

**VSSC4 GDT55VUC 20KA EX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**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, $U_P(L/N-PE) \leq 1900\text{ V}$
Order No.	<a href="#">1064040000</a>
Type	VSSC4 GDT55VUC 20KA EX
GTIN (EAN)	4032248829453
Qty.	1 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	36.4 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 %	λges	10
PFH in 1*10 <sup>-9</sup> per hour	0		

## Protection Ex - Data

ATEX - dust labelling	II 1 D Ex ia IIC 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 IIC T135 °C ... T85 °C Da	IECEx - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
Input power, max. P <sub>i</sub>	0.75 W	Input voltage, max. U <sub>i</sub>	55 V
Internal capacity, max. C <sub>i</sub>	0 nF	Internal inductance, max. L <sub>i</sub>	0 μH
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 <sub>i</sub>	300 mA
Input voltage, max. U <sub>i</sub>	55 V	Internal capacity, max. C <sub>i</sub>	0 nF
Internal inductance, max. L <sub>i</sub>	0 μH		

## General data

Colour	Light Blue	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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**Technical data****Rated data IEC / EN**

Capacitance	4.65 pF	Dielectric strength at FG against PE	≥ 500 V
Discharge current $I_{\max}$ (8/20μs) wire-PE	20 kA	Discharge current $I_n$ (8/20μs) wire-PE	5 kA
Discharge current, max. (8/20 μs)	20 kA	Input voltage, max. $U_i$	55 V
Lightning test current $I_{\text{imp}}$ (10/350 μs)	2.5 kA	Max. continuous voltage, $U_c$ (AC)	55 V
Max. continuous voltage, $U_c$ (DC)	38 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level $U_p$ (typ.)	≤ 1900 V
Pulse-reset capacity	≤ 20 ms	Rated current $I_N$	300 mA
Rated voltage (AC)	55 V	Rated voltage (DC)	80 V
Requirements category acc. to IEC 61643-21	C2, C3, D1	Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
Surge current-carrying capacity C2	5 kA 8/20 μs	Surge current-carrying capacity C3	100 A 10/1000 μs
Surge current-carrying capacity D1	2.5 kA 10/350 μs	Voltage type	AC/DC
Volume resistance	<0.1 Ω		

**Further details of approvals**

GOST certificate	GOST-Zertifikat
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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>

**Ratings IECEx/ATEX/cUL**

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
ATEX certificate	ATEX Certificate	IEC Ex certificate	11ATEX0023X
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
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

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**Technical data****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. An intrinsically safe signal with max. 0.3A 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. Suitable for ATEX applications. Tested to Ex area ignition protection types: Ex ia IIC / Ex iaD

## 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: 55V UC. Suitable for ATEX applications.

**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 Conformity

[EG Baumusterprüfung / EC Type Examination](#)  
[SIL Paper](#)  
[Certificate of Compliance](#)  
[EU Konformitätserklärung / EU Declaration of Conformity](#)

## Engineering Data

[CAD data – STEP](#)

## User Documentation

[Beipackzettel / Instruction sheet](#)  
[Beipackzettel / Instruction sheet](#)

## Catalogues

[Catalogues in PDF-format](#)

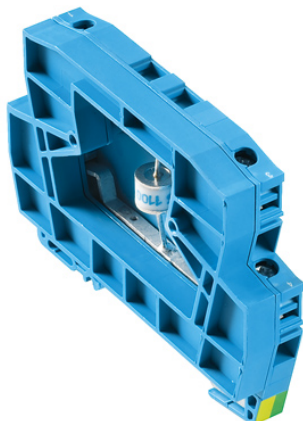
## Brochures

## VSSC4 GDT55VUC 20KA EX

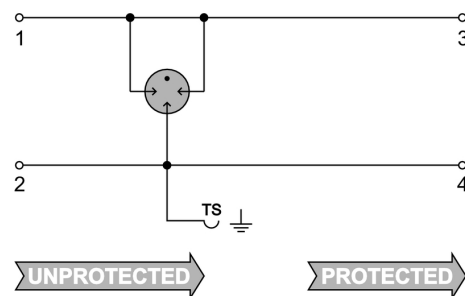
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# Drawings



Similar to illustration



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 LB	Version
Order No.	<a href="#">1067240000</a>	VSSC, End plate
GTIN (EAN)	4032248999873	
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.	<a href="#">1609801044</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1,000 pc(s).	