

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

















Similar to illustration

Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrical and process automation as well as in building automation applications.

General ordering data

| Version | Surge protection for instrumentation and control, | | |
|------------|---|--|--|
| | Surge protection for measurement and control | | |
| Order No. | <u>1421440000</u> | | |
| Туре | VSSC6 TR SL FG 24VAC/DC EX | | |
| GTIN (EAN) | 4050118225228 | | |
| Qty. | 5 items | | |

1 Catalogue status / Drawings







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Technical data

| Approvals | | | | | |
|--|---|--|--------------------------------------|--|--|
| Approvals | C E CSAEX | ATEX ETP IECEX | | | |
| ROHS | Conform | | | | |
| Dimensions and weights | | | | | |
| Net weight | 16.6 g | | | | |
| Temperatures | | | | | |
| Storage temperature Humidity | -40 °C80 °C 596 % | Operating temperature | -40 °C70 °C | | |
| Probability of failure | | | , | | |
| SIL in compliance with IEC 61508 SFF PFH in 1*10-9 per hour | 3 96.67 % | MTTF λges | 1342 a 54 | | |
| RoHS Compliance Status RoHS Exemption (if applicable/known) REACH SVHC | Compliant with exemption 7a, 7cl Lead 7439-92-1 | | | | |
| SCIP Protection Ex - Data | 71e97bb7-979f-4330-94c0 | J-ZUC6Z9DDU5e3 | | | |
| | | | | | |
| 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 G | | |
| 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 G | | |
| Input power, max. PI | 0.75 W | Internal capacity, max. CI | 2 nF | | |
| Internal inductance, max. LI | 0 μΗ | 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 D | IIA | Gas groups A, B | IIC | | |
| Input-current, max. II Internal inductance, max. LI | 300 mA 0 μH | Gas group C Internal capacity, max. CI | IIB 2 nF | | |
| General data | | | | | |
| | | | | | |
| Optical function display | No | Segment | Measurement - Monitorir - Setting | | |
| Version | Surge protection for measurement and control | Colour | Light Blue | | |
| N.A | TO 0 = | | | | |

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TS 35

Functional screw with test plug receptacle, connections 1, 2, 4, 5

Mounting rail

Testing option

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Isolating function

Yes





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Technical data

| Surge voltage category | III | Pollution severity | 2 | |
|--|--|---|--|--|
| Rated data IEC / EN | | | | |
| Number of poles | 1 | Rated current IN | 300 mA | |
| Protection level on output side Wire-wir 1 kV/µs, typically | | Volume resistance | 1.8 Ω 10 % | |
| Lightning test current limp (10/350 μs) | 1 kA | Discharge current, max. (8/20 µs) | 10 kA | |
| Dielectric strength at FG against PE | ≥ 500 V | Surge current-carrying capacity D1 | 1 kA 10/350 μs | |
| Surge current-carrying capacity C3 | 50 A 10/1000 μs | Pulse-reset capacity | ≤ 20 ms | |
| Signal transmission properties (-3 dB) | 270 Mhz | Lightning test current, limp (10/350 μs) Wire-PE | 0.5 kA | |
| Overload - failure mode Modus 2 | | Discharge current In (8/20µs) wire-wire | 2.5 kA | |
| Discharge current Imax (8/20μs) wire-PE10 kA | | Discharge current Imax (8/20µs) wirewire | 10 kA | |
| Surge current-carrying capacity C2 | 2.5 kA 8/20 µs 5 kV 1.2/50 µs | | | |
| Connection data | | | | |
| | | | | |
| Stripping length | 10 mm | 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 mm² | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm² | |
| 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 | | | |
| General data | | | | |
| Number of poles | 1 | Colour | Light Blue | |
| 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 | |
| ECEx - 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 | |
| Marking EN 60079 | Ex ec nC IIC T4 Gc | cUL certificate | cUL Certificate - pdf/ VSSC.PDF (application/ pdf) | |
| Important note | | | | |
| Product information | | Itage-limiting part of the SPD was short-cire. The line is inoperable, but the measuring e | | |
| | by means of a short-circuit. | | | |
| Classifications | | | | |
| ETIM 7.0 | EC000943 | ETIM 8.0 | EC000943 | |
| ETIM 9.0 | EC000943 | ETIM 10.0 | EC000943 | |
| | | | | |
| ECLASS 12.0 | 27-17-15-02 | ECLASS 13.0 | 27-17-15-02 | |

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Technical data

Tender specification sheets

Long specification

Surge protection in a one piece, 12.4 mm wide terminal rail module for a floating-ground, intrinsically safe signal circuit with 48 VUC in 2-wire technology. A current loop with max. 0.6 A can be protected here. Each signal path can be opened using an isolator. When the terminal is fitted, a sparkover gap is simultaneously created to the high-impedance earth between the terminal rail (earth) and the reference potential (ground) of the protective circuit. Optical identification of the terminal based on the type of protective circuit and the voltage level. The terminal can be labelled.

Short specification

Surge protection in a one piece, 12.4 mm wide terminal rail module for an intrinsically safe, floating-ground driven signal circuit with 2-wire technology and a common wire. Each signal path can be opened using an isolator. Version: 48 VUC



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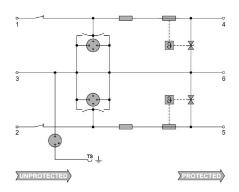
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Drawings



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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 VSSC6 LB Order No. GTIN (EAN)

1067230000 4032248999866

50 ST Qty.

Version VSSC, End plate

Testadapter and testsockets









Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

20 ST

Туре PS 2.3 RT Order No. 0180400000 GTIN (EAN) 4008190060121 Version

Test adapter (terminal), 230 V, 20 mA

Blank

Qtv.



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.

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Accessories

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

SnapMark



SnapMark - this tag carrier has been developed especifically 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.

General ordering data

 Type
 SNAPMARK I
 Version

 Order No.
 1805880000
 Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00

 GTIN (EAN)
 4032248273614
 Weidmueller, white

 Qty.
 50 ST

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