

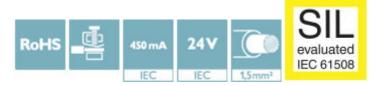
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Surge protection in the IP67 screw-on module for measuring sensors, direct mounting with 1/2" NPT outer thread, cable gland for the signal cable, two-stage protective circuit. HART-compatible.

Your advantages

✓ Arresters in hexagonal pipe with various outer threads



Key Commercial Data

Packing unit	1 pc
GTIN	4 0 4 6 3 5 6 0 9 1 6 5 7
GTIN	4046356091657
Weight per Piece (excluding packing)	363.840 g
Custom tariff number	85369010
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	33.5 mm
Width	33.5 mm
Depth	148 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Degree of protection	IP67

General



Technical data

General

Housing material	Zinc die-cast, surface bronzed and nickel-plated
Color	silver
Standards for cearances and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	direct screw connection
Туре	Screw-in module
Number of positions	3
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	24 V DC
Maximum continuous voltage U _C	40 V DC
	28 V AC
Rated current	450 mA (55 °C)
Operating effective current I_{C} at U_{C}	≤ 10 µA
Residual current I _{PE}	≤ 2 µA
Nominal discharge current I _n (8/20) µs (line-line)	10 kA
Nominal discharge current I _n (8/20) µs (line-earth)	10 kA (per path)
Nominal discharge current I _n (8/20) μs (shield-earth)	10 kA (optional)
Pulse discharge current I _{imp} (10/350) μs	1 kA
Total discharge current I _{total} (8/20) μs	20 kA
Total discharge current I _{total} (10/350) µs	2 kA
Max. discharge current I _{max} (8/20) μs maximum (line-line)	10 kA
Max. discharge current I _{max} (8/20) μs maximum (line-earth)	10 kA (per path)
Max. discharge current I _{max} (8/20) μs maximum (shield-earth)	10 kA
Nominal pulse current lan (10/1000) µs (line-line)	23 A
Nominal pulse current lan (10/1000) µs (line-earth)	100 A
Nominal pulse current lan (10/1000) µs (shield-earth)	100 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 55 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 450 V (Direct grounding)
Output voltage limitation at 1 kV/µs (shield-earth) spike	≤ 600 V (optional)
Output voltage limitation at 1 kV/µs (line-line) static	≤ 55 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 450 V (Direct grounding)
Residual voltage at I _n (line-line)	≤ 55 V
Residual voltage with Ian (10/1000) µs (line-line)	≤ 65 V
Voltage protection level U _p (line-line)	≤ 80 V (C2 - 10 kV / 5 kA)



Technical data

Protective circuit

Voltage protection level U _p (line-earth)	≤ 450 V (C2 - 10 kV / 5 kA)
Voltage protection level U _p (shield-earth)	≤ 600 V (C2 - 10 kV / 5 kA)
Voltage protection level U _p static (line-line)	≤ 50 V (C2 - 10 kV / 5 kA)
Response time t _A (line-line)	≤ 1 ns
Response time t _A (line-earth)	≤ 100 ns
Response time tA (shield-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.5 dB (≤ 1.5 MHz / 50 Ω)
	typ. 0.2 dB (\leq 300 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 6 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2 MHz
Resistance per path	2.2 Ω ±10 %
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)
Impulse durability (line-line)	C2 - 10 kV / 5 kA
	D1 - 1 kA
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 1 kA
Impulse durability (shield-earth)	C2 - 10 kV/5 kA
	D1 - 1 kA

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Connection line
Connection technology	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	6 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16

Standards and Regulations

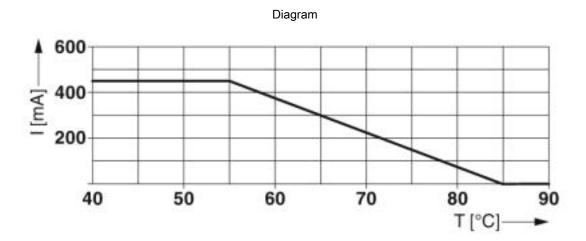
Standards/specifications	IEC 61643-21 2002

Environmental Product Compliance

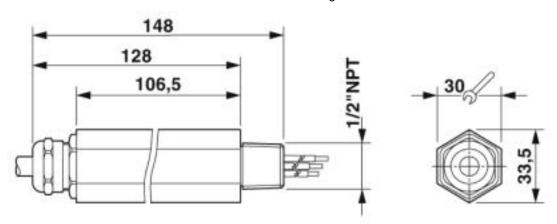
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

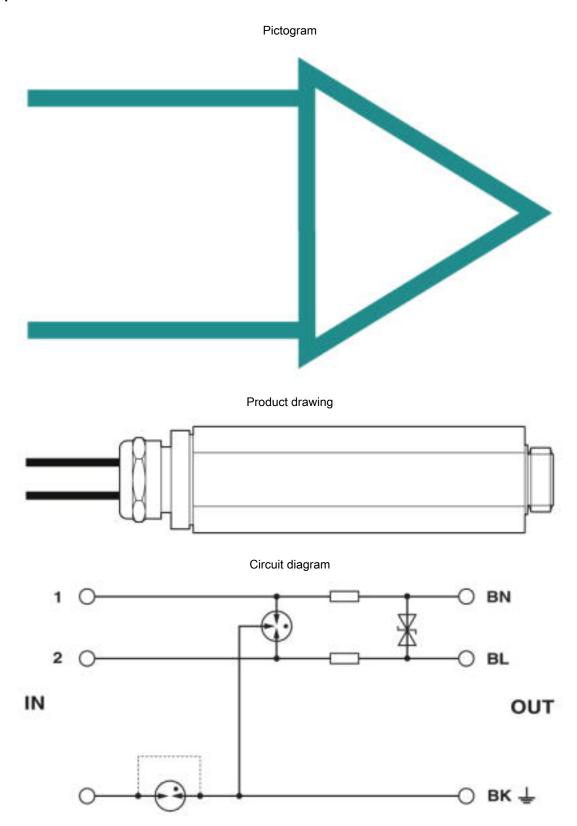




Dimensional drawing









Classifications

eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details



Approvals

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