

VSSC
VSSC6 RS485 PA EX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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Fax: +49 5231 14-292083

www.weidmueller.com



Data surge protection

- for RS 422 and RS 485 signals
- Can also be connected as T branch with K21 wall-mounted housing

General ordering data

Type	VSSC6 RS485 PA EX
Order No.	1065020000
Version	Surge protection for instrumentation and control, 12 V, 300 mA, IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
GTIN (EAN)	4032248830251
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	12.4 mm	Width (inches)	0.488 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	56 g		

Temperatures

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

Probability of failure

λ_{ges}	29	MTTF	3,936 Jahre
PFH in $1 \cdot 10^{-9}$ per hour	1.75	SFF	93.97 %
SIL in compliance with IEC 61508	3		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Protection Ex - Data

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
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 Ga
Input power, max. P_i	0.75 W	Input voltage, max. U_i	35 V
Internal capacity, max. C_i	1 nF	Internal inductance, max. L_i	0 μ H
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 C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_i	300 mA
Input voltage, max. U_i	35 V	Internal capacity, max. C_i	1 nF
Internal inductance, max. L_i	0 μ H		

General data

Colour	Light Blue	Design	Terminal
Isolating function	No	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	Surge protection for measurement and control		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Rated data IEC / EN

Dielectric strength at FG against PE	≥ 500 V	Discharge current $I_{\max}$ (8/20μs) wire-PE	5 kA
Discharge current $I_{\max}$ (8/20μs) wire-wire	5 kA	Discharge current I_n (8/20μs) wire-PE	2.5 kA
Discharge current I_n (8/20μs) wire-wire	2.5 kA	Discharge current, max. (8/20 μs)	10 kA
Input voltage, max. U_i	35 V	Insertion loss	250 MHz
Lightning test current I_{imp} (10/350 μs)	0.5 kA	Lightning test current, I_{imp} (10/350 μs)	Wire-PE 0.5 kA
Max. continuous voltage, U_c (DC)	35 V	Overload - failure mode	Modus 2
Protection level U_p (typ.)	≤ 2 kV	Pulse-reset capacity	≤ 15 ms
Rated current I_N	300 mA	Rated voltage (DC)	12 V
Requirements category acc. to IEC 61643-21	C2, C3, D1	Signal transmission properties (-3 dB)	113.6 MHz
Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs
Surge current-carrying capacity C3	10 A 10/1000 μs	Surge current-carrying capacity D1	0.5 kA 10/350 μs
Voltage type	DC	Volume resistance	1.8 Ω 10 %

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Screw connection	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 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
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		

Ratings IECEx/ATEX/cUL

ATEX certificate	ATEX Certificate	IEC Ex certificate	IECEX Zertifikat
cUL certificate	cUL Certificate		

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000943
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-14-02-01	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-07
eClass 9.1	27-13-08-07		

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Technical data**Approvals**

Approvals



ROHS Conform

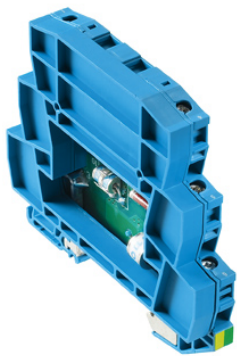
Downloads

Approval/Certificate/Document of Conformity	SIL Paper
	Declaration of Conformity
	Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet VSSC
	Type examination certificate
	Instruction sheet VSSC EX

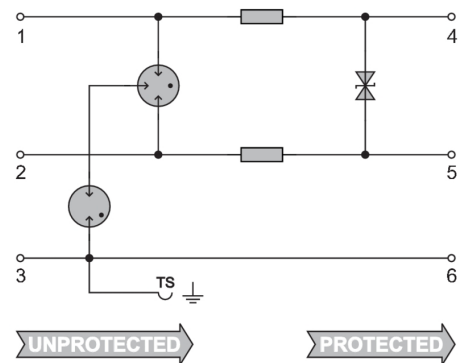
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Drawings



Similar to illustration



Circuit diagram

