

VSPC TELE UK0 2WIRE**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



The following signals are protected by the U_{K0} :

- Two-wire input interface (telephone cabling) – U_{K0}
- 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 μ s) and 2.5 kA (10/350 μ s) to PE

General ordering data

Order No.	8924660000
Type	VSPC TELE UK0 2WIRE
Version	Surge protection for instrumentation and control, without warning function / function indicator
GTIN (EAN)	4032248696307
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	17.8 mm	Height	90 mm
Depth	69 mm	Net weight	46 g

Temperatures

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

Probability of failure

λ_{ges}	49	MTTF	2,330 Years
PFH in $1 \cdot 10^{-9}$ per hour	2.95	SFF	93.98 %
SIL in compliance with IEC 61508	3		

General data

Colour	Arrester red	Optical function display	No
Protection degree	IP 20	Segment	Instrumentation and Control
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Interference voltage

Protection level on output side Wire-wire 1 kV/ μ s, typically	250 V	Protection level on output side Wire-wire 8/20 μ s, typically	300 V
Protection level on output side Wire-PE 1kV/ μ s, typically	450 V	Protection level on output side Wire-PE 8/20 μ s, typically	800 V

Protection level

Protection level, U_p GND - PE	650 V	Protection level, U_p wire - PE	450 V
Protection level, U_p wire - wire	250 V		

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Technical data

technical data

Rated voltage (AC)	127 V	Rated voltage (DC)	120 V
Rated current	450 mA	Rated voltage (DC), max.	185 V
Max. continuous voltage, U_c (AC)	130 V	Max. continuous voltage, U_c (DC)	180 V
Highest continuous voltage (AC)	185 V	Discharge current I_n (8/20 μ s) wire-wire	2.5 kA
Discharge current I_{max} (8/20 μ s) wire-wire	10 kA	Discharge current I_n (8/20 μ s) wire-PE	2.5 kA
Discharge current I_n (8/20 μ s) GND-PE	2.5 kA	Discharge current I_{max} (8/20 μ s) GND-PE	10 kA
Discharge current I_{max} (8/20 μ s) wire-PE	2 x 10 kA	Protection level U_p (typ.)	< 800 V
Protection level on output side Wire-wire		Protection level on output side Wire-PE	
8/20 μ s, typically	300 V	8/20 μ s, typically	800 V
Signalling contact	No	Standards	According to IEC61643-21
Colour	Arrester red	Humidity	5...96 %
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Lightning test current I_{imp} (10/350 μ s)	2.5 kA
Lightning test current I_{imp} (10/350 μ s) [L-PE]	2.5 kA	Volume resistance	2.20 Ω
Residual voltage, U_p typical	800 V	Dielectric strength at FG against PE	≥ 500 V
Overload - failure mode	Modus 2		

Further details of approvals

GOST certificate	GOST-Zertifikat
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Rated data UL

Certificate No. (UL)	E311081VOL1SEC2	UL certificate	UL 497b Certificate
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Classifications

ETIM 3.0	EC000943	UNSPSC	30-21-19-21
eClass 4.1	27-13-08-01	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-02

Approvals

Approvals



ROHS	Conform
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Probability of failure

SIL PAPER	SIL Paper
3-D model	

Downloads

Package insert	Instruction sheet
Declaration of Conformity	K327_12_09.pdf
EPLAN	8924660000.ema
Selection matrix	Preference selection VSPC
3-D model	

Creation date May 7, 2013 4:12:07 PM CEST

VSPC TELE UK0 2WIRE
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Klingenbergstraße 16

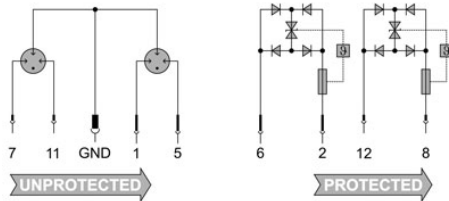
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Drawings
Electric symbol


Similar to illustration

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick- rising edge	0.5 - 2 kV 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)

Direct earthing



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8924710000	VSPC BASE 2CL	Surge protection for instrumentation and control	4032248696352	1 pc(s).

Indirect earthing / floating ground via sparkover gap, also suitable for EX ia applications



Base element for the pluggable VSPC arresters. Integrated PE foot in impedance-neutral VSPC BASE and floating-earth PE connection (FG) via a built-in **sparkover gap**. Can safely discharge up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE. Suitable for unearthed signal circuits.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8924270000	VSPC BASE 2CL FG	Surge protection for instrumentation and control	4032248695911	1 pc(s).