ISS 208 (short construction)

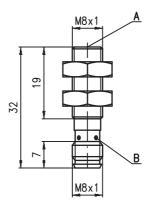
Inductive switches



M8 2mm 10 - 30 V □C 5 kHz embedded

- Slim and short cylindrical metal housing M8
- Stainless steel housing
- Built-in short circuit protection, inductive protection and polarity reversal protection
- LED for switching state visible from 360°

Dimensioned drawing







Tightening torque of the fastening nuts < 10Nm!

- A Active surface
- B Yellow indicator diode

Electrical connection

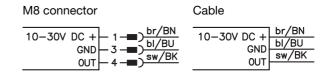


IEC 60947... IP 67/

Accessories:

(available separately)

- M8 connectors (D M8...)
- Ready-made cables (K-D ...)
- Mounting clamp (MC 008...)



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Specifications

General specifications

Type of installation Typ. operating range limit S_n Operating range Sa

Electrical data

Operating voltage U_B 1) Residual ripple σ Output current IL Open-circuit current I₀ Residual current I,

Switching output/function

Voltage drop U_d Hysteresis H of S Temperature drift of Sr Repeatability

Timing

Switching frequency f Delay before start-up

Indicators

Yellow LED (visible from 360°)

Mechanical data

Housing Standard surface plate Active surface Weight (M8 plug/cable) Connection type

Environmental data

Ambient temperature Protection class Protective circuit 4) Standards applied

Electromagnetic compatibility

IS 208...-2E0...

2.0mm 0 ... 1.6mm

 $10 \dots 30$ VDC ≤ 20 % of U_B ≤ 200 mA $\leq 10 mA$ $\leq 100 \mu A$

PNP transistor, make-contact (NO) PNP transistor, break-contact (NC) .../4NO... .../4NC... .../2NO... NPN transistor, make-contact (NO) .../2NC... NPN transistor, break-contact (NC)

 $\leq 10 \% \frac{2}{3}$ $\leq 4.7 \% \frac{3}{3}$

5kHz

< 2 V

≤ 50 ms

≤ 10%

≤5%

switching state

stainless steel 8 x 8mm², Fe360 PA12

approx. 8g/approx. 70g

M8 connector, 3-pin or cable: 2m, PVC, 3 x 0.14mm², Ø 3.5mm

-25°C ... +70°C IP 67 1, 2, 3 IEC/EN 60947-5-2

IEC 60255-5 1kV

IEC 61000-4-2 Level 3 air 8kV (ESD) Level 3 10V/m (RFI) Level 3 2kV (Burst) IEC 61000-4-3 IEC 61000-4-4

1) Observe the safety regulations and installation instructions regarding power supply and wiring; for UL applications: only for use in "Class 2" circuits acc. to NEC

Over the entire operating temperature range

For $U_B = 20 \dots 30 \text{VDC}$, ambient temperature $T_a = 23 \text{°C} \pm 5 \text{°C}$

1=polarity reversal protection, 2=short circuit protection, 3=inductive protection for all outputs

Order guide

The sensors listed here are preferred types; current information at www.leuze.com.

Designation Part No.

ISS 208 MM/4N0-2E0-S8.3 50117201 $S_n = 2mm$

Tables

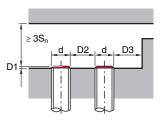
Reduction factors:

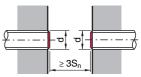
for $S_n = 2.0 \, \text{mn}$ Steel Fe360 Copper 0.25 Aluminum 0.25 Brass 0.35 Stainless steel

0.65

Mounting

Embedded installation:

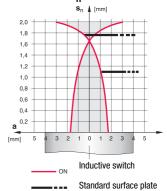




	Ferroma	Ferromagnetic and non-ferromagnetic materials			
Ī	S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]	
Ī	2.0	0	4.0	2.0	

Diagrams

Models with $S_n = 2.0$ mm

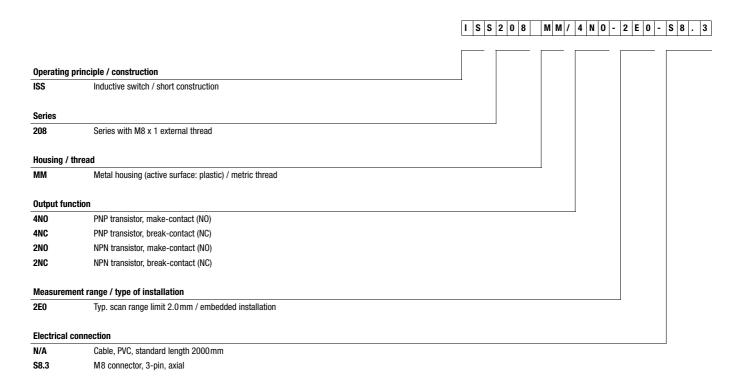


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Inductive switches

Part number code



Remarks

Approved purpose:

This product may only be used by qualified personnel and must only be used for the approved purpose. This sensor is not a safety sensor and is not to be used for the protection of persons.

△ Leuze electronic

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