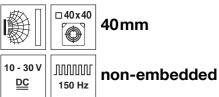
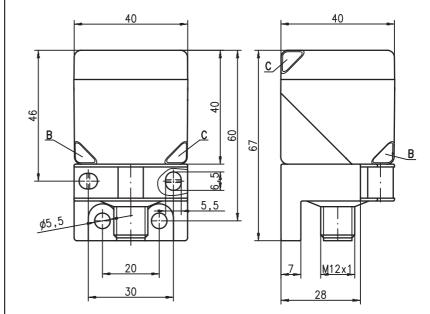
# ISS 244 (short construction)

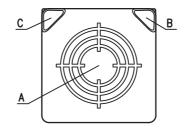
## **Inductive switches**





- Short 40 x40mm cubical housing
- Light plastic housing
- Built-in short circuit protection, polarity reversal protection
- LED for switching state





**Dimensioned drawing** 

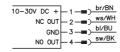


Tightening torque of the fastening screws < 1.8Nm!



- Active surface
- Yellow indicator diode
- Green indicator diode

### **Electrical connection**





# **Accessories:**

(available separately)

- M12 connectors (KD ...)
- Ready-made cables (K-D ...)

# ISS 244 (short construction)

# **Specifications**

#### **General specifications**

Type of installation Typ. operating range limit S<sub>n</sub> Operating range Sa

#### **Electrical data**

Operating voltage U<sub>B</sub> 1) Residual ripple σ Output current IL Open-circuit current I<sub>0</sub> Residual current I Switching output/function

Voltage drop U<sub>d</sub> 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

#### ISS 244...-40N...

non-embedded installation 40.0mm

0 ... 32.4mm

10 ... 30VDC ≤ 20 % of U<sub>B</sub> ≤ 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% <sup>2)</sup>

< 150Hz ≤ 300 ms

switching state

120 x 120 mm<sup>2</sup>, Fe360

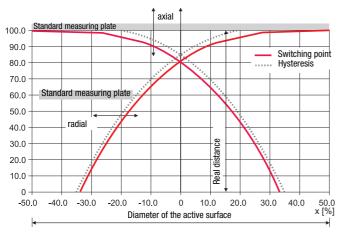
approx. 130g M12 connector

-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.
<b>S</b> <sub>n</sub> = 40mm	ISS 244 PP/44-40N-S12	50114218
	ISS 244 PP/22-40N-S12	50114216

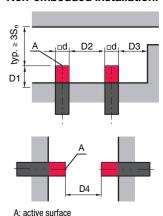
### **Tables**

### Reduction factors:

<b> </b>	
Steel Fe360	1
Copper	0.30
Aluminum	0.31
Brass	0.39
Stainless steel	0.74

### Mounting

#### Non-embedded installation:



٠	F						
		Ferromagnetic and non-ferromagnetic materials					
	Sn	D4	DO.	D2	D4		
			D2	13.5	D4		
	[mm]	D1 [mm]	[mm]	D3 [mm]	D4 [mm]		

### 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.

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