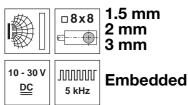
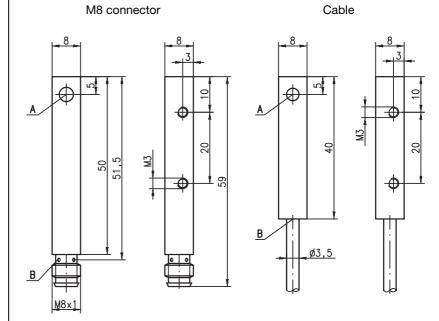
IS 288 Inductive switches

en 01-2010/02 50112988



- Slim and short 8x8mm cubical metal housing
- Nickel-plated brass housing
- Built-in short circuit protection, inductive protection and polarity reversal protection
- LED for switching state

Dimensioned drawing



- A Active surface
- B Yellow indicator diode

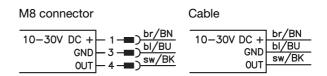
Electrical connection



Accessories:

(available separately)

- M8 connectors (D M8...)
- Ready-made cables (K-D ...)



IS 288

Specifications

General specifications Type of installation	IS 2881E5		IS 2883E0
Typ. operating range limit S _n Operating range S _a	1.5 mm 0 1.2 mm	2.0mm	3.0mm 0 2.4mm
	10 30VDC ≤ 20% of U _B ≤ 200mA ≤ 10mA ≤ 100µA PNP transistor, brea NPN transistor, mak NPN transistor, brea	ak-contact (NC) ke-contact (NO)	
Voltage drop U _d Hysteresis H of S _r Temperature drift of S _r Repeatability	$\leq 2V$ $\leq 5\%$ $\leq 10\% ^{2}$ $\leq 5\% ^{3}$	≤ 10 % ≤ 2 %	≤ 10 % ≤ 5 %
Timing Switching frequency f Delay before start-up	5kHz ≤ 10ms	3kHz ≤ 10ms	1kHz ≤ 50ms
Indicators Yellow LED	switching state		
Mechanical data Housing Standard surface plate Active surface Weight (M8 plug/cable)	brass nickel-plated 8 x 8mm², Fe360 PBTP approx. 15g/ approx. 45g	·	9 x 9mm², Fe360
Connection type	M8 connector, 3-pin cable: 2m, PVC, 3 x 0.14mm², Ø 3.5mm		
Environmental data Ambient temperature Protection class Protective circuit 4)	-25°C +70°C IP 67		

Protective circuit 4) Standards applied Electromagnetic compatibility

1kV

1, 2, 3 IEC/EN 60947-5-2 IEC 60255-5 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 Level 3 air 8kV (ESD) Level 3 10V/m (RFI) Level 3 2kV (Burst)

- 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 $T_a = 23 \text{ °C} \pm 5 \text{ °C}$
- 4) 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.
S _n = 1.5 mm	IS 288 MP/4N0-1E5 IS 288 MP/4N0-1E5-S8.3	50112885 50112886
S _n = 2mm	IS 288 MP/4N0-2E0 IS 288 MP/4N0-2E0-S8.3	50112887 50112888
S _n = 3 mm	IS 288 MP/4N0-3E0 IS 288 MP/4N0-3E0-S8.3	50112889 50112890

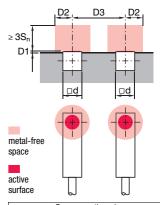
Tables

for S _n = 1.5mm		for $S_n = 2.0$ mm		
Steel Fe360	1	Steel Fe360	1	
Copper	0.50	Copper	0.50	
Aluminum	0.50	Aluminum	0.50	
Brass	0.55	Brass	0.55	
Stainless steel	0.80	Stainless steel	0.80	

.o. on – o.o			
Steel Fe360	1		
Copper	0.27		
Aluminum	0.36		
Brass	0.45		
Stainless steel	0.77		

Mounting

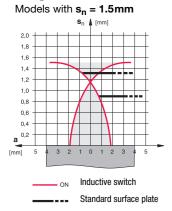
Embedded installation:

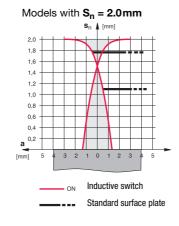


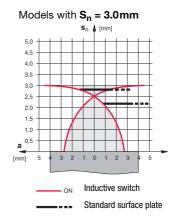
	<u>Ferromagnetic and</u> <u>non-ferromagnetic materials</u>			
Ī	S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]
Ī	1.5	0	5.5	10
Ī	2.0	0	5	10
I	3.0	1	6	16

IS 288...E... - 01 2010/02 IS 288 Inductive switches

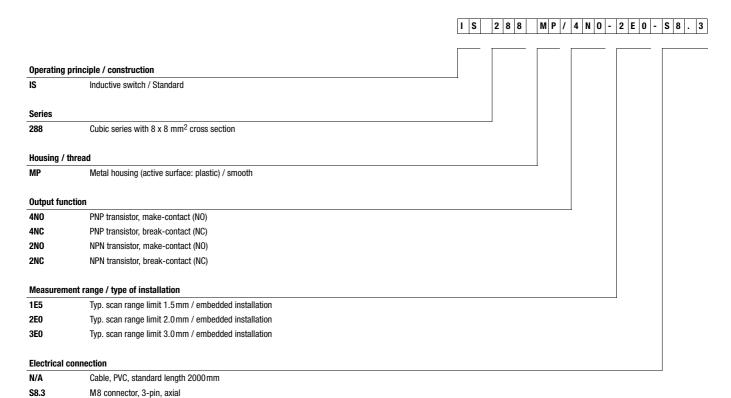
Diagrams







Type key



Remarks

200-S8.3

Approved purpose:

Cable, PVC, length 200 mm with M8 connector, 3-pin, axial

The inductive switches are electronic sensors for the inductive, contactless detection of objects. 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.

IS 288

IS 288...E... - 01 2010/02