

**VSSC6 GDT 240VAC/DC10KA****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 / sparkover gaps (GDT) are designed with a terminal shape. They are approved for a maximum DC voltage, which is printed on the component. Any voltage greater than the amount specified is safely discharged within about 10-100µs. Gas arresters can be used for high-power applications.

**General ordering data**

|            |                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------|
| Version    | Surge protection for instrumentation and control,<br>Surge protection for measurement and control |
| Order No.  | <a href="#">1064710000</a>                                                                        |
| Type       | VSSC6 GDT 240VAC/DC10KA                                                                           |
| GTIN (EAN) | 4032248829996                                                                                     |
| Qty.       | 5 items                                                                                           |

## VSSC6 GDT 240VAC/DC10KA

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

www.weidmueller.com

## Technical data

### Approvals

Approvals



ROHS Conform

### Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 81 mm   | Depth (inches)  | 3.189 inch  |
| Height     | 88.5 mm | Height (inches) | 3.4842 inch |
| Width      | 6.2 mm  | Width (inches)  | 0.2441 inch |
| Net weight | 52.8 g  |                 |             |

### Temperatures

|                     |                |                       |             |
|---------------------|----------------|-----------------------|-------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 |
| 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       | 12 A  | Gas group C                | IIB  |
| Internal inductance, max. LI | 0 μH  | Internal capacity, max. CI | 0 nF |
| Input voltage, max. Ui       | 407 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 |
|------------------------|-----|--------------------|---|

### Rated data IEC / EN

|                    |       |                    |       |
|--------------------|-------|--------------------|-------|
| Number of poles    | 1     | Rated voltage (AC) | 240 V |
| Rated voltage (DC) | 339 V | Rated current IN   | 12 A  |

## VSSC6 GDT 240VAC/DC10KA

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

### Technical data

|                                              |                                  |                                                      |                  |
|----------------------------------------------|----------------------------------|------------------------------------------------------|------------------|
| Voltage type                                 | AC/DC                            | Volume resistance                                    | <0.1 Ω           |
| Capacitance                                  | 3.0 nF                           | Standards                                            | IEC 61643-21     |
| Lightning test current limp (10/350 μs)      | 1 kA                             | Discharge current, max. (8/20 μs)                    | 10 kA            |
| Requirements category acc. to IEC 61643-21   | C2, C3, D1                       | Max. continuous voltage, U <sub>c</sub> (AC)         | 288 V            |
| Max. continuous voltage, U <sub>c</sub> (DC) | 407 V                            | Surge current-carrying capacity D1                   | 0.5 kA 10/350 μs |
| Surge current-carrying capacity C3           | 50 A 10/1000 μs                  | Lightning test current, limp (10/350 μs)             | 1 kA             |
| Overload - failure mode                      | Modus 2                          | Wire-PE                                              |                  |
| Surge current-carrying capacity C2           | 2.5 kA 8/20 μs 5 kV<br>1.2/50 μs | Discharge current I <sub>max</sub> (8/20 μs) wire-PE | 10 kA            |

### Further details of approvals

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| GOST certificate | GOST-Zertifikat -<br>PDF/7950_n1-n4.pdf<br>(application/pdf) |
|------------------|--------------------------------------------------------------|

### 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 |
|--------------|-------|

### General data

|                 |       |                   |      |
|-----------------|-------|-------------------|------|
| Number of poles | 1     | Protection degree | IP20 |
| Colour          | black |                   |      |

### Ratings IECEx/ATEX/cUL

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| cUL certificate | cUL Certificate - pdf/<br>VSSC.PDF (application/<br>pdf) |
|-----------------|----------------------------------------------------------|

### 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. |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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 |             |             |

VSSC6 GDT 240VAC/DC10KA

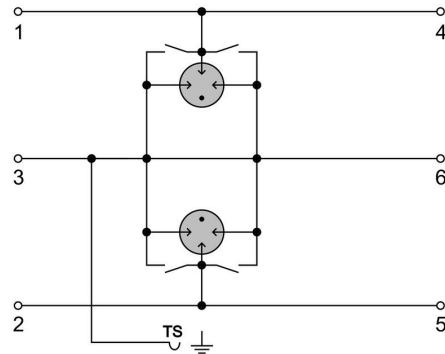
Weidmüller Interface GmbH & Co. KG  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

Drawings



Similar to illustration



Circuit diagram



## VSSC6 GDT 240VAC/DC10KA

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

www.weidmueller.com

## Accessories

### Accessories (end plates)



End plates (AP) for the VSSC product series in light blue and black

### General ordering data

|            |                            |                 |  |
|------------|----------------------------|-----------------|--|
| Type       | AP VSSC6                   | Version         |  |
| Order No.  | <a href="#">1063110000</a> | VSSC, End plate |  |
| GTIN (EAN) | 4032248947553              |                 |  |
| 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                    |                                                           |  |

### SnapMark



SnapMark - this tag carrier has been developed specifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows cross-connections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

## VSSC6 GDT 240VAC/DC10KA

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

[www.weidmueller.com](http://www.weidmueller.com)

## Accessories

### General ordering data

|            |                            |                                                                  |  |
|------------|----------------------------|------------------------------------------------------------------|--|
| Type       | SNAPMARK I                 | Version                                                          |  |
| Order No.  | <a href="#">1805880000</a> | Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00 |  |
| GTIN (EAN) | 4032248273614              | Weidmueller, white                                               |  |
| Qty.       | 50 ST                      |                                                                  |  |