

**VSPC TELE UKO 2WIRE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The following signals are protected by the  $U_{KO}$  :

- Two-wire input interface (telephone cabling) –  $U_{KO}$
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Low residual voltage
- Can be tested with the V-TEST testing device
- Integrated PE foot, 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, $U_p(L/N-PE) < 800$ V
Order No.	<a href="#">8924660000</a>
Type	VSPC TELE UKO 2WIRE
GTIN (EAN)	4032248696307
Qty.	1 pc(s).

Creation date March 1, 2023 2:36:23 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	46 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	2,330 Years
SFF	93.98 %	λges	49
PFH in 1*10 <sup>-9</sup> per hour	2.95		

**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>	180 V
Internal capacity, max. C <sub>i</sub>	10 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

Discharge current $I_{max}$ (8/20 $\mu$ s) GND-PE	10 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	2 x 10 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire	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	2.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) GND-PE	0.2 kA	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) Wire-PE	2 x 0.2 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) wire-wire	0.2 kA	Max. continuous voltage, $U_c$ (AC)	130 V
Max. continuous voltage, $U_c$ (DC)	180 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level $U_p$ (typ.)	< 800 V
Protection level on output side Wire-PE 1kV/ $\mu$ s, typically	450 V	Protection level on output side Wire-wire 1 kV/ $\mu$ s, typically	250 V
Protection level on output side Wire-wire 8/20 $\mu$ s, typically	300 V	Protection level, $U_p$ GND - PE	650 V
Protection level, $U_p$ wire - PE	450 V	Protection level, $U_p$ wire - wire	250 V
Pulse-reset capacity	$\leq$ 60 ms	Rated current $I_N$	450 mA
Rated voltage (AC)	127 V	Rated voltage (DC)	120 V
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Signal transmission properties (-3 dB)	101.7 MHz
Signalling contact	No	Standards	According to IEC61643-21
Surge current-carrying capacity C1	< 1 kA 8/20 $\mu$ s	Surge current-carrying capacity C2	5 kA 8/20 $\mu$ s
Surge current-carrying capacity C3	100 A 10/1000 $\mu$ s	Surge current-carrying capacity D1	2.5 kA 10/350 $\mu$ s
Voltage type	AC	Volume resistance	2.20 $\Omega$

### 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	Surge protection plug for base element VSPC BASE 2/4 CH, transverse voltage coarse and fine protection for four wire telecommunication interfaces (Uko/So) with coarse common mode voltage protection to earth. Two-stage protection circuit in the plug consisting of coarse protection, decoupling resistors and fine 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.	Short specification
		Surge protection plug for base element VSPC BASE 2/4 CH, transverse voltage coarse and fine protection for four wire telecommunication interfaces (Uko/So) with coarse common mode voltage protection to earth.

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

### 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)	E311081

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**Technical data****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	

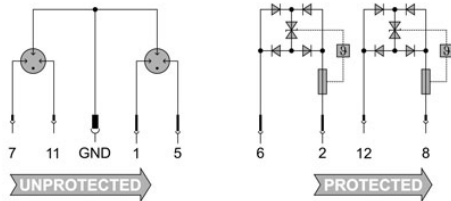
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**Drawings**

**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 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

