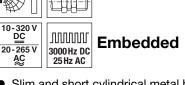
### IS 212 2-wire UC standard design

# **Inductive switches**

## **Dimensioned drawing**

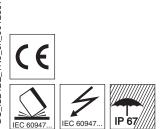




Slim and short cylindrical metal housing • M12

2mm

- 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



### Accessories:

(available separately)

Mounting clamp (MC 012...)





ø5

IS 212...-2E0

M12x1

52

А

В



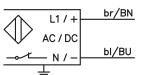
Tightening torque of the fastening nuts < 10Nm !

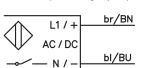
Α Active surface

В Yellow indicator diode

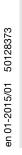
# **Electrical connection**

...NC... (normally closed)





...NO... (normally open)



We reserve the right to make changes • DS\_IS212E\_1N3\_en\_50128373.fm

# ▲ Leuze electronic

# IS 212 2-wire UC standard design

### **Specifications**

#### **General specifications** Type of installation Typ. operating range limit Sn Operating range Sa **Electrical data** Operating voltage U<sub>B</sub><sup>1)</sup> Residual ripple o Output current IL Open-circuit current I<sub>0</sub> Minimum load current I .../1NC.3... .../1NO.3... Switching output/function Voltage drop U<sub>d</sub> Hysteresis H of S Témperature drift of Sr 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

IS 212...-2E0 embedded installation 2.0mm 0 ... 1.6mm 20 ... 265VAC / 10 ... 320VDC  $\leq$  20% of U<sub>B</sub>  $\leq$  200mA AC/DC  $\leq$  1mA 2mA relay, NC contact relay, NC contact relay, NO contact  $\leq$  6V at 200mA  $\leq$  20%  $\leq$  10% <sup>2</sup>)  $\leq$  0.5mm <sup>3</sup>) AC: 25Hz DC: 3000Hz  $\leq$  10ms

switching state

chromium-plated brass 12 x 12mm<sup>2</sup>, Fe360 PBTP approx. 95g cable: 2m, PVC, 2 x 0.34mm<sup>2</sup>, Ø 5.0mm

-25°C ... +70°C IP 67 1, 2, 3 IEC/EN 60947-5-2 IEC 60947-5-2 5kV IEC 61000-4-2 Level 2 air 8kV (ESD) IEC 61000-4-3 Level 3 10V/m (RFI) IEC 61000-4-4 Level 3 2kV (Burst)

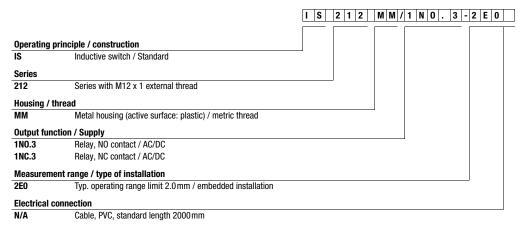
1) Observe the safety regulations and installation instructions regarding power supply and wiring.

2) Over the entire operating temperature range

3) For U<sub>B</sub> = 20 ... 30VDC, ambient temperature  $T_a = 23 \degree C \pm 5 \degree C$ 

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.

S<sub>n</sub> = 2mm

 Designation
 Part no.

 IS 212 MM/1NC.3-2E0
 50128149

 IS 212 MM/1N0.3-2E0
 50128150

Additional types on request

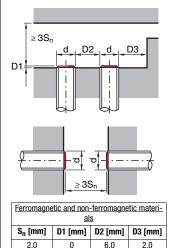
### Tables

led	luct	ion	factors:	
	-	-	-	

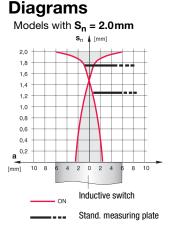
for S <sub>n</sub> = 2.0mm			
Steel Fe360	1		
Copper	0.20		
Aluminum	0.30		
Brass	0.40		
Stainless steel	0.80		

### Mounting

**Embedded installation:** 



# \_.



### 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.
- operation by competent persons. ♦ Only use the product in accordance with the intended use.