

## VSSC4 GDT 110VAC/DC20KA

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com



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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="#">1064050000</a>
Type	VSSC4 GDT 110VAC/DC20KA
GTIN (EAN)	4032248829460
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	12.4 mm	Width (inches)	0.4882 inch
Net weight	37.6 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	195 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)	110 V
Rated voltage (DC)	156 V	Rated current IN	20 A

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### Technical data

Voltage type	AC/DC	Volume resistance	<0.1 Ω
Capacitance	4.65 pF	Standards	IEC 61643-21
Lightning test current Iimp (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)	138 V
Max. continuous voltage, U <sub>c</sub> (DC)	195 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
Lightning test current, Iimp (10/350 μs) Wire-PE	2.5 kA	Overload - failure mode	Modus 2
Rated load current I <sub>L</sub>	20 A	Discharge current I <sub>n</sub> (8/20μs) wire-PE	5 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	20 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

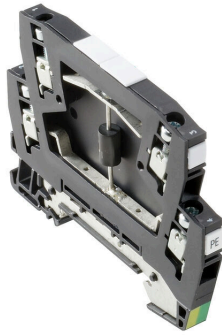
ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-01
ECLASS 15.0	27-17-15-01		

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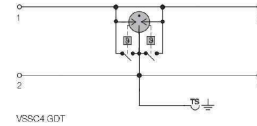
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Drawings



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Circuit diagram

