

VSSC4 GDT 110VAC/DC20KA

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration



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 μ s. Gas discharge tubes are used for higher power ratings. Any voltage greater than that specified is safely discharged in approx. 10-100 μ 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.	1064050000
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 ⁻⁹ 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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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 _c (AC)	138 V
Max. continuous voltage, U _c (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 _L	20 A	Discharge current I _n (8/20μs) wire-PE	5 kA
Discharge current I _{max} (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 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 mm ²
Connection cross-section, stranded, min.	0.5 mm ²	Connection cross-section, stranded, max.	4 mm ²

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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Technical data

Tender specification sheets

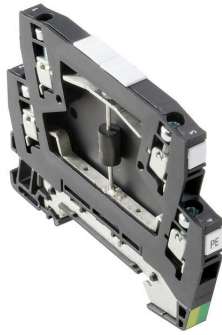
Long specification	Short specification	Feed-through terminal with gas-filled surge voltage arrester between the signal line connection and the mounting rail potential, TS 35 contact base. A signal with max. 32A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.	Feed-through terminal with gas-filled surge voltage arrester between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 110V AC

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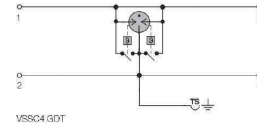
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Drawings

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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.	1063120000	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.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4008190397111	Weidmueller, white	
Qty.	1000 ST		