IS 244

Inductive switches

B

Dimensioned drawing

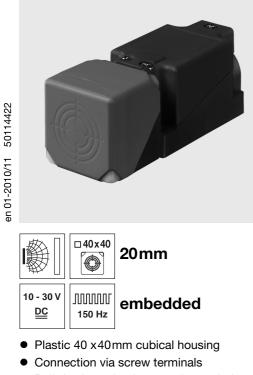
В

7.3

5,3

M

ø5.



- Built-in short circuit protection, polarity reversal protection
- LED for switching state

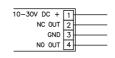


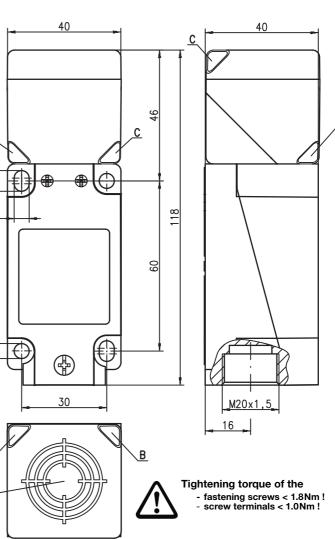
Leuze electronic GmbH + Co. KG			
info@leuze.de •	www.leuze.com		

A Active surface

B Yellow indicator diodeC Green indicator diode

Electrical connection





▲ Leuze electronic

IS 244

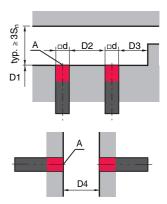
Tables

Reduct	tion factors

for S _n = 40.0mm	
Steel Fe360	1
Copper	0.31
Aluminum	0.33
Brass	0.38
Stainless steel	0.74

Mounting

Embedded installation:



A: active surface

Ferromagnetic and non-ferromagnetic materials				
S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]
20	0	40	5	50

Remarks

Approved purpose: 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.

Type of installation embedded installation Typ. operating range limit S_n 20.0mm Operating range Sa 0 ... 16.2mm **Electrical data** $10 \dots 30$ VDC $\leq 20\%$ of U_B Operating voltage U_B¹⁾ Residual ripple o Output current IL ≤ 200 mA Open-circuit current I0 ≤ 20 mA < 500 µA Residual current I Switching output/function .../44... PNP transistor, make-contact + break-contact (NO + NC), complementary .../22... NPN transistor, make-contact + break-contact (NO + NC), complementary Voltage drop U_d Hysteresis H of S ≤2V ± 10% ²) Repeatability of S Timing Switching frequency f ≤ 150Hz Delay before start-up ≤ 300ms Indicators Yellow LED (visible from 360°) switching state Mechanical data Housing PA, metal Standard measuring plate 60 x 60 mm², Fe360 Active surface PA approx. 225g M20 terminal compartment, wire cross section≤ 2.5mm² Weight (M12 plug/cable) Connection type **Environmental data** -25°C ... +85°C IP 67, IP 69K Ambient temperature Protection class Protective circuit 3) 1, 2 IEC/EN 60947-5-2 Standards applied IEC 61000-4-2 Electromagnetic compatibility Air 8kV (ESD) IEC 61000-4-3 10V/m (RFI) IEC 61000-4-4 2kV (Burst)

IS 244...-20E...

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 For U_B ambient temperature $T_a = 23^{\circ}C \pm 5^{\circ}C$ 1=polarity reversal protection, 2=short-circuit protection, for all outputs

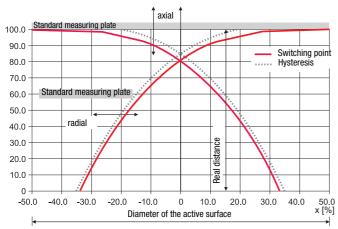
2)

Specifications

General specifications

3)

Typical approach curve:



Order guide

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

	Designation	Part No.
S _n = 20mm	IS 244 PP/44-20E-TB.4	50114213
	IS 244 PP/22-20E-TB.4	50114211