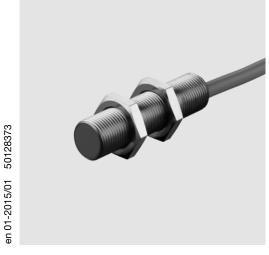
IS 212 2-wire UC standard design

Inductive switches





20-265 V



3000 Hz DC 25 Hz AC

Embedded

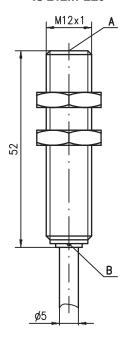
Slim and short cylindrical metal housing

2_{mm}

- Chromium-plated brass housing
- Built-in short circuit protection, inductive protection and polarity reversal protection
- LED for switching state visible from 360°
- Non-polarized 2-wire design
- AC/DC supply voltage

Dimensioned drawing

IS 212...-2E0







Tightening torque of the fastening nuts < 10Nm!

- Active surface
- Yellow indicator diode

Electrical connection





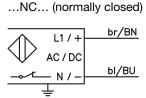




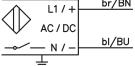


(available separately)

• Mounting clamp (MC 012...)



...NO... (normally open) br/BN



IS 212 2-wire UC standard design

Specifications

General specificationsIS 212...-2E0Type of installationembedded installationTyp. operating range limit Sp2.0mm

Typ. operating range limit S_n Operating range S_a

Electrical data

Operating voltage U_B 1)
Residual ripple σ
Output current I_L
Open-circuit current I₀

Minimum load current I_m
Switching output/function

Voltage drop U_d Hysteresis H of S_r Temperature drift of S_r Repeatability

Timing

Switching frequency f

Delay before start-up **Indicators**

Yellow LED (visible from 360°)

Mechanical data

Housing Standard measuring plate Active surface

Weight
Connection type
Environmental data

Ambient temperature Degree of protection Protective circuit ⁴⁾

Standards applied Electromagnetic compatibility -25°C ... +70°C IP 67 1, 2, 3 IEC/EN 60947-5-2

PBTP

0 ... 1.6mm

relay, NC contact relay, NO contact

≤ 6 V at 200 mA ≤ 20 % ≤ 10 % ²⁾

 $\leq 0.5 \, \text{mm}^{3)}$

AC: 25Hz DC: 3000Hz

switching state

chromium-plated brass

12 x 12 mm², Fe360

≤ 10ms

≤1mA 2mA

.../1NC.3... .../1NO.3... $20 \dots 265$ VAC / $10 \dots 320$ VDC $\leq 20\%$ of $U_B \leq 200$ mA AC/DC

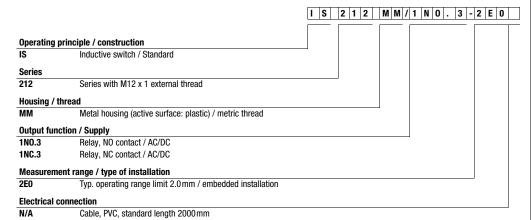
IEC/EN 60947-5-2 IEC 60947-5-2 5kV IEC 61000-4-2 Leve

IEC 61000-4-2 Level 2 air 8 kV (ESD)
IEC 61000-4-3 Level 3 10 V/m (RFI)
IEC 61000-4-4 Level 3 2 kV (Burst)

approx. 95g cable: 2m, PVC, 2 x 0.34mm², Ø 5.0mm

- 1) Observe the safety regulations and installation instructions regarding power supply and wiring.
- 2) Over the entire operating temperature range
- 3) 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

Part number code



Order guide

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

	Designation	Part no.
S _n = 2mm	IS 212 MM/1NC.3-2E0	50128149
	IS 212 MM/1N0.3-2E0	50128150
	Additional types on request	

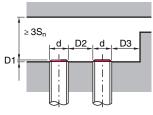
Tables

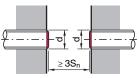
Reduction factors:

101 3 _n = 2.0111111	
Steel Fe360	1
Copper	0.20
Aluminum	0.30
Brass	0.40
Stainless steel	0.80

Mounting

Embedded installation:

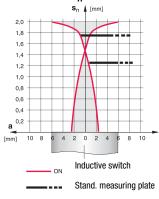




Ferromagnetic and non-ferromagnetic materials					
S _n [n	nm]	D1 [mm]	D2 [mm]	D3 [mm]	
2.0	0	0	6.0	2.0	

Diagrams

Models with $S_n = 2.0$ mm



Remarks

Operate in accordance with intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
 Only use the product in accor-
- Only use the product in accordance with the intended use.

IS 212MM/1N...E... - 01 2015/01