href="#">1854490000</a>	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.	<a href="#">9010110000</a>	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.	<a href="#">9037160000</a>	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.	<a href="#">1067520000</a>	Surge protection, Surge protection
GTIN (EAN)	4032248821051	
Qty.	1 pc(s).	
Type	EMC-SET	Version
Order No.	<a href="#">1067470000</a>	Surge protection, Surge protection
GTIN (EAN)	4032248821037	
Qty.	1 pc(s).	
Type	EMC-TIE	Version
Order No.	<a href="#">1067490000</a>	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.	<a href="#">8924680000</a>	Adapter, 500 mA
GTIN (EAN)	4032248696321	
Qty.	1 pc(s).	