



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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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 industrical and process automation as well as in building automation applications.

## **General ordering data**

Version	Surge protection for instrumentation and control,
	Surge protection for measurement and control,
	UP(L/N-PE) ≤ 2000 V
Order No.	<u>1063810000</u>
Туре	VSSC4 CL FG 24VAC/DC EX
GTIN (EAN)	4032248829255
Qty.	1 ST





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# **Technical data**

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Approvals



ROHS Conform

## **Dimensions and weights**

Depth	58.5 mm	Depth (inches)	2.3031 inch
Height	76 mm	Height (inches)	2.9921 inch
Width	12.4 mm	Width (inches)	0.4882 inch
Net weight	39.8 g	<del></del>	

#### **Temperatures**

Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Humidity	596 %		

## **Probability of failure**

SIL in compliance with IEC 61508	3	MTTF	3936 a
SFF	93.28 %	λges	29
PFH in 1*10-9 per hour	1.95		

## **Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

### **Protection Ex - Data**

ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4 T6 Ga
IECEx - dust labelling	II 1 D Ex ia IIIC T135 °C T85 °C Da	IECEx - gas labelling	II 1 G Ex ia IIC T4 T6 Ga
Input power, max. PI	0.75 W	Input voltage, max. Ui	42 V
Internal capacity, max. Cl	1 nF	Internal inductance, max. LI	0 μΗ
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 D	IIA	Gas groups A, B	IIC	
Input current, max. II	300 mA	Gas group C	IIB	
Internal inductance, max. LI	0 μΗ	Internal capacity, max. CI	1 nF	
Input voltage, max. Ui	42 V			

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# Technical data

General data			
Optical function display	No	Segment	Measurement - Monitoring - Setting
Version	Surge protection for measurement and control	Design	Terminal
UL 94 flammability rating	V-0	Colour	Light Blue
Protection degree	IP20	Rail	TS 35
Isolating function	No		
Insulation coordination acc. to	o EN 50178		
Surge voltage category	III	Pollution severity	2
Rated data IEC / EN			
Number of poles	1	Rated voltage (AC)	24 V
Rated voltage (DC)	34 V	Rated current IN	300 mA
Protection level UP (typ.)	≤ 2000 V	Voltage type	AC/DC
Volume resistance	1.8 Ω 10 %	Standards	IEC61643-21:2009, DIN EN 60079-0.2009, DIN EI 60079-26:2007, DIN EN 61241-11:2006, HART- compatible
Lightning test current limp (10/350 μs)	0.5 kA	Discharge current, max. (8/20 µs)	10 kA
Dielectric strength at FG against PE	≥ 500 V	Requirements category acc. to IEC 61643-21	C2, C3, D1
Insertion loss	3.45 MHz	Max. continuous voltage, Uc (AC)	30 V
Max. continuous voltage, Uc (DC)	42 V	Surge current-carrying capacity D1	0.5 kA 10/350 μs
Surge current-carrying capacity C3	50 A 10/1000 μs	Pulse-reset capacity	≤ 15 ms
Signal transmission properties (-3 dB)	3.4 MHz	Lightning test current, limp (10/350 µs Wire-PE	i) 0.5 kA
Overload - failure mode	Modus 2	Discharge current In (8/20µs) wire-wire	e 2.5 kA
Discharge current In (8/20µs) wire-PE	2.5 kA	Discharge current Imax (8/20µs) wire-F	PE5 kA
Discharge current Imax (8/20µs) wirewire	5 kA	Input voltage, max. Ui	42 V
Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV 1.2/50 µs		
Further details of approvals			
COST	GOST-Zertifikat -		
GOST certificate	PDF/7950_n1-n4.pdf (application/pdf)		
Connection data			
Stripping length	10 mm	Type of connection	Screw connection
Tightening torque, min.	0.5 Nm	Type of connection Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 Mm <sup>2</sup>		4 mm <sup>2</sup>
Wire cross-section, solid, min.	0.5 mm <sup>2</sup>	Clamping range, max. Wire cross-section, solid, max.	4 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>
Connection cross-section, stranded, mir	n. 0.5 mm²	Connection cross-section, stranded, max.	4 mm²
Electrical data			
	10/20		
Voltage type	AC/DC		

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# Technical data

General data			
Number of poles	1	Protection degree	IP20
Colour	Light Blue		
Ratings IECEx/ATEX/c	UL		
ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4 T6 Ga
ATEX certificate	ATEX Certificate	IEC Ex certificate	IECEX Zertifikat
IECEx - dust labelling	II 1 D Ex ia IIIC T135 °C T85 °C Da	IECEx - gas labelling	II 1 G Ex ia IIC T4 T6 Ga
cUL certificate	cUL Certificate - pdf/ VSSC.PDF (application/ pdf)		
Important note			'
Product information			s short-circuited due to a very low easuring equipment is still protected
Classifications			
ETIM 7.0	EC000943	ETIM 8.0	EC000943
ETIM 9.0	EC000943	ETIM 10.0	EC000943
ECLASS 12.0	27-17-15-02	ECLASS 13.0	27-17-15-02
ECLASS 14.0	27-17-15-02	ECLASS 15.0	27-17-15-02
Tender specification sl	neets		
Long specification	Surge protection in a one piece, 12.4 mm wide terminal rail module for an intrinsically safe, floating-ground signal circuit with 24 VDC in 2-wire technology. A current loop (Ex ia) with max. 0.3 A can be protected here. When the terminal is fitted, a sparkover gap is simultaneously created to the high-impedance earth between the terminal rail (earth) and the reference potential (ground) of the protective circuit. Visual identification of the terminal according to the type of protective circuit and the voltage level. The terminal can	Short specification	Surge protection in a one piece, 12.4 mm wide terminal rail module for a intrinsically safe, floating-ground signal circuit in 2-wire technology. Version: 24 VDC Suitable for ATE) applications

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be labelled. Suitable for ATEX applications. Tested according to explosion protection types in EX areas: Ex ia IIC / Ex iaD.

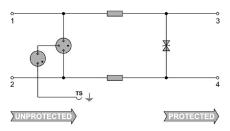


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# **Drawings**



Circuit diagram





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## **Accessories**

#### Accessories (end plates)



End plates (AP) for the VSSC product series in light blue and black

#### **General ordering data**

Туре	AP VSSC4 LB	Version
Order No.	<u>1067240000</u>	VSSC, End plate
GTIN (EAN)	4032248999873	
Qty.	50 ST	

#### **Blank**



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
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### **General ordering data**

Туре	DEK 5/5 MC NE WS	Version
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1000 ST	

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