

**VSPC GDT 2CH 150VAC/230VDC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



- Pluggable arrester with ungrounded varistors (MOV) for use as protection circuit for coils
- For applications as surge protection, external wire links to GND must be connected at the VSPC BASE FG (e.g. connection 8-10 and 9-5)
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Integrated PE foot in the VSPC BASE, safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE

**General ordering data**

Version	Surge protection for instrumentation and control, without warning function / function indicator, $U_p(L/N-PE) < 1000$ V
Order No.	<a href="#">8924590000</a>
Type	VSPC GDT 2CH 150VAC/230VDC
GTIN (EAN)	4032248696239
Qty.	1 pc(s).

Creation date March 3, 2023 5:09:01 PM CET

Catalogue status 18.02.2023 / We reserve the right to make technical changes.

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## 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	40 g		

### Temperatures

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

### Probability of failure

SIL in compliance with IEC 61508	3	MTTF	10,378 Years
SFF	100 %	λges	11
PFH in 1*10 <sup>-9</sup> per hour	0		

### 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 <sub>i</sub>	600 V
Internal capacity, max. C <sub>i</sub>	0 nF	Internal inductance, max. L <sub>i</sub>	0 μH

### General data

Colour	orange	Design	Terminal, miscellaneous
Optical function display	No	Protection degree	IP20
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	without warning function / function indicator		

### Insulation coordination acc. to EN 50178

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

Capacitance	7.45 pF	Discharge current $I_{max}$ (8/20 $\mu$ s) GND-PE	10 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire	2 x 10 kA	Discharge current $I_n$ (8/20 $\mu$ s) GND-PE	2.5 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-wire	2 x 2.5 kA
Fuse	2 A	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) GND-PE	0.2 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) wire-wire	2 x 0.2 kA	Max. continuous voltage, $U_c$ (AC)	125 V
Max. continuous voltage, $U_c$ (DC)	180 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level $U_p$ (typ.)	< 1000 V
Protection level on output side Wire-PE		Protection level on output side Wire-wire	
1kV/ $\mu$ s, typically	800 V	1 kV/ $\mu$ s, typically	450 V
Protection level on output side Wire-wire		Protection level, $U_p$ wire - PE	800 V
8/20 $\mu$ s, typically	800 V	Rated current $I_N$	2 A
Protection level, $U_p$ wire - wire	800 V	Rated voltage (DC)	150 V
Rated voltage (AC)	110 V	Signalling contact	No
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Surge current-carrying capacity C1	< 1 kA 8/20 $\mu$ s
Standards	According to IEC61643-21	Surge current-carrying capacity C3	100 A 10/1000 $\mu$ s
Surge current-carrying capacity C2	5 kA 8/20 $\mu$ s	Voltage type	AC/DC
Surge current-carrying capacity D1	2.5 kA 10/350 $\mu$ s		
Volume resistance	0.20 $\Omega$		

**Further details of approvals**

GOST certificate GOST-Zertifikat

**Connection data**

Type of connection Pluggable in VSPC BASE

**Ratings IECEx/ATEX/cUL**

cUL certificate cUL Certificate

**Classifications**

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	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	ECLASS 12.0	27-17-90-90

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**Technical data****Tender specification sheets**

Long specification	Short specification
<p>Surge protection plug for base element VSPC BASE 2/4CH, coarse common mode voltage protection for two paired cables. Version: 150 V AC Single-stage protective circuitry in plug, consisting of coarse protection between the signal wires and the signal ground/ground/earth. Mechanical identification of the plug to the base element according to the switching type and rated voltage. Protected plug with coding pin and counter-profile for the base element. Optical identification of the protected plug based on the type of protected switching and the voltage level. It is possible to mark the plug.</p>	<p>Surge protection plug for base element VSPC BASE 2/4CH, coarse common mode voltage protection for two paired cables. Version: 150 V AC</p>

**Important note**

Product information	Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.
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**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E31 1081

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

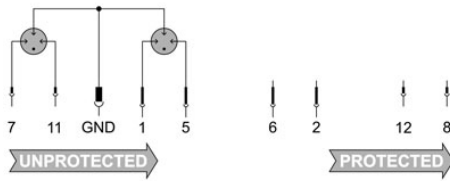
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**Drawings**

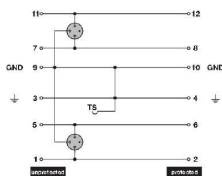
**Electric symbol**



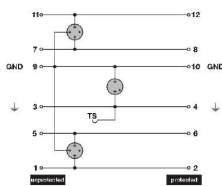
Similar to illustration

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick- rising edge	0.5 - 2 kV 1.2/50 µs	0.25 - 1 kA mit 8/20 µs	300	Surge voltage arrester
C2	Quick- rising edge	2 - 10 kV 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



Komplettmodul direkte Erdung



Komplettmodul indirekte Erdung

**Komplettmodul**