

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Base element for the pluggable VSPC arresters. Integrated PE foot in the base of the impedance-neutral VSPC BASE and floating earth PE connection (FG) via integrated sparkover gap, safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE. Suitable for unearthed signal circuits.

**General ordering data**

Version	Surge protection, Flange-mounted housing, Flange-mounted housing
Order No.	<a href="#">8951740000</a>
Type	VSPC BASE 1CL FG R
GTIN (EAN)	403224874298 1
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (UL)	E311081

**Dimensions and weights**

Depth	69 mm	Depth (inches)	2.7165 inch
Height	98 mm	Height (inches)	3.8583 inch
Width	17.8 mm	Width (inches)	0.7008 inch
Net weight	70 g		

**Temperatures**

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

**Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	5047b468-d57a-4a1c-8363-2ff1629067e4

**Rated data UL**

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate - PDF/ E311081VOL1SEC2.pdf (application/pdf)
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**Connection data, remote alert**

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

**CSA protection data**

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. II	450 mA	Gas group C	IIB
Internal inductance, max. LI	0 µH		

**General data**

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

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## Technical data

## Insulation coordination acc. to EN 50178

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

Leakage current at $U_n$	0 $\mu$ A	Signalling contact	UN 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit
Rated current $I_N$	450 mA	Voltage type	AC/DC
Standards	IEC 61643-2-1, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006	Dielectric strength at FG against PE	$\geq 500$ V

## Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)
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## Connection data

Stripping length	7 mm	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		

## Electrical data

Voltage type	AC/DC
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## General data

Protection degree	IP20	Colour	black
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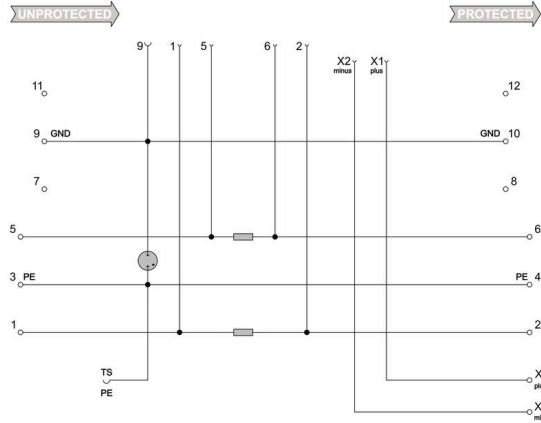
## Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/ VSPC.PDF (application/ pdf)
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## Classifications

ETIM 8.0	EC000472	ETIM 9.0	EC000472
ETIM 10.0	EC000472	ECLASS 14.0	27-17-15-91
ECLASS 15.0	27-17-15-91		

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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## 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, with warning function / function indicator	
GTIN (EAN)	4032248793488		
Qty.	1 ST		

### 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, without warning function / function indicator	
GTIN (EAN)	4032248696321		
Qty.	1 ST		

### 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, Screwdriver	
GTIN (EAN)	4032248300754		
Qty.	1 ST		

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## Accessories

Type	SDS 0.4X2.0X60	Version	
Order No.	<a href="#">9037160000</a>	Screwdriver, Screwdriver	
GTIN (EAN)	4032248171613		
Qty.	1 ST		

## 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.

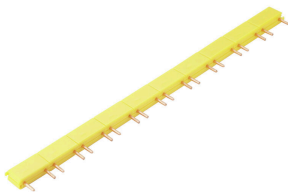
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- 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.	1000 ST		

## Cross-connections



Cross-connection between the VSPC signal contacts can be installed quickly. Cross-connections can be individually separated for the alert function with maximum 10 VSPC R.

## General ordering data

Type	QB 17,8/2	Version	
Order No.	<a href="#">1309470000</a>		
GTIN (EAN)	4050118111934		
Qty.	90 ST		