

FLT-ISG-100-EX - Spark gap

2905579

<https://www.phoenixcontact.com/in/products/2905579>



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Isolating spark gap for the hazardous area with plastic sleeve and M10 connection thread screws. For indirect connection/grounding of operationally isolated system parts in the event of lightning.



Your advantages

- Use in harsh environments with robust design
- Suitable for potentially explosive areas with corresponding approvals
- Easy mounting with standardized connection technology

Commercial data

Item number	2905579
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1
Product key	CL1134
Catalog page	Page 102 (C-4-2019)
GTIN	4055626002446
Weight per piece (including packing)	290.5 g
Weight per piece (excluding packing)	285.4 g
Customs tariff number	73269098
Country of origin	DE

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Technical data

Notes

General

Note	Connection: screw (DIN 933), M10x25, wrench size: 17 mm, spring washer (DIN 7980), size: 10
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Product properties

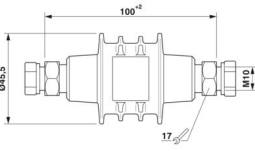
Product type	Spark gap
Lightning protection class	H
Type	Screw-on module
Surge protection fault message	none

Connection data

Flange

Connection method	Connection bolts
Screw thread	M10

Dimensions

Dimensional drawing	
Length	100 mm +2 mm

Housing

Diameter housing	45.50 mm
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Material specifications

Color	gray (RAL 7042)
Material	TPE-S
Material Connection bolts	CuZn/galv. Sn
Material	Niro A2
	FSt/galv. Zn

Protective circuit

Nominal discharge current I_n (8/20) μ s	100 kA
Lightning surge current I_{imp} (10/350) μ s	100 kA
Alternating voltage response U_{aw}	≤ 0.5 kV
Rated power-frequency withstand voltage U_{wAC}	250 V AC
Rated DC withstand voltage U_{wDC}	354 V DC
Rated impulse sparkover voltage $U_{r imp}$	≤ 1.25 kV

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Rated alternating discharge current	500 A / 0.2 s (at 50/60 Hz, max. discharge current in the event of external voltage influence at the installation location)
Response time t_A	≤ 100 ns

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (according to IEC 60529)
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	95 % (according to DIN ISO 60068-2-30 method 1)

Approvals

Conformity/Approvals

ATEX	Ex II 2 G Ex d IIC T6 Gb
	Ex II 2 D Ex tb IIIC T80 °C Db IP 66/67
IECEX	Ex d IIC T6 Gb
	Ex tb IIIC T80 °C Db IP66/67

Standards and regulations

Standards/specifications	EN 62561-3
Note	2017
Standards/specifications	IEC 60079-0
Note	2017
Standards/specifications	EN IEC 60079-0
Note	2018
Standards/specifications	IEC 60079-1
Note	2014
Standards/specifications	EN 60079-1
Note	2014
Standards/specifications	IEC 60079-31
Note	2013
Standards/specifications	EN 60079-31
Note	2014

Mounting

Mounting type	Screw mounting
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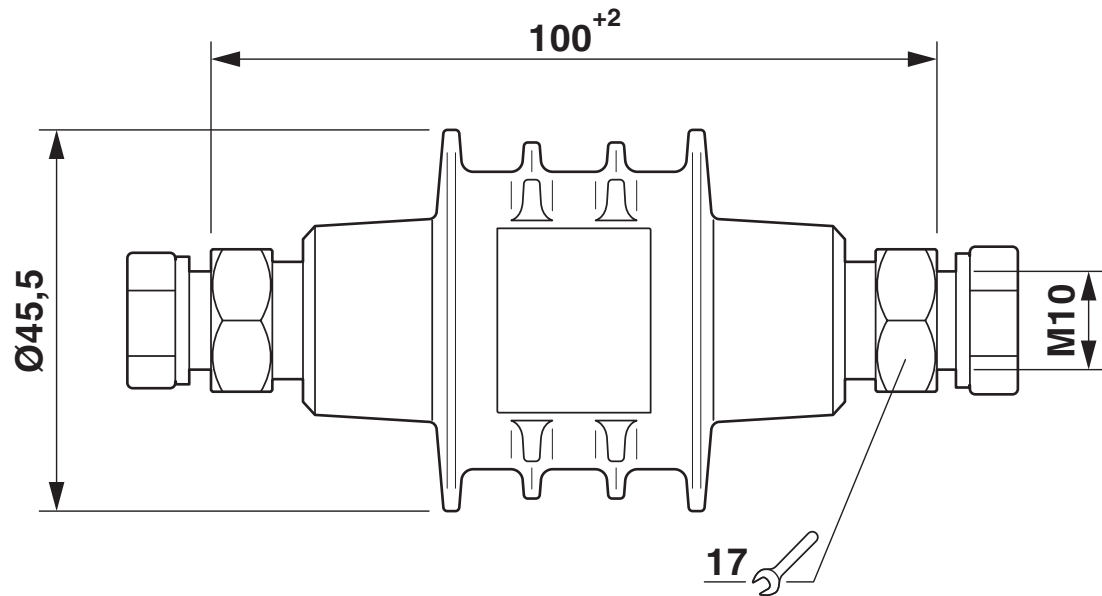
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Drawings

Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/2905579>



UL Listed

Approval ID: FILE E 482435



ATEX

Approval ID: DEKRA 14ATEX0050 X



EAC Ex

Approval ID: RU C-DE.**87.B.00420



IECEx

Approval ID: IECEx DEK 14.0012X



UL Listed

Approval ID: FILE E 495609

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Classifications

ECLASS

ECLASS-11.0	27140201
ECLASS-13.0	27170602

ETIM

ETIM 9.0	EC004476
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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	d8518c7b-2ba0-48e9-a9a9-e65453340a93

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Accessories

FLT-ISG-PL-11 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 11 mm.

FLT-ISG-PL-14 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 14 mm.

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FLT-ISG-PL-18 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 18 mm.

FLT-ISG-PL-22 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 22 mm.

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FLT-ISG-PL-26 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 26 mm.

FLT-ISG-PL-33 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 33 mm.

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FLT-ISG-PL-36 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 36 mm.



FLT-ISG-PL-39 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 39 mm.



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FLT-ISG-PL-42 - Fixing plate

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Plate for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 42 mm.



FLT-ISG-BR-11 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 11 mm.



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FLT-ISG-BR-14 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 14 mm.

FLT-ISG-BR-18 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 18 mm.

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FLT-ISG-BR-22 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 22 mm.

FLT-ISG-BR-26 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 26 mm.

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FLT-ISG-BR-30 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 30 mm.



FLT-ISG-BR-33 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 33 mm.



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FLT-ISG-BR-36 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 36 mm.



FLT-ISG-BR-39 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 39 mm.



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FLT-ISG-BR-42 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 42 mm.



FLT-ISG-BR-48 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 48 mm.



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FLT-ISG-BR-56 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 56 mm.



FLT-ISG-BR-62 - Fixing bracket

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Bracket for fixing the FLT-ISG-100-EX isolating spark gap to a flange, drill hole diameter of 62 mm.



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FLT-ISG-CA-100 - Connecting cable

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Connecting cable for FLT-ISG-100-EX, length 100 mm.

FLT-ISG-CA-200 - Connecting cable

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Connecting cable for FLT-ISG-100-EX, length 200 mm.

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FLT-ISG-CA-300 - Connecting cable

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Connecting cable for FLT-ISG-100-EX, length 300 mm.

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