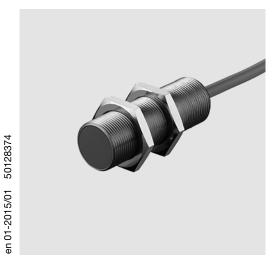
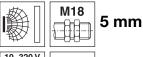
# IS 218 2-wire UC standard design

## **Inductive switches**





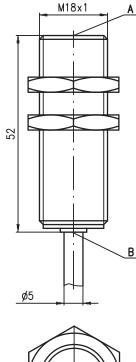
10-320 V DC 20-265 V AC 1500 Hz DC 25 Hz AC

**Embedded** 

- Slim and short cylindrical metal housing M8
- 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 218...-5E0







Tightening torque of the fastening nuts < 20 Nm!

- A Active surface
- B Yellow indicator diode

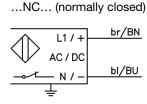
# **Electrical connection**

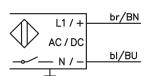


# Accessories:

(available separately)

Mounting clamp (MC 018...)





...NO... (normally open)

#### **IS 218** 2-wire UC standard design

## **Specifications**

**General specifications** IS 218...-5E0 Type of installation embedded installation 5.0mm

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> Minimum load current I

Switching output/function Voltage drop U<sub>d</sub> Hysteresis H of S

Temperature 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

chromium-plated brass 18 x 18 mm<sup>2</sup>, Fe360 PBTP

≤ 10ms

0 ... 4.0mm

relay, NC contact relay, NO contact ≤ 6V at 200mA

≤1mA 2mA

≤ 10% ≤ 10 % 2)

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

AC: 25Hz DC: 1500Hz

switching state

.../1NC.3... .../1NO.3...

 $20 \dots 265$  VAC /  $10 \dots 320$  VDC  $\leq 20\%$  of  $U_B \leq 200$  mA AC/DC

approx. 120g cable: 2m, PVC, 2 x 0.34mm², Ø 5.0mm

-25°C ... +70°C

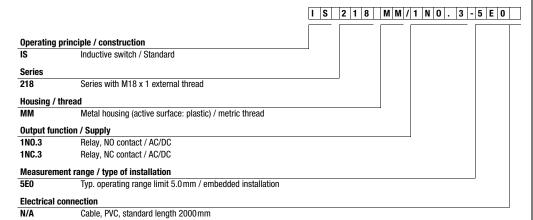
IP 67

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.
- Over the entire operating temperature range
- For  $U_B = 20 \dots 30 \text{VDC}$ , ambient temperature  $T_a = 23 \text{ °C} \pm 5 \text{ °C}$
- 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.
$S_n = 5 mm$	IS 218 MM/1NC.3-5E0	50128151
	IS 218 MM/1N0.3-5E0	50128152
	Additional types on request	

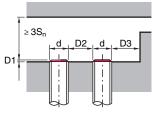
### **Tables**

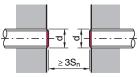
Reduction factors:

ior s <sub>n</sub> = s.oiiiiii	
Steel Fe360	1
Copper	0.40
Aluminum	0.40
Brass	0.50
Stainless steel	0.80

## Mounting

#### **Embedded installation:**

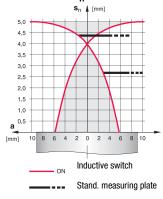




Ferromagnetic and non-ferromagnetic materials				
S <sub>n</sub> [mm]	D1 [mm]	D2 [mm]	D3 [mm]	
5.0	0	14.0	5.0	

# **Diagrams**

Models with  $S_n = 5.0$ 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. Solly use the product in accor-
- dance with the intended use.

2015/01 IS 218MM/1N...E... - 01