

## VSPC MOV 2CH 24V R

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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



- Pluggable arrester with ungrounded varistors (MOV) for use as protection circuit for coils
- For applications as surge protection, external wire links to GND must be connected at the VSPC BASE FG (e.g. connection 8-10 and 9-5)
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Integrated PE foot in the VSPC BASE, safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE

### General ordering data

Version	Surge protection for instrumentation and control, with warning function / function indicator
Order No.	<a href="#">8951650000</a>
Type	VSPC MOV 2CH 24V R
GTIN (EAN)	4032248742899
Qty.	1 pc(s).

Creation date September 18, 2022 4:23:01 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

Depth	69 mm	Depth (inches)	2.717 inch
Height	98 mm	Height (inches)	3.858 inch
Width	17.8 mm	Width (inches)	0.701 inch
Net weight	46 g		

**Temperatures**

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

**Probability of failure**

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	1,479 Years	SFF	100 %
$\lambda_{ges}$	77.2	PFH in $1 \cdot 10^{-9}$ per hour	0

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Rated data UL**

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate
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**CSA protection data**

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. $U_i$	42 V
Internal capacity, max. $C_i$	2 nF	Internal inductance, max. $L_i$	0 $\mu$ H

**General data**

Colour	orange	Design	Terminal, miscellaneous
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	with warning function / function indicator		

**Insulation coordination acc. to EN 50178**

Pollution severity	2	Surge voltage category	III
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## Technical data

## Rated data IEC / EN

Capacitance	14.5 nF	Discharge current $I_{\max}$ (8/20 $\mu$ s) GND-PE	1 kA
Discharge current $I_{\max}$ (8/20 $\mu$ s) wire-wire	1 kA	Discharge current $I_n$ (8/20 $\mu$ s) GND-PE	1 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-wire	1 kA
Fuse	10A	Lightning test current, $I_{\text{imp}}$ (10/350 $\mu$ s) GND-PE	0.5 kA
Lightning test current, $I_{\text{imp}}$ (10/350 $\mu$ s) wire-wire	0.2 kA	Max. continuous voltage, $U_c$ (AC)	30 V
Max. continuous voltage, $U_c$ (DC)	38 V	Number of poles	1
Overload - failure mode	Mode 1	Protection level on output side Wire-wire 1 kV/ $\mu$ s, typically	80 V
Protection level on output side Wire-wire 8/20 $\mu$ s, typically	95 V	Protection level, $U_p$ wire - wire	200 V
Rated current $I_N$	10 A	Rated voltage (AC)	24 V
Rated voltage (DC)	30 V	Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
Signalling contact	$U_N$ 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit	Standards	IEC 61643-21
Surge current-carrying capacity C1	< 1 kA 8/20 $\mu$ s	Surge current-carrying capacity C2	1 kA 8/20 $\mu$ s
Surge current-carrying capacity C3	100 A 10/1000 $\mu$ s	Surge current-carrying capacity D1	0.5 kA 10/350 $\mu$ s
Voltage type	AC/DC	Volume resistance	0.20 $\Omega$

## Further details of approvals

GOST certificate	GOST-Zertifikat
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## Connection data

Type of connection	Pluggable in VSPC BASE
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## Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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## Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	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

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## Technical data

## Tender specification sheets

Long specification	Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables with integrated status display and remote monitoring option. Version: 230 V AC	Short specification
	Single-stage protective circuitry in plug, consisting of varistor protection between the signal wires. Mechanical identification of the plug to the base element according to the switching type and rated voltage. Protected plug with coding pin and counter-profile for the base element. Optical identification of the protected plug based on the type of protected switching and the voltage level. It is possible to mark the plug.	Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables with integrated status display and remote monitoring option. Version: 24 V AC

## Important note

Product information	External wire bridges must be used for connection to PE. 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.
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## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E31 1081

## Downloads

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

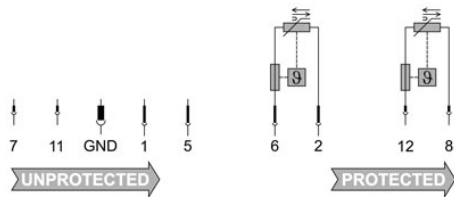
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**Drawings**

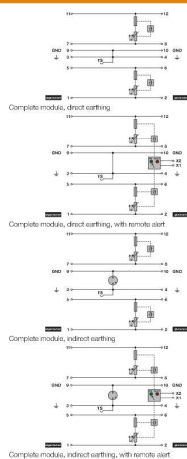
**Electric symbol**



Similar to illustration

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick- rising edge	0.5 - 2 kV 1.2/50 µs	0.25 - 1 kA mit 8/20 µs	300	Surge voltage arrester
C2	Quick- rising edge	2 - 10 kV 1.2/50 µs	1 - 5 kA mit 8/20 µs	10	Surge voltage arrester
C3	Quick- rising edge	≥ 1 kV with 1 kV/µs	10 - 100 A mit 10/10000 µs	300	Surge voltage arrester
D1	High power	≥ 1 kV	0.5 - 2.5 kA mit 10/350 µs	2	Arrester for lightning current and surge voltages

Discharge capacity



Komplettmodul

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