

VSSC4 GDT 110VAC/DC20KA**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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**Überspannungsschutz mit Einzelkomponenten****Mit Gasableiter in Klemmenbauform**

In der Klemmenbauform setzt man Gasableiter / Funkenstrecken (GDT) ein. Sie sind für eine maximale Gleichspannung zugelassen, die auf dem Bauelement aufgedruckt ist. Jede Spannung, die größer als die angegebene ist, wird sicher in ca. 10-100µs abgeleitet. Gasableiter finden für größere Leistungen Verwendung.

General ordering data

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, $U_P(L/N-PE) < 1000\text{ V}$
Order No.	1064050000
Type	VSSC4 GDT 110VAC/DC20KA
GTIN (EAN)	4032248829460
Qty.	5 pc(s).

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Technical data

Dimensions and weights

Depth	58.5 mm	Depth (inches)	2.303 inch
Height	76 mm	Height (inches)	2.992 inch
Width	12.4 mm	Width (inches)	0.488 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	11,416 a
SFF	100 %	λ_{ges}	10
PFH in $1 \cdot 10^{-9}$ per hour	0		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_I	20 A
Input voltage, max. U_i	195 V	Internal capacity, max. C_I	0 nF
Internal inductance, max. L_I	0 μ H		

General data

Colour	black	Design	Terminal
Isolating function	No	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	Surge protection for mea- surement and control		

Insulation coordination acc. to EN 50178

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

Capacitance	4.65 pF	Discharge current I_{max} (8/20 μ s) wire-PE	20 kA
Discharge current I_n (8/20 μ s) wire-PE	5 kA	Discharge current, max. (8/20 μ s)	20 kA
Lightning test current I_{imp} (10/350 μ s)	2.5 kA	Lightning test current, I_{imp} (10/350 μ s)	
		Wire-PE	2.5 kA
Max. continuous voltage, U_c (AC)	138 V	Max. continuous voltage, U_c (DC)	195 V
Number of poles	1	Overload - failure mode	Modus 2
Protection level U_P (typ.)	< 1000 V	Pulse-reset capacity	\leq 20 ms
Rated current I_N	20 A	Rated voltage (AC)	110 V
Rated voltage (DC)		Requirements category acc. to IEC 61643-21	C2, C3, D1
	156 V	Surge current-carrying capacity C2	5 kA 8/20 μ s
Standards	IEC 61643-21	Surge current-carrying capacity D1	2.5 kA 10/350 μ s
Surge current-carrying capacity C3	100 A 10/1000 μ s	Volume resistance	<0.1 Ω
Voltage type	AC/DC		

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Technical data**Further details of approvals**

GOST certificate

GOST-Zertifikat

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

Ratings IECEx/ATEX/cUL

cUL certificate

cUL Certificate

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ETIM 9.0	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
ECLASS 12.0	27-17-90-90	ECLASS 13.0	27-17-90-90

Tender specification sheets

Long specification

Feed-through terminal, 12.4mm wide 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.

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. Version: 110V AC

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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www.weidmueller.com**Technical data****Approvals**

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[SIL Paper](#)[Certificate of Compliance](#)[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

VSSC4 GDT 110VAC/DC20KA

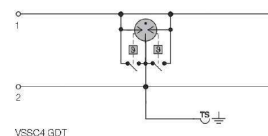
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Drawings



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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 pc(s).	

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.	1,000 pc(s).	