

## Lightning and surge protection VSPC 2SL 24VAC

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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  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) 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 2SL 24VAC
Order No.	<a href="#">8924350000</a>
Version	Lightning and surge protection, Surge protection for instrumentation and control, 24 V, 34 V, 300 mA, IEC 61643-21
GTIN (EAN)	4032248695997
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	41 g

### Temperatures

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

### Probability of failure

$\lambda_{ges}$	43	MTTF	2,665 Years
PFH in $1 \cdot 10^{-9}$ per hour	8.9	SFF	79.3 %
SIL in compliance with IEC 61508	2		

### PA53 IProtection level

Protection level, $U_p$ GND - PE	450 V	Protection level, $U_p$ wire - PE	40 V
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### CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. $U_i$	39 V
Internal capacity, max. $C_i$	2 nF	Internal inductance, max. $L_i$	0 $\mu$ H

### 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 $U_p$ (typ.)	< 60 V	Protection level on output side Wire-PE	1kV/ $\mu$ s, typically	60 V
Protection level on output side Wire-wire	110 V	Protection level on output side Wire-wire	8/20 $\mu$ s, typically	80 V
1 kV/ $\mu$ s, typically				
Protection level, $U_p$ GND - PE	450 V			

### Protective elements

Optical function display	No
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## Technical data

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Capacitance	2.0 nF	Discharge current $I_{max}$ (8/20 $\mu$ s) GND-PE	10 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	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	Fuse, max.	0.5 A
Humidity	5...96 %	Lightning test current $I_{imp}$ (10/350 $\mu$ s) [L-PE]	2.5 kA
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	2.5 kA	Lightning test current $I_{imp}$ (10/350 $\mu$ s) [N-PE]	2.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) GND-PE	2.5 kA	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) Wire-PE	2.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) wire-wire	2.5 kA	Max. continuous voltage, $U_c$ (AC)	28 V
Max. continuous voltage, $U_c$ (DC)	39 V	Overload - failure mode	Modus 2
Protection level $U_p$ (typ.)	< 60 V	Protection level on output side Wire-wire 8/20 $\mu$ s, typically	80 V
Pulse-reset capacity	60 ms	Rated current $I_N$	300 mA
Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Rated voltage (DC), max.	39 V	Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
Signal transmission properties (-3 dB)	5.5 MHz	Standards	IEC 61643-21
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	4.7 $\Omega$

### Further details of approvals

GOST certificate GOST-Zertifikat

### Connection data

Type of connection Pluggable in VSPC BASE

### Rated data UL

Certificate No. (UL) E311081 UL certificate UL 497b Certificate

### Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

### 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 3:10:55 PM CEST

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

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**Data sheet**

**Lightning and surge protection  
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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Probability of failure**

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

**Downloads**

Package insert [Instruction sheet](#)  
 SIL PAPER [SIL Paper](#)  
 Declaration of Conformity [CE document](#)  
 EPLAN [8924350000.ema](#)  
 Selection matrix [Preference selection VSPC](#)  
[3-D model](#)

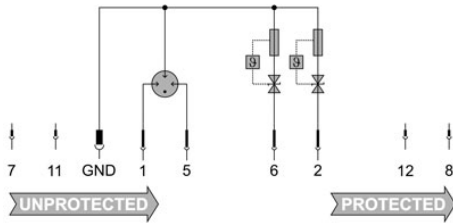
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**Drawings**

**Electric symbol**



Circuit diagram

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

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 2SL	<a href="#">8924720000</a>	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	4032248696369	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 2SL FG	<a href="#">8924280000</a>	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	4032248695928	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	<a href="#">8951860000</a>	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 2SL	<a href="#">8924720000</a>	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	4032248696369	1 pc(s).

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# Accessories

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

### 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	<a href="#">1854490000</a>	Dekafix, Terminal marker,	4032248393596	1,000 pc(s).
MC NE WS		5 x 5 mm, Pitch in mm (P):		
		5.00 Weidmueller, White		

### 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	<a href="#">1317340000</a>	Lightning and surge	4050118121179	100 pc(s).
LOCKING CLIP		protection, Surge protection		
		for instrumentation and		
		control		



# Addresses worldwide


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