

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		
Order No.	<u>1064310000</u>		
Туре	VSSC6TRCLFG24VAC/DC0.5A		
GTIN (EAN)	4032248829675		
Qty.	10 items		





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Technical data

Approvals

Approvals	C E CSAEX CENTRE OVE	UL LISTED

ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UL)	E311081

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.4842 inch
Width	6.2 mm	Width (inches)	0.2441 inch
Net weight	44 g		

Temperatures

Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70	
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

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf)
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CSA protection data

Gas group D	IIA	Gas groups A, B	IIC	
Input-current, max. II	500 mA	Gas group C	IIB	
Internal inductance, max. LI	0 μΗ	Internal capacity, max. CI	1 nF	
Input voltage, max. Ui	42 V			

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	black
Protection degree	IP20	Mounting rail	TS 35

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Technical data

Isolating function	Yes	Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5
Insulation coordination acc. to	EN 50178		
Surge voltage category	III	Pollution severity	2
Rated data IEC / EN			
Novel on of males	1	Data daraka na (AC)	24 V
Number of poles	1 34 V	Rated voltage (AC) Rated current IN	500 mA
Rated voltage (DC) Protection level on output side Wire-wire 1 kV/µs, typically		Voltage type	AC/DC
Fuse protection	0.5 A	Volume resistance	1.8 Ω 10 %
Standards	IEC 61643-21, 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	250 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	≤ 20 ms	Signal transmission properties (-3 dB)	270 Mhz
Lightning test current, limp (10/350 μ s) Wire-PE	0.5 kA	Overload - failure mode	Modus 2
Rated load current IL	500 mA	Protection level UP for C1 with 500V/250A (wire-wire)	63 V
Discharge current In (8/20µs) wire-wire	2.5 kA	Discharge current In (8/20µs) wire-PE	2.5 kA
Discharge current Imax (8/20µs) wire-Pl	=5 kA	Discharge current Imax (8/20µs) wirewire	5 kA
Protection level UP for C3 with 1kV/µs (wire-wire)	54 V	Protection level UP for D1 with 0.5kA (wire-wire)	84 V
Protection level UP for C3 with 1kV/μs (wire-PE)	1060 V	Protection level UP for C2 with 10kV/5kA (wire-wire)	114 V
Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs	Protection level UP for C1 with 500V/250A (wire-PE)	496 V
Protection level UP for C2 with 10kV/5kA (wire-PE)	1980 V		

Further details of approvals

GOST certificate

GOST-Zertifikat PDF/7950_n1-n4.pdf
(application/pdf)

Connection data

Stripping length	10 mm	Type of connection	Screw connection
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 mm ²	Clamping range, max.	4 mm ²
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	6 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²
Connection cross-section, stranded, min. 0.5 mm ²		Connection cross-section, stranded, max.	4 mm²

Electrical data

oltage type AC/DC







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Technical data

Technical dat	ta					
General data						
	<u> </u>	<u>'</u>				
Number of poles	1	Protection degree	IP20			
Colour	black					
Ratings IECEx/ATEX/c	UL					
cUL certificate	cUL Certificate - pdf/ VSSC.PDF (application/ pdf)	VSSC.PDF (application/				
Important note						
	<u>'</u>					
Product information		Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.				
Classifications						
ETIM 8.0	EC000943	ETIM 9.0	EC000943			
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-01			
ECLASS 15.0	27-17-15-01					
Tender specification s	heets					
Long specification	Surge protection in a one	Short specification	Surge protection in a one			
Long opcomoduon	piece, 6.2 mm wide DIN rail module for a floating-	2	piece, 6.2 mm wide DIN rail module for a floating-			

Long specification	Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground driven signal circuit with 24 V UC, 2-wire technology. Each signal path can be opened using an isolator. A current loop with max. 0.5 A can be protected here. When the terminal is fitted, there is a simultaneous sparkover gap created to the high-impedance earth between the mounting rail (earth) and the reference potential (ground) of the protective switch. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.	Short specification	Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground driven signal circuit with 2-wire technology and a potential-free earth cable. Version: 24V UC



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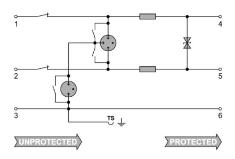
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Drawings



Similar to illustration



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

Type AP VSSC6
Order No. 10631100
GTIN (EAN) 40322483

1063110000 4032248947553

Qty. 50 ST

Version VSSC, End plate

Testadapter and testsockets









Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

Type PS 2.3 RT
Order No. 0180400000
GTIN (EAN) 4008190060121

Version

Test adapter (terminal), 230 V, 20 mA

Qty. 20 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.

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Accessories

General ordering data

Туре DEK 5/5 MC NE WS Order No. 1609801044 GTIN (EAN)

4008190397111 1000 ST

Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00

Weidmueller, white

SnapMark

Qty.



SnapMark - this tag carrier has been developed especifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows crossconnections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

General ordering data

SNAPMARK I Туре 1805880000 Order No. GTIN (EAN) 4032248273614

50 ST

Qty.

Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00

Weidmueller, white