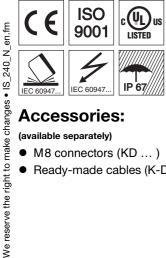
▲ Leuze electronic

Inductive switches

IS 240

□ 12x40 8mm \$ 10 - 30 V MMM non-embedded ₽C 1400 Hz

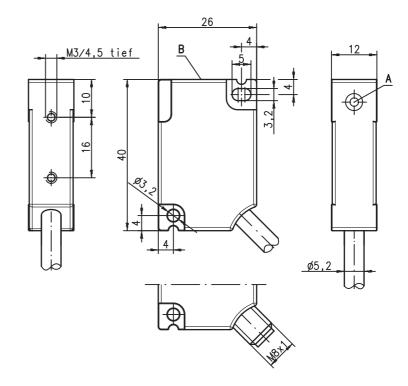
- Plastic 40 x12mm cubical housing
- Built-in short circuit protection, polarity reversal protection
- LED for switching state



Accessories:

(available separately)

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





Tightening torque of the fastening screws < 1.1 Nm !

Active surface Α

В Yellow indicator diode

Electrical connection

Dimensioned drawing

10-30V DC + 1 NC OUT 2 GND - 3 NO OUT 4	br/BN	10-30V DC +	br/BN
	ws/WH	NC OUT	ws/WH bi/BU
	bi/BU	GND	Ы/BU
	sw/BK	NO OUT	sw/BK
110 001	/	110 001	

en 01-2010/11 50114421

▲ Leuze electronic

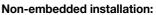
IS 240

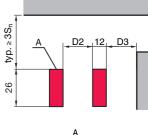
Tables

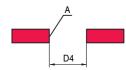
Reduct	tion factors:
4 0	00.0

for S _n = 20.0mm	
Steel Fe360	1
Copper	0.45
Aluminum	0.40
Brass	0.55
Stainless steel	0.80

Mounting







A: active surface

Ferromagnetic and non-ferromagnetic materials				
S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]
4.0	•	10	8	25

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.

$10 \hdots 30 VDC \leq 20 \ensuremath{\,^{\circ}}$ of U_B Operating voltage U_B¹⁾ ≤ 250mA ≤ 20 mA Open-circuit current I0 < 10uA Switching output/function .../44... PNP transistor, make-contact + break-contact (NO + NC), complementary .../22... NPN transistor, make-contact + break-contact (NO + NC), complementary ≤2.5॑V ±2.01 typ. 5% ≤ 10% ²⁾ Switching frequency f ≤ 1400 Hz Delay before start-up ≤ 300ms switching state PA Standard measuring plate 12 x 12mm², Fe360 PA Weight (M8 plug/cable) approx. 18g/108g M8 connector, cable: 2m, PVC, 4 x 0.5mm², Ø 5.2mm **Environmental data** -25°C ... +70°C Ambient temperature IP 67 1, 2 IEC/EN 60947-5-2 Electromagnetic compatibility IEC 61000-4-2 Air 8kV (ESD)

IEC 61000-4-3

IEC 61000-4-4

10V/m (RFI)

2kV (Burst)

IS 240...-8N0...

8.0mm

0 ... 6.4mm

non-embedded installation

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 2) For U_B ambient temperature $T_a = 23^{\circ}C \pm 5^{\circ}C$ 3) 1=polarity reversal protection, 2=short-circuit protection, for all outputs

Typical approach curve:

Specifications

Type of installation

Operating range Sa

Electrical data

Residual ripple o Output current IL

Residual current I

Voltage drop U_d Hysteresis H of S

Repeatability of S

Mechanical data Housing

Active surface

Connection type

Protection class

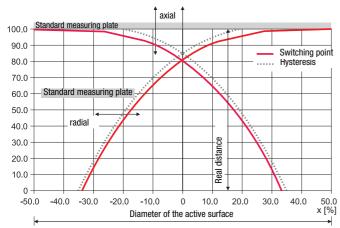
Protective circuit 3) Standards applied

Timing

Indicators Yellow LED

General specifications

Typ. operating range limit S_n



Order guide

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

	Designation	Part No.
S _n = 8.0 mm	IS 240 PP/44-8N0	50114209
	IS 240 PP/44-8N0-S8.4	50114210
	IS 240 PP/22-8N0	50114205
	IS 240 PP/22-8N0-S8.4	50114206