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Part no.: 50109705 IS 218MM/2NC-8E0-S12 Inductive switch



Figure can vary

Contents

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Part no.: 50109705 – IS 218MM/2NC-8E0-S12 – Inductive switch

Technical data

Basic data	
Series	218
Typ. operating range limit S _n	8 mm
Operating range Sa	0 6.4 mm
Characteristic parameters	
, MTTF	900 years
Electrical data	
Protective circuit	Inductive protection Short circuit protected Polarity reversal protection
Performance data	
Supply voltage UB	10 30 V, DC
Residual ripple	0 20 %, From U _B
Open-circuit current	0 10 mA
Temperature drift, max. (in % of Sr)	10 %, Over the entire operating temperature range
Repeatability, max. (in % of S _r)	5 %, For U _B = 20 30 V DC, ambient temperature T_a = 23 °C ± 5 °C
Switching hysteresis	10 %
Outputs	
Number of digital switching outputs	1 Piece(s)
Switching outputs	
Voltage type	DC
Switching current, max.	200 mA
Switching voltage	Low: ≤2V
Residual current, max.	0.1 mA
Voltage drop	2 V
Switching output 1	
Switching element	Transistor, NPN
Switching principle	NC (normally closed)
Timing	
Switching frequency	1,500 Hz
Readiness delay	60 ms
Connection	
Number of connections	1 Piece(s)
Connection 1	
Type of connection	Connector
Function	Voltage supply Signal OUT
Thread size	M12
Туре	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

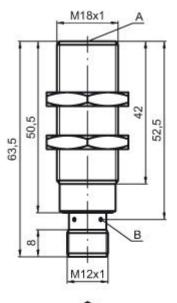
Part no.: 50109705 – IS 218MM/2NC-8E0-S12 – Inductive switch

Design Cylindrical Dimension (Q x L) 18 mm x 63.5 mm Dimension (Q x L) 18 mm x 63.5 mm Type of installation Embedded Housing material Metal, Nickel-plated brass Sensing face material Plastic. Polybutylene (PBT) Hev weight 51 g Housing color Red, RAL 2000 Silver Silver Operation and display Mounting thread Standard measuring plate 24 x 24 mm², Fe360 Operation and display Type of display LED Number of LEDs 1 Plece(s) Contricutions Contricutions Contricutions Contricutions Contricutions Contricutions Contricutions Contricutions Contricutions Contricutions Contricution Contricution IEC 6 1000.4 2 Hitte10 </th <th>Mechanical data</th> <th></th>	Mechanical data	
Thread size M18 x 1 mm Dimension (Q x L) 18 mm x 63.5 mm Type of installation Embedded Housing material Metal, Nickel-plated brass Sensing face material Plastic, Polybutylene (PBT) Net weight 51 g Housing color Red, RAL 3000 Silver Type of fastening Mounting thread Standard measuring plate 24 x 24 mm², Fe360 Operation and display UED Number of LEDs Depretion Depretion Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection IP 67 Protection class II Certifications Correction faces Correction faces IEC 61000-4-2 IEC 61000-4-2 IEC 61000-4-3 Standards applied Correction factors		Cylindrical
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Dimensioned drawings

All dimensions in millimeters

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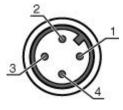


A Active surface B Yellow LED

Electrical connection

Connection 1	
Type of connection	Connector
Function	Voltage supply Signal OUT
Thread size	M12
Туре	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

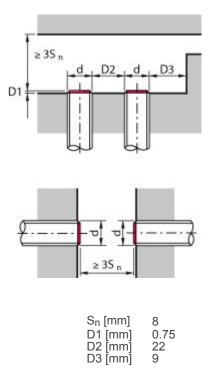
Pin	Pin assignment
1	V+
2	OUT 1
3	GND
4	n.c.



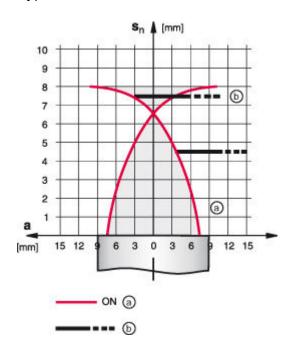
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Diagrams

Embedded installation



Types with $S_n = 8.0 \text{ mm}$



a Inductive switchb Standard measuring plate

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Operation and display

LEDs

LED	Display	Meaning
1	Yellow, continuous light	Switching output/switching state

Part number code

Part designation: ISX YYY ZZ/AAA.BB-CCC-DDD-DDD

ISX	Operating principle / construction: IS: inductive switch, standard design ISS: inductive switch, short construction
ΥΥΥ	Series: 203: series with Ø 3 mm 204: series with Ø 4 mm 205: series with M5 x 0.5 external thread 206: series with Ø 6.5 mm 208: series with M12 x 1 external thread 212: series with M12 x 1 external thread 218: series with M18 x 1 external thread 230: series with M30 x 1.5 external thread 240: series in cubic design 244: series in cubic design 255: series with 5 x 5 mm² cross section 288: series with 8 x 8 mm² cross section
ZZ	Housing / thread: MM: metal housing (active surface: plastic) / metric thread FM: full-metal housing (active surface: stainless steel AISI 316L) / metric thread MP: metal housing (active surface: plastic) / smooth (without thread)
AAA	Output current / supply: 4NO: PNP transistor, NO contact 4NC: PNP transistor, NC contact 2NO: NPN transistor, NO contact 2NC: NPN transistor, NC contact 1NO: relay, NO contact / AC/DC 1NC: relay, NC contact / AC/DC 44: 2 PNP transistor switching outputs, antivalent (NO + NC)
BB	Special equipment: n/a: no special equipment 5F: food version 5: housing material V2A (1.4305, AISI 303)
CCC	Measurement range / type of installation: 1E0: typ. range limit 1.0 mm / embedded installation 1E5: typ. range limit 1.5 mm / embedded installation 2E0: typ. range limit 2.0 mm / embedded installation 3E0: typ. range limit 3.0 mm / embedded installation 4E0: typ. range limit 5.0 mm / embedded installation 5E0: typ. range limit 6.0 mm / embedded installation 8E0: typ. range limit 8.0 mm / embedded installation 10E: typ. range limit 10.0 mm / embedded installation 10E: typ. range limit 10.0 mm / embedded installation 20E: typ. range limit 2.0 mm / non-embedded installation 20F: typ. range limit 2.0 mm / non-embedded installation 21S: typ. range limit 2.0 mm / non-embedded installation 21S: typ. range limit 1.0 mm / non-embedded installation 12N: typ. range limit 1.0 mm / non-embedded installation 12N: typ. range limit 1.0 mm / non-embedded installation 12N: typ. range limit 1.0 mm / non-embedded installation 25N: typ. range limit 1.0 mm / non-embedded installation 25N: typ. range limit 2.0 mm / non-embedded installation 25N: typ. range limit 2.0 mm / non-embedded installation 25N: typ. range limit 4.0 mm / non-embedded installation
DDD	Electrical connection: n/a: cable, PVC, standard length 2000 mm S12: M12 connector, 4-pin, axial 200-S12: cable, PVC, length 200 mm with M12 connector, 4-pin, axial 200-S8.3: cable, PVC, length 200 mm with M8 connector, 3-pin, axial S8.3: M8 connector, 3-pin, axial 005-S8.3: cable, PVC, length 500 mm with M8 connector, 3-pin, axial

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Note

A list with all available device types can be found on the Leuze electronic website at www.leuze.com.

Notes

Observe intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

For UL applications:

• For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).

Accessories

Connection technology - Connection cables

Part no.	Designation	Article	Description
50130654	KD U-M12-4A- P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50130657	KD U-M12-4A- P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
50130648	KD U-M12-4A- V1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
50130652	KD U-M12-4A- V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
50130692	KD U-M12-4W- P1-020	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR

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Part no.	Designation	Article	Description
50130694	KD U-M12-4W- P1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
50130688	KD U-M12-4W- V1-020	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
50130690	KD U-M12-4W- V1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
P	50113548	BT D18M.5	Mounting bracket	Diameter, inner: 18 mm Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Stainless steel

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
Q.	50117490	BTU D18M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

Mounting technology - Other

	Part no.	Designation	Article	Description
ant the	50132729	AC D18M-CS	Clamp	Contains: 2x M24 mounting nut Diameter, inner: 18 mm Design of mounting device: Mounting clamp Fastening, at system: Screw type, Through-hole mounting Mounting bracket, at device: insertable, Clampable with limit stop Type of mounting device: Clampable, With limit stop Material: Metal
	50111501	MC 018K	Clamp	Diameter, inner: 18 mm Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Rigid Material: Plastic

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Part no.	Designation	Article	Description
50111502	MC 018K-LS		Diameter, inner: 18 mm Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable with limit stop Type of mounting device: Rigid Material: Plastic