

**VSSC4 TAZ 48VAC/DC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

Surge protection with individual components

## • With suppressor diodes

Suppressor diodes work similarly as conventional Zener diodes. The diode becomes conductive within 10&ndash; 100ps after a certain breakdown voltage, set by the manufacturer, is exceeded. Compared to Zener diodes, suppressor diodes have a higher current-carrying capacity and a shorter reaction time.

**General ordering data**

|            |  |
|------------|--|
| Version    | Surge protection for instrumentation and control,<br>Surge protection for measurement and control,<br>$U_P(L/N-PE) < 165\text{ V}$ |
| Order No.  | <a href="#">1064090000</a>   |
| Type       | VSSC4 TAZ 48VAC/DC   |
| GTIN (EAN) | 4032248829507  |
| Qty.       | 10 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      | 6.2 mm  | Width (inches)  | 0.244 inch |
| Net weight | 26 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            | 3,567 a |
| SFF                               | 100 % | $\lambda_{ges}$ | 32      |
| PFH in $1 \cdot 10^{-9}$ per hour | 0     |                 |         |

## Rated data UL

|                |               |
|----------------|---------------|
| UL certificate | UL Zertifikat |
|----------------|---------------|

## 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. $U_i$       | 85 V      | Internal capacity, max. $C_i$ | 1 nF |
| Internal inductance, max. $L_i$ | 0 $\mu$ H |                               |      |

## General data

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

## Insulation coordination acc. to EN 50178

|                    |   |                        |     |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

## Rated data IEC / EN

|  |                          |  |               |
|--|--------------------------|--|---------------|
| Capacitance                                    | 0.45 nF                  | Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 0,1 kA        |
| Discharge current $I_n$ (8/20 $\mu$ s) wire-PE | 0.05 kA                  | Discharge current, max. (8/20 $\mu$ s)             | 0.1 kA        |
| Max. continuous voltage, $U_c$ (AC)            | 60 V                     | Max. continuous voltage, $U_c$ (DC)                | 85 V          |
| Number of poles                                | 1                        | Overload - failure mode                            | Mode 1        |
| Protection level $U_p$ (typ.)                  | < 165 V                  | Rated current $I_N$                                | 20 A          |
| Rated voltage (AC)                             | 48 V                     | Rated voltage (DC)                                 | 75 V          |
| Standards                                      | According to IEC61643-21 | Surge current-carrying capacity C3                 | 15 A          |
| Voltage type                                   | AC/DC                    | Volume resistance                                  | <0.1 $\Omega$ |

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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 <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

|                 |                 |
|-----------------|-----------------|
| 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 |
| ECLASS 14.0 | 27-17-90-90 |             |             |

## Tender specification sheets

|                    |  |                     |  |
|--------------------|--|---------------------|--|
| Long specification | Feed-through terminal, 6.2 mm wide with suppressor diodes 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 suppressor diode between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 48 V UC |
|--------------------|--|---------------------|--|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 71e97bb7-979f-4330-94c0-20c629bb05e3 |
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |

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Catalogue status 17.08.2024 / We reserve the right to make technical changes.

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Important note**

Product information

Mode 1: State where the voltage-limiting part of the SPD was disconnected. The voltage limiting function is no longer available, but the cable is still functional.

**Approvals**

Approvals



ROHS

Conform

**Downloads**

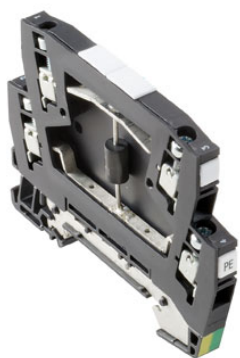
|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">SIL Paper</a><br><a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   |  |

## VSSC4 TAZ 48VAC/DC

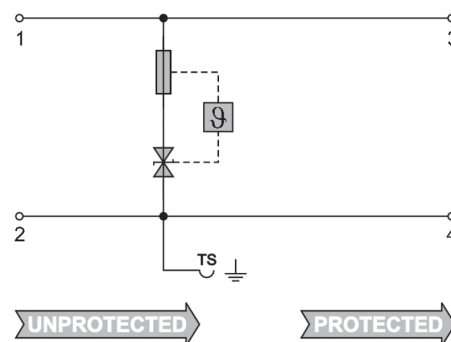
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## Drawings



Similar to illustration



Circuit diagram



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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).               |   |

**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.  | <a href="#">1063120000</a> | VSSC, End plate |
| GTIN (EAN) | 4032248947560              |                 |
| Qty.       | 50 pc(s).                  |                 |