

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com







General ordering data





Surge protection for instrumentation and control,

Surge protection for measurement and control,







Version

 $U_P(L/N-PE) \le 1870 \text{ V}$ 1066490000 Order No. VSSC6TRCLFG24VAC/DC EX Type GTIN (EAN) 4032248820122 Qty. 1 pc(s).

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.



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Technical data

-			
Dim	ensions	and	weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Width	12.4 mm	Width (inches)	0.488 inch
Net weight	60.6 g		

Temperatures

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

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	3,936 Jahre	SFF	93.28 %
λges	29	PFH in 1*10 ⁻⁹ per hour	1.95

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

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. P _I	0.75 W	Input voltage, max. U _i	42 V
Internal capacity, max. C _I	2 nF	Internal inductance, max. L _l	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 C	IIB	Gas group D	IIA	
Gas groups A, B	IIC	Input current, max. I _I	300 mA	
Input voltage, max. U _i	42 V	Internal capacity, max. C _I	1 nF	
Internal inductance, max. L _I	0 uH			

General data

Colour	Light Blue	Design	Terminal
Isolating function	Yes	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment	Measurement - Monitoring - Setting	Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5
UL 94 flammability rating	V-0	Version	Surge protection for measurement and control

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III	



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Rated data IEC / EN

Dielectric strength at FG against PE	electric strength at FG against PE ≥ 500 V Discharge current I _{max} (8/20µs) wire-PE 5 kA		
Discharge current I _{max} (8/20µs) wire-		Discharge current I _n (8/20µs) wire-PE	
wire	5 kA		2.5 kA
Discharge current I _n (8/20µs) wire-wire	2.5 kA	Discharge current, max. (8/20 μs)	10 kA
Input voltage, max. U _i	42 V	Insertion loss	250 MHz
Lightning test current I _{imp} (10/350 μs)		Lightning test current, I _{imp} (10/350 μs)	
	0.5 kA	Wire-PE	0.5 kA
Max. continuous voltage, Uc (AC)	30 V	Max. continuous voltage, Uc (DC)	42 V
Number of poles	1	Overload - failure mode	Modus 2
Protection level U _P (typ.)	_	Protection level on output side Wire-wire	
	≤ 1870 V	1 kV/μs, typically	70 V
Protection level, U _P wire - wire	90 V	Pulse-reset capacity	≤ 20 ms
Rated current I _N	300 mA	Rated voltage (AC)	24 V
Rated voltage (DC)		Requirements category acc. to IEC	
	34 V	61643-21	C2, C3, D1
Signal transmission properties (-3 dB)		Standards	IEC61643-21:2009, DIN
			EN 60079-0.2009, DIN EN
			60079-26:2007, DIN EN
	270 Mhz		61241-11:2006, HART-
			compatible
Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV	Surge current-carrying capacity C3	FO A 10 (1000
-	1.2/50 µs		50 A 10/1000 μs
Surge current-carrying capacity D1	0.5 kA 10/350 μs	Voltage type	DC
Volume resistance	1.8 Ω 10 %		

Further details of approvals

GOST certificate GOST-Zertifikat

Connection data

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.		Conductor cross-section, flexible, AEH		
	6 mm ²	(DIN 46228-1), min.	0.5 mm ²	
Conductor cross-section, flexible, AEH		Connection cross-section, stranded, min.		
(DIN 46228-1), max.	4 mm ²		0.5 mm ²	
Connection cross-section, stranded,				
max.	4 mm ²			

Ratings IECEx/ATEX/cUL

ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C	ATEX - gas labelling	
	T85 °C Da		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	IECEx - gas labelling	
_	T85 °C Da		II 1 G Ex ia IIC T4 T6 Ga
cUL certificate	cUL Certificate		

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ECLASS 9.0	27-13-08-07
ECLASS 9.1	27-13-08-07	ECLASS 10.0	27-13-08-07
ECLASS 11.0	27-13-08-07		

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Technical data

Tender specification sheets

Long specification

Short specification

Surge protection in a one piece, 12.4 mm wide terminal rail module for an intrinsically safe, floating-ground driven signal circuit with 2-wire technology and a common wire. Each signal path can be opened using an isolator. Version: 48 VUC

Important note

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.

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of	SIL Paper
Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	



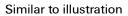
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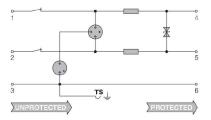
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Drawings







Circuit diagram



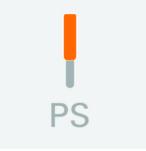
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Accessories

Test plugs



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
Oty. 20 pc(s).

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Accessories, Test plug

Accessories (end plates)



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

General ordering data

Type AP VSSC6 LB
Order No. 1067230000
GTIN (EAN) 4032248999866
Oty. 50 pc(s).

Version VSSC, End plate



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Accessories

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

DEK 5/5 MC NE WS Version Order No. 1609801044

4008190397111 Weidmueller, white

GTIN (EAN) 1,000 pc(s). Qty.

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

SnapMark



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

Туре SNAPMARK I Version Order No. 1805880000 Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00 GTIN (EAN) 4032248273614 Weidmueller, white

50 pc(s). Qty.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>Weidmuller</u>: 1066490000