

VSPC BASE 1CL FG EX

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 μ s) and 2.5 kA (10/350 μ s) to PE. Suitable for unearthened signal circuits.

General ordering data

Version	Surge protection, Flange-mounted housing, Flange-mounted housing
Order No.	8951810000
Type	VSPC BASE 1CL FG EX
GTIN (EAN)	4032248743056
Qty.	1 pc(s).

Creation date May 27, 2022 8:00:08 AM CEST

Catalogue status 20.05.2022 / We reserve the right to make technical changes.

VSPC BASE 1CL FG EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

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	71 g		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Protection Ex - Data

ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
Certificate No. (ATEX)	KEMA10ATEX0148X	IECEx - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da
IECEx - gas labelling	II 1 G Ex ia IIC T4... T6 Ga	Internal inductance, max. L_I	0 μ H

Rated data UL

UL certificate	UL 497b Certificate
----------------	---------------------

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_I	250 mA
Internal capacity, max. C_I	0 nF	Internal inductance, max. L_I	0 μ H

General data

Colour	Light Blue	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
--------------------	---	------------------------	-----

Rated data IEC / EN

Dielectric strength at FG against PE	≥ 500 V	Leakage current at U_n	0 μ A
Rated current I_N	450 mA	Signalling contact	No
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	Voltage type	AC/DC

Creation date May 27, 2022 8:00:08 AM CEST

Catalogue status 20.05.2022 / We reserve the right to make technical changes.

2

VSPC BASE 1CL FG EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Further details of approvals

GOST certificate GOST-Zertifikat

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 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		

Ratings IECEx/ATEX/cUL

ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
ATEX certificate	ATEX Certificate	Certificate No. (ATEX)	KEMA10ATEX0148X
IEC Ex certificate	IECEX Zertifikat	IECEx - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da
IECEx - gas labelling	II 1 G Ex ia IIC T4... T6 Ga	cUL certificate	cUL Certificate

Classifications

ETIM 6.0	EC000472	ETIM 7.0	EC000472
ETIM 8.0	EC000472	ECLASS 9.0	27-13-08-03
ECLASS 9.1	27-13-08-07	ECLASS 10.0	27-13-08-03
ECLASS 11.0	27-13-08-03	ECLASS 12.0	27-17-15-91

VSPC BASE 1CL FG EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Tender specification sheets

Long specification	Base element for a single floating-ground powered paired cable. With the installation of the base element a contact is established between mounting rail and the integrated sparkover gap. Through this sparkover gap, a high impedance connection between the ground of the protective switch in the protective plug and the earth potential is made. Mechanical coding of the base element to the protected plug according to switching type and rated voltage. Suitable for ATEX applications. The base unit is coded itself by the first insertion of a protected plug. Mechanical coding of the base element to the protected plug according to switching type and rated voltage. The base unit is coded itself by the first insertion of a protected plug. Possible to mark all terminals	Short specification
		Base element to receive a protected plug for one floating-ground powered paired cable, integrated sparkover gap for high impedance connection between the ground of the plug's protective circuit and the earth potential. Suitable for ATEX applications.

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	SIL Paper EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

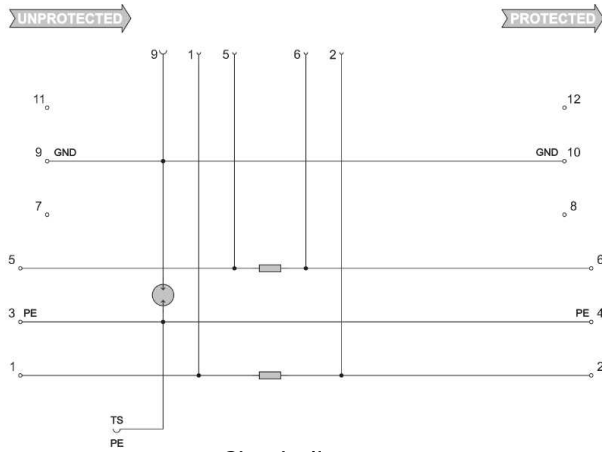
VSPC BASE 1CL FG EX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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