

Lightning and surge protection VSPC 4SL 24VDC R

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Binary signal (SL – Symmetrical Load) protection includes the following signals:

- Switching signals with and without a common reference potential , e.g. 5 V...24 V...60 V
- Two-conductor systems usually involve a common reference potential of binary sensors, actuators and indicators such as limit switches, buttons, position sensors, photoelectric barriers, contactors, solenoid valves, indicator lamps, etc.
- Pluggable arrester, for interruption-free and impedance-neutral plug-in and pull-out
- Can be tested with V-TEST testing device
- Space-saving design for up to 4 binary signals
- Version with floating-earth PE connection used to avoid interference currents that result from differences in voltage potential
- For use in compliance with the IEC 62305 and IEC 61643-22 installation standards (D1, C1, C2 and C3)
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE
- Colour coding of the voltage levels for fast identification in the cabinet
- Safety function through coding elements for different voltage levels

General ordering data

Type	VSPC 4SL 24VDC R
Order No.	8951590000
Version	Lightning and surge protection, Surge protection for instrumentation and control, 24 V, 300 mA, IEC 61643-21
GTIN (EAN)	4032248742837
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	17.8 mm	Height	98 mm
Depth	69 mm	Net weight	32.7 g

Temperatures

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

Probability of failure

λ_{ges}	43	MTTF	2,665 Years
PFH in $1 \cdot 10^{-9}$ per hour	10.7	SFF	86.02 %
SIL in compliance with IEC 61508	2		

PA53 IProtection level

Protection level, U_p GND - PE	450 V	Protection level, U_p wire - PE	38 V
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CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. U_i	28 V
Internal capacity, max. C_i	4 nF	Internal inductance, max. L_i	0 μ H

General data

Colour	Arrester red	Optical function display	green = OK; red = arrester is defective - replace
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 U_p (typ.)	< 60 V	Protection level on output side Wire-PE 1kV/ μ s, typically	40 V
Protection level on output side Wire-wire 1 kV/ μ s, typically	80 V	Protection level on output side Wire-wire 8/20 μ s, typically	80 V
Protection level, U_p GND - PE	450 V		

Protective elements

Optical function display	green = OK; red = arrester is defective - replace
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Technical data

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Discharge current I_{max} (8/20 μ s) GND-PE	10 kA	Discharge current I_{max} (8/20 μ s) wire-PE	10 kA
Discharge current I_{max} (8/20 μ s) wire-wire	10 kA	Discharge current I_n (8/20 μ s) GND-PE	2.5 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA	Discharge current I_n (8/20 μ s) wire-wire	2.5 kA
Fuse, max.	0.5 A	Humidity	5...96 %
Lightning test current I_{imp} (10/350 μ s) [L-PE]	2.5 kA	Lightning test current I_{imp} (10/350 μ s)	2.5 kA
Lightning test current I_{imp} (10/350 μ s) [N-PE]	2.5 kA	Lightning test current, I_{imp} (10/350 μ s) GND-PE	2.5 kA
Lightning test current, I_{imp} (10/350 μ s) Wire-PE	2.5 kA	Lightning test current, I_{imp} (10/350 μ s) wire-wire	2.5 kA
Max. continuous voltage, U_c (DC)	28 V	Overload - failure mode	Modus 2
Protection level U_p (typ.)	< 60 V	Protection level on output side Wire-wire 8/20 μ s, typically	80 V
Pulse-reset capacity	30 ms	Rated current I_N	300 mA
Rated voltage (DC)	24 V	Rated voltage (DC), max.	28 V
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Signal transmission properties (-3 dB)	4 MHz
Signalling contact	U_N 250 V AC 0.1 A 1CO at VSPC R with VSPC CONTROL UNIT	Standards	IEC 61643-21
Surge current-carrying capacity C1	< 1 kA 8/20 μ s	Surge current-carrying capacity C2	5 kA 8/20 μ s
Surge current-carrying capacity C3	100 A 10/1000 μ s	Surge current-carrying capacity D1	2.5 kA 10/350 μ s
Voltage type	DC	Volume resistance	4.7 Ω

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Pluggable in VSPC BASE
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Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate
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Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000381	ETIM 6.0	EC000381
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-02
eClass 8.1	27-13-08-02	eClass 9.0	27-13-08-02

Product information

Descriptive text technical data	The associated VSPC base element should be ordered with this. The dimension information provided refers to the complete module.
Descriptive text accessories	EMC Set: 1067470000 Marker: DEK 5

Creation date April 9, 2015 3:33:29 PM CEST

Catalogue status 06.03.2015 / We reserve the right to make technical changes.

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Data sheet

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Technical data

Approvals

Approvals



ROHS Conform

Probability of failure

SIL PAPER [SIL Paper](#)
[3-D model](#)

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Package insert [Instruction sheet](#)
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 Declaration of Conformity [CE document](#)
 EPLAN [8951590000.ema](#)
 Selection matrix [Preference selection VSPC](#)
[3-D model](#)

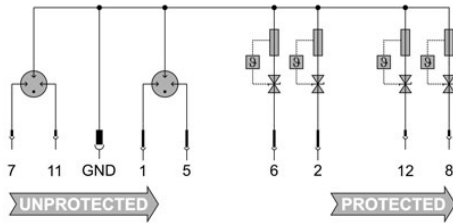
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Drawings

Electric symbol



Circuit diagram

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



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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

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 4SL R	8951750000	Lightning and surge protection, Surge protection for instrumentation and control, 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	4032248742998	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 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 µs) and 2.5 kA (10/350 µs) to PE. Suitable for unearthed signal circuits.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 4SL FG R	8951760000	Lightning and surge protection, Surge protection for instrumentation and control, 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	4032248743001	1 pc(s).

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Accessories
V-TEST testing device: for the VSPC, PU I and PU II series
V-TEST

- Testing device for checking the protective function of the pluggable overvoltage protection PU I, PU II and VSPC series
- Device for implementing the IEC 62305 standard (regarding periodic testing)
- Easy-to-use device with integrated battery set for on-site measurements
- LCD results display
- Menu in two languages
- Including a protective bag and power supply
- User friendly navigation in German and English

The V-TEST is a compact, portable test instrument for the plug-in surge protectors VARITECTOR (VSPC) and the surge protectors for the power supply line PU I and PU II. Using this instrument Weidmüller overvoltage protectors can be tested for their protective function in line with the testing schedules laid down in IEC 62305-3 (DIN VDE 0185 part 3). In a display with background illumination, the test result is indicated with "OK" or "Not OK".

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
V-TEST	8951860000	Lightning and surge protection	4032248743100	1 pc(s).

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

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 4SL R	8951750000	Lightning and surge protection, Surge protection for instrumentation and control, IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN	4032248742998	1 pc(s).

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Accessories

60079-26:2007, DIN EN
 61241-11:2006

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	Order No.	Version	GTIN (EAN)	Qty.
VSPC CONTROL UNIT 24VDC	8972270000	Lightning and surge protection, Surge protection for instrumentation and control, 24 V, 50 mA, DIN EN 50178	4032248793488	1 pc(s).

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
- Connector markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 PLUS MC NE WS	1854490000	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, White	4032248393596	1,000 pc(s).

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Accessories

Retaining clip



The interlock mechanism on the VSPC Series pluggable arrester delivers extra reliability and an improved permanent contact under strong vibrating conditions.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC	1317340000	Lightning and surge protection, Surge protection for instrumentation and control	4050118121179	100 pc(s).
LOCKING CLIP				

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