

## Lightning and surge protection VSSC6TRCLFG24VAC/DC EX

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Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrial and process automation as well as in building automation applications.

### General ordering data

Type	VSSC6TRCLFG24VAC/DC EX
Order No.	<a href="#">1066490000</a>
Version	Surge protection for instrumentation and control, 24 V, 34 V, 300 mA, IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
GTIN (EAN)	4032248820122
Qty.	5 pc(s).

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### Technical data

#### Dimensions and weights

Width	12.2 mm	Width (inches)	0.48 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	60.6 g		

#### Temperatures

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

#### Probability of failure

λges	29	MTTF	3,936 years
PFH in 1*10 <sup>-9</sup> per hour	1.95	SFF	93.28 %
SIL in compliance with IEC 61508	3		

#### EX protection data

Input power, max. P <sub>I</sub>	0.75 W	Internal capacity, max. C <sub>I</sub>	2 nF
Internal inductance, max. L <sub>I</sub>	0 μH	Temperature class T4/135°C (-40°C ... +120 °C) li	300 mA
Temperature class T5/100°C (-40 °C ... +85 °C) li	300 mA	Temperature class T6/85 °C (-40 °C ... +70 °C) li	300 mA

#### CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I <sub>I</sub>	300 mA
Input voltage, max. U <sub>I</sub>	42 V	Internal capacity, max. C <sub>I</sub>	1 nF
Internal inductance, max. L <sub>I</sub>	0 μH		

#### General data

Colour	Light Blue	Isolating function	Yes
Mounting rail	TS 35	Optical function display	No
Protection degree	IP 20	Segment	Instrumentation and Control
Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5	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 <sub>P</sub> (typ.)	≤ 1870 V	Protection level on output side Wire-PE 1kV/μs, typically	900 V
Protection level on output side Wire-wire 1 kV/μs, typically	70 V		

#### Protection level

Protection level, U <sub>P</sub> wire - PE	900 V	Protection level, U <sub>P</sub> wire - wire	90 V
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**Technical data****Protective elements**

Optical function display	No
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**Technical data**

Dielectric strength at FG against PE	≥ 500 V	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	5 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire	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	Discharge current, max. (8/20 $\mu$ s)	10 kA
Humidity	5...96 %	Input voltage, max. $U_i$	42 V
Insertion loss	250 MHz	Lightning test current $I_{imp}$ (10/350 $\mu$ s)	0.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) Wire-PE	0.5 kA	Max. continuous voltage, $U_c$ (AC)	30 V
Max. continuous voltage, $U_c$ (DC)	42 V	Overload - failure mode	Modus 2
Protection level $U_p$ (typ.)	≤ 1870 V	Pulse-reset capacity	≤ 20 ms
Rated current $I_N$	300 mA	Rated voltage (AC)	24 V
Rated voltage (DC)	34 V	Requirements category acc. to IEC 61643-21	C2, C3, D1
Signal transmission properties (-3 dB)	270 Mhz	Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
Surge current-carrying capacity C2	2.5 kA 8/20 $\mu$ s 5 kV 1.2/50 $\mu$ s	Surge current-carrying capacity C3	50 A 10/1000 $\mu$ s
Surge current-carrying capacity D1	0.5 kA 10/350 $\mu$ s	Voltage type	DC
Volume resistance	1.8 $\Omega$ 10 %		

**Further details of approvals**

GOST certificate	GOST-Zertifikat
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**Connection data**

Type of connection	Screw connection, Torx <sup>®</sup> T15, Slotted 0.8 x 4	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.8 Nm	Clamping range, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, max.	4 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	6 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), 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.	4 mm <sup>2</sup>		

**Ratings IECEx/ATEX/cUL**

ATEX certificate	ATEX Certificate	IEC Ex certificate	IECEX Zertifikat
cUL certificate	cUL Certificate		

**Classifications**

ETIM 3.0	EC000943	ETIM 4.0	EC000943
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-14-02-01	eClass 7.1	27-13-08-05
eClass 8.1	27-13-08-05	eClass 9.0	27-13-08-05

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**Data sheet**

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**Technical data**

**Product information**

Descriptive text ordering data	End plate AP VSSC LB 1067230000
Descriptive text technical data	ATEX approval: II 1 G EX ia IIC T4...T6 Ga II 1 D EX ia IIIC T135°C...T85°C DEKRA No: 11ATEX0023 X
Descriptive text accessories	Screwdriver: Torx® 9009170000 Slot 0.8x4.0 9008340000 Test plug PS2.3 0180400000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 176826; SNAPMARK 1805880000

**Approvals**

Approvals	      
ROHS	Conform

**Probability of failure**

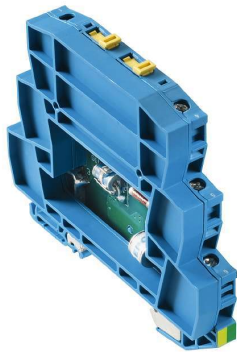
SIL PAPER	<a href="#">SIL Paper</a>
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**Downloads**

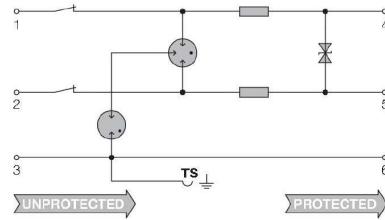
Package insert	<a href="#">Instruction sheet VSSC</a>
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**Drawings**

Similar to illustration



Circuit diagram

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