

VSSC6TRCLFG24VAC/DC EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

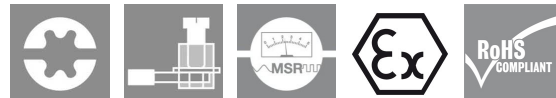
D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



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 industrial and process automation as well as in building automation applications.

General ordering data

| | |
|------------|--|
| Order No. | 1066490000 |
| Type | VSSC6TRCLFG24VAC/DC EX |
| Version | Surge protection for instrumentation and control |
| GTIN (EAN) | 4032248820122 |
| Qty. | 5 pc(s). |

VSSC6TRCLFG24VAC/DC EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Technical data

Dimensions and weights

| | | | |
|-------|---------|------------|---------|
| Width | 12.2 mm | Height | 88.5 mm |
| Depth | 81 mm | Net weight | 43.4 g |

Temperatures

| | | | |
|---------------------|-----------------|-----------------------|-----------------|
| Humidity | 5...96 % | Operating temperature | -40 °C...+70 °C |
| Storage temperature | -40 °C...+80 °C | | |

Probability of failure

| | | | |
|-----------------------------------|------|------|-------------|
| λ_{ges} | 19 | MTTF | 6,008 Years |
| PFH in $1 \cdot 10^{-9}$ per hour | 1.95 | SFF | 89.74 % |
| SIL in compliance with IEC 61508 | 2 | | |

General data

| | | | |
|-------------------|--|---------------------------|-----------------------------|
| Colour | Light Blue | Isolating function | Yes |
| Mounting rail | TS 35 | Optical function display | No |
| Protection degree | | Segment | Instrumentation and Control |
| | IP 20 | | |
| Testing option | Functional screw with test plug receptacle, connections 1, 2, 4, 5 | UL 94 flammability rating | V-0 |

Insulation coordination acc. to EN 50178

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

Interference voltage

| | | | |
|---|------|--|-------|
| Protection level on output side Wire-wire 1 kV/ μ s, typically | 70 V | Protection level on output side Wire-PE 1kV/ μ s, typically | 900 V |
|---|------|--|-------|

Protection level

| | | | |
|-----------------------------------|-------|-------------------------------------|------|
| Protection level, U_P wire - PE | 900 V | Protection level, U_P wire - wire | 90 V |
|-----------------------------------|-------|-------------------------------------|------|

technical data

| | | | |
|--|-------------------|---|---|
| Rated voltage (AC) | 24 V | Rated voltage (DC) | 34 V |
| Rated current | 300 mA | Max. continuous voltage, U_c (AC) | 30 V |
| Max. continuous voltage, U_c (DC) | 42 V | Discharge current I_n (8/20 μ s) wire-wire | 2.5 kA |
| Discharge current I_{max} (8/20 μ s) wire-wire | 5 kA | Discharge current I_n (8/20 μ s) wire-PE | 2.5 kA |
| Discharge current I_{max} (8/20 μ s) wire-PE | 5 kA | Discharge current, max. (8/20 μ s) | 10 kA |
| Protection level U_P (typ.) | | Standards | IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006 |
| | ≤ 1870 V | | |
| Colour | Light Blue | Humidity | 5...96 % |
| Requirements category acc. to IEC 61643-21 | C2, C3, D1 | Lightning test current I_{imp} (10/350 μ s) | 0.5 kA |
| Volume resistance | 1.8 Ω 10 % | Residual voltage, U_P typical | 1,632 V |
| Dielectric strength at FG against PE | ≥ 500 V | Overload - failure mode | Modus 2 |

Creation date April 26, 2013 10:15:55 PM CEST

Catalogue status 12.03.2013 / We reserve the right to make technical changes.

2

VSSC6TRCLFG24VAC/DC EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Technical data

Connection data

| | | | |
|---|---------------------|---|-------------------|
| Clamping range, rated connection, min. | 0.5 mm ² | Clamping range, rated connection, max. | 4 mm ² |
| Wire connection cross section, stranded, rated connection, min. | 0.5 mm ² | Wire connection cross section, stranded, rated connection, max. | 4 mm ² |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.8 Nm |

EX protection data

| | | | |
|---|--------|---|--------|
| Input power, max. P _I | 0.75 W | Internal capacitance, max. C _I | 1 nF |
| Internal inductance, max. L _I | 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 |

Further details of approvals

GOST certificate GOST-Zertifikat

Rated data UL

UL certificate UL Zertifikat

Ratings IECEx/ATEX

ATEX certificate ATEX Certificate IEC Ex certificate IECEX Zertifikat

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000943 | UNSPSC | 30-21-19-21 |
| eClass 4.1 | 27-13-08-01 | eClass 5.1 | 27-13-08-01 |
| eClass 6.2 | 27-14-02-01 | eClass 7.1 | 27-13-08-05 |

Approvals

Approvals



ROHS Conform

Probability of failure

SIL PAPER [SIL Paper](#)
[3-D model](#)

Downloads

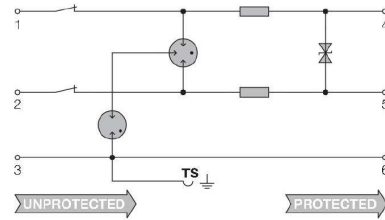
Package insert [Instruction sheet VSSC](#)
 Declaration of Conformity [K378_02_11.pdf](#)
 PDF [Type examination certificate](#)
[3-D model](#)

VSSC6TRCLFG24VAC/DC EX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

Similar to illustration



Circuit diagram

