

## VSPC BASE 2/4CH FG

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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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  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to the PE. Suitable for unearthed signal circuits.

### General ordering data

Type	VSPC BASE 2/4CH FG
Order No.	<a href="#">8924300000</a>
Version	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
GTIN (EAN)	4032248695942
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	74 g

### Temperatures

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

### General data

Colour	Black	Mounting rail	TS 35, TS 35 x 7.5
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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### technical data

Standards	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	Colour	Black
Humidity	5...96 %	Dielectric strength at FG against PE	≥ 500 V

### Connection data

Clamping range, rated connection, min.	0.5 mm <sup>2</sup>	Clamping range, rated connection, max.	4 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, min.	0.5 mm <sup>2</sup>	Wire connection cross section, stranded, rated connection, max.	2.5 mm <sup>2</sup>
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Stripping length, rated connection	7 mm	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>

### Further details of approvals

GOST certificate	GOST-Zertifikat
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### Rated data UL

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

ETIM 3.0	EC000943	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		

### Product information

Descriptive text ordering data	Technical data can be found at the end of the VARITECTOR SPC section. Order with VSPC CONTROL UNIT.
Descriptive text accessories	EMC Set: 1067470000 Marker: DEK 5

Creation date October 13, 2013 9:15:03 PM CEST

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**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**

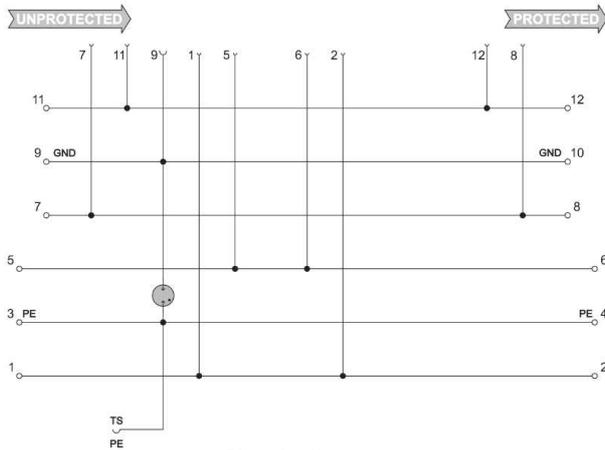
Package insert	<a href="#">Instruction sheet VSPC</a>
Declaration of Conformity	<a href="#">K316_07_09.pdf</a>
EPLAN	<a href="#">8924300000.ema</a>
Selection matrix	<a href="#">Preference selection VSPC</a>
<a href="#">3-D model</a>	

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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)

### Surge protection with components, without alert contact



- Optional monitoring function with status display and alert function for MOV components
- Pluggable arrester with components, such as sparkover gaps (GDT), varistors (MOV) and suppressor diodes (TAZ)
- 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, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC GDT 2CH 90V	<a href="#">8924570000</a>	Surge protection for instrumentation and control, 48 V, 68 V, 2 A, According to IEC61643-21	4032248696215	1 pc(s).
VSPC MOV 2CH 230V	<a href="#">8924610000</a>	Surge protection for instrumentation and control, 230 V, 230 V, 10 A, IEC 61643-21	4032248696253	1 pc(s).
VSPC GDT 2CH 150Vac/230Vdc	<a href="#">8924590000</a>	Surge protection for instrumentation and control, 110 V, 150 V, 2 A, According to IEC61643-21	4032248696239	1 pc(s).
VSPC TAZ 4CH 24V	<a href="#">8924650000</a>	Surge protection for instrumentation and control, 24 V, 24 V, 10 A, According to IEC61643-21	4032248696291	1 pc(s).
VSPC TAZ 2CH 24V	<a href="#">8924640000</a>	Surge protection for instrumentation and control, 24 V, 24 V, 10 A, According to IEC61643-21	4032248696284	1 pc(s).
VSPC MOV 2CH 24V	<a href="#">8924600000</a>	Surge protection for instrumentation and control, 24 V, 24 V, 10 A, IEC 61643-21	4032248696246	1 pc(s).

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## Mating connector (fully pluggable)

### Three-wire and four-wire measuring bridges



Under the protection of the 3 or 4 wire system come the following signals:

- PT100, measuring bridges, DMS sensors, measuring bridges,
- Pluggable arrester, for non-interrupting and impedance neutral plugging in/pulling out
- Can be tested with the V-TEST testing device
- Space-saving design for 4 binary signals
- Version with floating-earth PE connection used to avoid interference currents that result from differences in voltage potential
- Can be used in compliance with the IEC 62305 and IEC 61643-22 (**D1, C1, C2 and C3**) installation standards
- Integrated PE foot, safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- Quick identification in the electrical cabinet with coloured labelling of the voltage levels
- Coding element for the different voltage levels provides safety

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC 3/4WIRE 5VDC	<a href="#">8924540000</a>	Surge protection for instrumentation and control, 3 V, 450 mA, IEC 61643-21	4032248696185	1 pc(s).
VSPC 3/4WIRE 24VDC	<a href="#">8924550000</a>	Surge protection for instrumentation and control, 24 V, 450 mA, IEC 61643-21	4032248696192	1 pc(s).