C-SAT-BOX - Surge protection device

2880561

https://www.phoenixcontact.com/us/products/2880561

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Surge protection for antenna distributors in satellite systems. IN and OUT via F connectors, 5 channels for signals from SAT systems and terrestrial antennas, ground connection on the outside of the housing.

Your advantages

- No signal interference with optimum transmission properties
- Space-saving, thanks to the compact design
- Protection of digital and analog signals with universal protective circuit
- Easy installation with surface mounting

Commercial data

Item number	2880561
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL25
Product key	CL3315
GTIN	4046356048941
Weight per piece (including packing)	277.3 g
Weight per piece (excluding packing)	228.24 g
Customs tariff number	85363010
Country of origin	DE

Technical data

Product properties

Product type	Surge protection for transceiver systems
IEC test classification	B2
	C1
	C2
	C3
	D1
Type	Housing for surface mounting
Number of positions	5

Insulation characteristics

Overvoltage category	II
Pollution degree	2

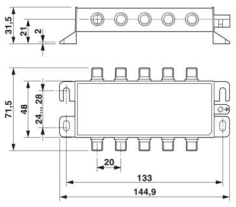
Electrical properties

Nominal voltage U_N	14 V DC (vertical)
	18 V DC (horizontal)

Connection data

Connection method	F connector

Dimensions

Dimensional drawing	
Width	144.9 mm
Height	31.5 mm
Depth	71.5 mm

Material specifications

Color	silver-colored
Housing material	Die-cast zinc
Housing surface material	Ni
Inner conductor surface material	Sn
Insulation body material	PP
Spring contact material	CuSn

Protective circuit

Direction of action	Line-Shield/Earth Ground
Nominal voltage U_N	14 V DC (vertical)
	18 V DC (horizontal)
Maximum continuous operating voltage U_C	20 V DC
Rated current	400 mA
Operating effective current I_C at U_C	≤ 2 µA (per channel)
Protective conductor current I_{PE}	≤ 2 µA (per channel)
Nominal discharge current I_n (8/20) µs (line-shield)	2.5 kA
Pulse discharge current I_{imp} (10/350) µs	0.5 kA
Total discharge current I_{Total} (8/20) µs	10 kA
Max. discharge current I_{max} (8/20) µs maximum (line-shield)	2.5 kA
Nominal pulse current Ian (10/1000) µs (line-shield)	100 A
Nominal pulse current Ian (10/700) µs (line-shield)	100 A
Output voltage limitation at 1 kV/µs (line-shield) static	≤ 80 V
Voltage protection level U_p (line-shield)	≤ 500 V (C2 - 4 kV / 2 kA)
	≤ 120 V (C3 - 100 A)
Response time tA (line-shield)	≤ 1 ns
Input attenuation aE, asym.	≤ 1 dB (5 MHz ... 2.2 GHz / 75 Ω)
	≤ 3 dB (5 MHz ... 2,4 GHz / 75 Ω)
Near-end crosstalk attenuation	≥ 40 dB (5 MHz ... 2,4 GHz / 75 Ω)
Cut-off frequency fg (3 dB), asym. (shield) in 75 Ω system	> 2.5 GHz
Frequency range	47 MHz ... 2.5 GHz
Inductivity in series	typ. 5 µH (f = 10 kHz)
Resistance per path	3.3 Ω ±20 %
Surge protection fault message	none
Impulse durability (line-shield)	B2 - 4 kV / 100 A
	C1 - 1 kV / 500 A
	C2 - 4 kV/2 kA
	C3 - 100 A
	D1 - 500 A
Impulse durability (shield-ground)	C2 - 10 kA
	D1 - 5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 4000 m (amsl)

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + A1:2008 + A2:2012
Standards/specifications	EN 61643-21

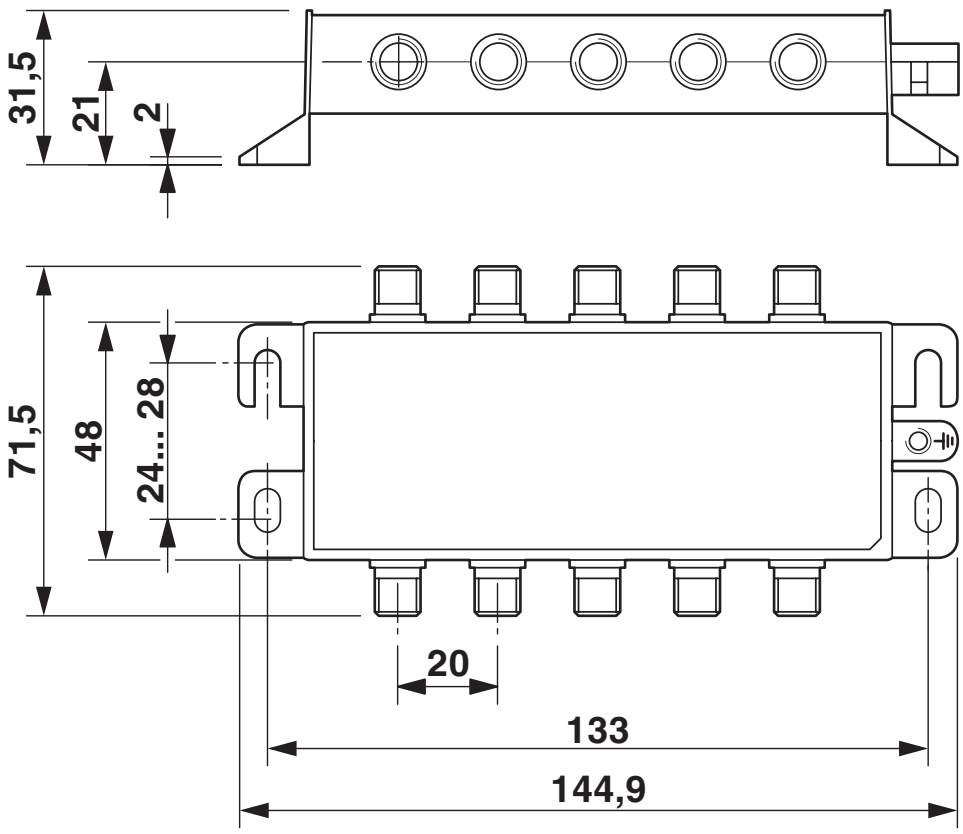
Note	2013
Standards/specifications	EN 50083-2
Note	CLASS-A

Mounting

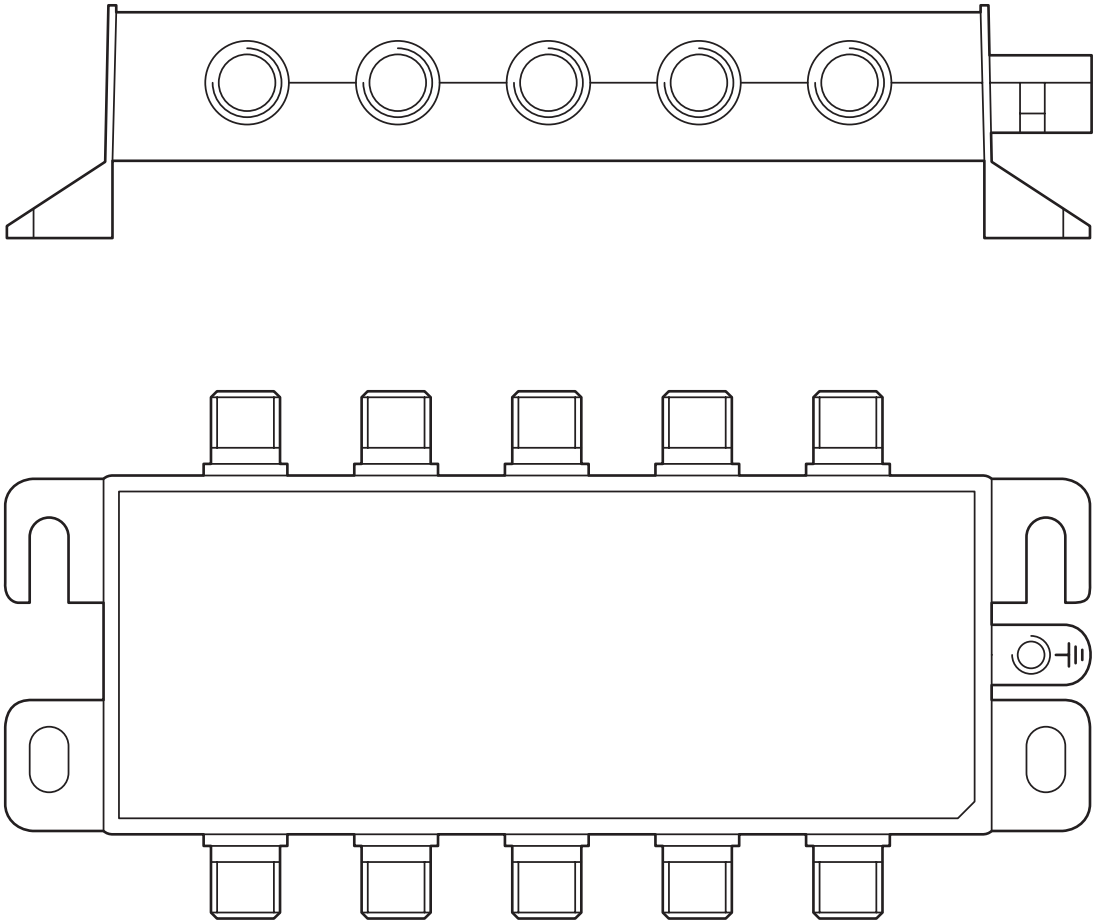
Mounting type	Screw mounting

Drawings

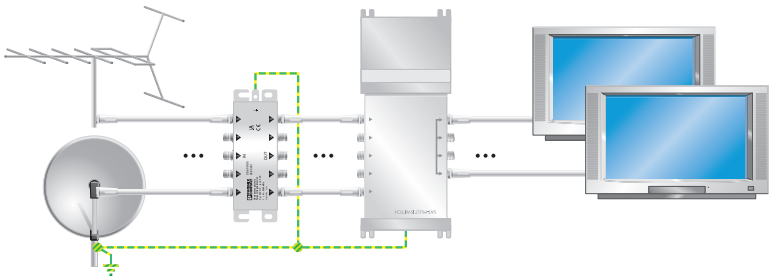
Dimensional drawing



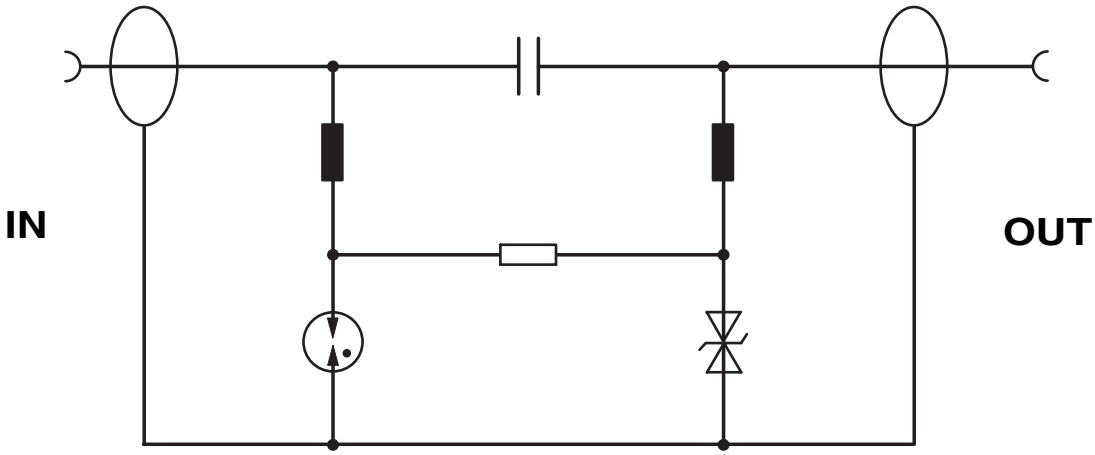
Product drawing



Application drawing



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27171504
ECLASS-15.0	27171504

ETIM

ETIM 10.0	EC001466

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	8c5983bc-fcc9-4ccc-a93d-78435e28f3a9

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