

## VSSC4 GDT 24VAC/DC 20KA

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Surge protection with individual components  
 With gas discharge tubes in terminal design  
 Gas discharge tubes/spark gaps (GDT) are used in the terminal design. They are approved for a maximum DC voltage, which is printed on the component. Any voltage greater than the specified value is safely discharged in approx. 10-100  $\mu$ s. Gas discharge tubes are used for higher power ratings. Any voltage greater than that specified is safely discharged in approx. 10-100 $\mu$ s. Gas discharge tubes are used for higher power ratings.

### General ordering data

Version	Surge protection for instrumentation and control, Surge protection for measurement and control
Order No.	<a href="#">1064030000</a>
Type	VSSC4 GDT 24VAC/DC 20KA
GTIN (EAN)	4032248829446
Qty.	5 items

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

Depth	58.5 mm	Depth (inches)	2.3031 inch
Height	76 mm	Height (inches)	2.9921 inch
Width	6.2 mm	Width (inches)	0.2441 inch
Net weight	37.8 g		

## Temperatures

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

## Probability of failure

SIL in compliance with IEC 61508	3	MTTF	11416 a
SFF	100 %	λges	10
PFH in 1*10 <sup>-9</sup> per hour	0		

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. II	20 A	Gas group C	IIB
Internal inductance, max. LI	0 μH	Internal capacity, max. CI	0 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
Isolating function	No		

## Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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## Rated data IEC / EN

Number of poles	1	Rated voltage (AC)	24 V
Rated voltage (DC)	34 V	Rated current IN	20 A

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### Technical data

Voltage type	AC/DC	Volume resistance	<0.1 Ω
Capacitance	4.96 pF	Standards	IEC 61643-21
Lightning test current limp (10/350 μs)	2.5 kA	Discharge current, max. (8/20 μs)	20 kA
Requirements category acc. to IEC 61643-21	C2, C3, D1	Max. continuous voltage, U <sub>c</sub> (AC)	30 V
Max. continuous voltage, U <sub>c</sub> (DC)	42 V	Surge current-carrying capacity D1	2.5 kA 10/350 μs
Surge current-carrying capacity C3	100 A 10/1000 μs	Pulse-reset capacity	≤ 20 ms
Overload - failure mode	Modus 2	Rated load current IL	20 A
Discharge current I <sub>max</sub> (8/20 μs) wire-PE20 kA		Surge current-carrying capacity C2	5 kA 8/20 μs

### Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)
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### 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 <sup>2</sup>	Clamping range, 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>
Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	4 mm <sup>2</sup>

### Electrical data

Voltage type	AC/DC
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### General data

Number of poles	1	Protection degree	IP20
Colour	black		

### Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/VSSC.PDF (application/pdf)
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### 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.
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### 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		

**VSSC4 GDT 24VAC/DC 20KA**

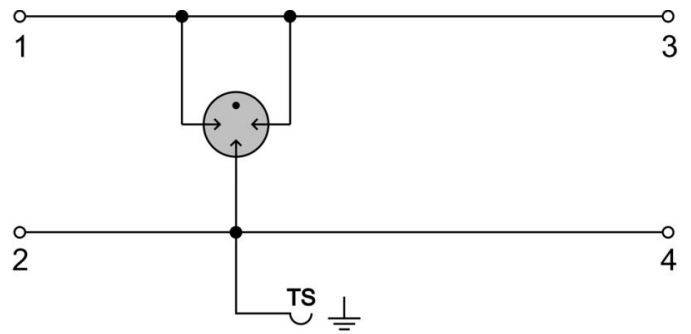
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Drawings



Similar to illustration



UNPROTECTED →

→ PROTECTED

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 VSSC4	Version	
Order No.	<a href="#">1063120000</a>	VSSC, End plate	
GTIN (EAN)	4032248947560		
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

Type	DEK 5/5 MC NE WS	Version	
Order No.	<a href="#">1609801044</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4008190397111	Weidmueller, white	
Qty.	1000 ST		