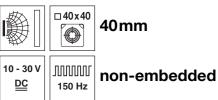
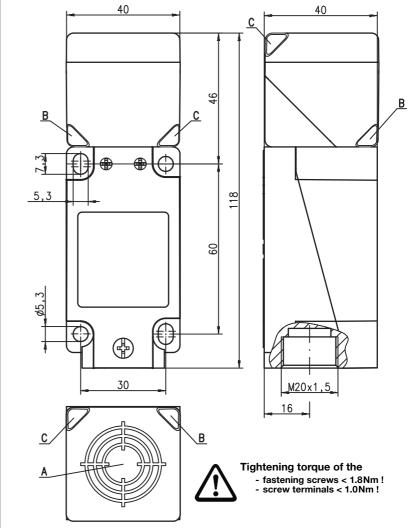
IS 244 Inductive switches

Dimensioned drawing



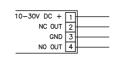


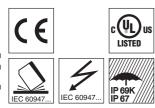
- Plastic 40 x40mm cubical housing
- Connection via screw terminals
- Built-in short circuit protection, polarity reversal protection
- LED for switching state



- A Active surface
- B Yellow indicator diode
- C Green indicator diode

Electrical connection





Accessories:

(available separately)

IS 244

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 Repeatability of S

Timing

Switching frequency f Delay before start-up

Indicators

Yellow LED (visible from 360°)

Mechanical data

Housing Standard measuring plate Active surface Weight (M12 plug/cable) Connection type

Environmental data

Ambient temperature Protection class Protective circuit 3) Standards applied

Electromagnetic compatibility

IS 244...-40N...

non-embedded installation 40.0mm

0 ... 32.4mm

10 ... 30VDC ≤ 20 % of U_B ≤ 200 mA ≤ 20 mA < 500 µA

.../44... PNP transistor, make-contact + break-contact (NO + NC),

complementary

.../22... NPN transistor, make-contact + break-contact (NO + NC),

complementary ≤ 2 V typ. 5% ≤ 10% ²⁾

< 150Hz ≤ 300 ms

switching state

PA, metal

120 x 120 mm², Fe360

PA approx. 225g

M20 terminal compartment, wire cross section≤ 2.5 mm²

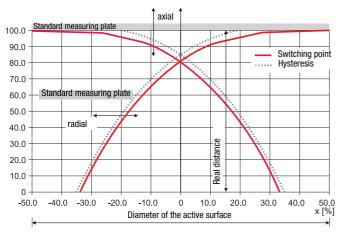
-25°C ... +85°C IP 67, IP 69K 1, 2 IEC/EN 60947-5-2

IEC 61000-4-2

Air 8kV (ESD) IEC 61000-4-3 10V/m (RFI) IEC 61000-4-4 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 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

Typical approach curve:



Order guide

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

	Designation	Part No.
S _n = 40 mm	IS 244 PP/44-40N-TB.4 IS 244 PP/22-40N-TB.4	50114214 50114212
	10 244 11/22 40N 1D.4	30114212

Tables

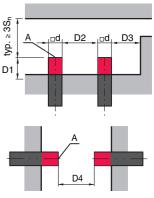
Reduction factors:

for $S_n = 40.0 \, \text{mm}$

Steel Fe360	1
Copper	0.30
Aluminum	0.31
Brass	0.39
Stainless steel	0.74

Mounting

Non-embedded installation:



A: active surface

I	j	Ferromagnetic and non-ferromagnetic materials					
I	S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]		
Ī	40	40	160	42	300		

Remarks

Approved purpose:

The inductive switches are electronic sensors for the inductive, contactless detection of objects. This product may only be used by qualified person-

nel 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.

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