

VSSC6 RS485 DP

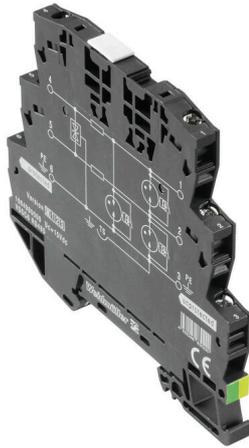
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

Data surge protection

- for RS 422 and RS 485 signal
- suitable as transient surge protection for fast data signals

General ordering data

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, UP(L/N-PE) ≤ 100 V
Order No.	1065010000
Type	VSSC6 RS485 DP
GTIN (EAN)	4032248830244
Qty.	10 items

VSSC6 RS485 DP

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UL) E311081

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.4842 inch
Width	6.2 mm	Width (inches)	0.2441 inch
Net weight	42 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	1903 a
SFF	94.58 %	λges	60
PFH in 1*10 ⁻⁹ per hour	3.25		

Environmental Product Compliance

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

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf)
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CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. I _I	500 mA	Gas group C	IIB
Internal inductance, max. L _I	0 μH	Internal capacity, max. C _I	7 nF
Input voltage, max. U _i	15 V		

General data

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

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Technical data

Insulation coordination acc. to EN 50178

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

Number of poles	1	Rated voltage (DC)	12 V
Rated current I _N	500 mA	Protection level UP (typ.)	≤ 100 V
Voltage type	AC	Volume resistance	1.8 Ω 10 %
Standards	IEC 61643-21	Lightning test current I _{imp} (10/350 μs)	0.5 kA
Discharge current, max. (8/20 μs)	20 kA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Insertion loss	113.7 MHz	Max. continuous voltage, U _c (DC)	15 V
Surge current-carrying capacity D1	0.5 kA 10/350 μs	Surge current-carrying capacity C3	10 A 10/1000 μs
Pulse-reset capacity	≤ 15 ms	Signal transmission properties (-3 dB)	113.6 MHz
Lightning test current, I _{imp} (10/350 μs)	0.5 kA	Overload - failure mode	Modus 2
Wire-PE			
Discharge current I _n (8/20 μs) wire-wire	2.5 kA	Discharge current I _n (8/20 μs) wire-PE	2.5 kA
Discharge current I _{max} (8/20 μs) wire-PE	10 kA	Discharge current I _{max} (8/20 μs) wire-wire	10 kA
Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs		

Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)
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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 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

Electrical data

Voltage type	AC
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General data

Number of poles	1	Protection degree	IP20
Colour	black		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/VSSC.PDF (application/pdf)
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Technical data**Important note**

Product information Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.

Classifications

ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

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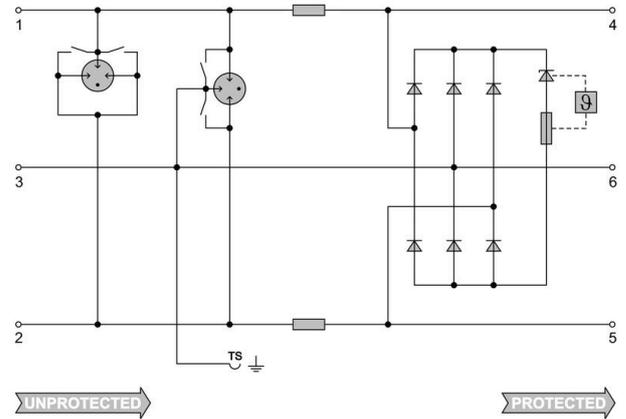
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Drawings

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Similar to illustration



Circuit diagram



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Accessories

Accessories (end plates)

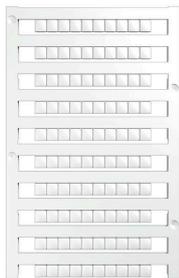


End plates (AP) for the VSSC product series in light blue and black

General ordering data

Type	AP VSSC6	Version	
Order No.	1063110000	VSSC, End plate	
GTIN (EAN)	4032248947553		
Qty.	50 ST		

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.	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 specifically 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.

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Accessories

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		