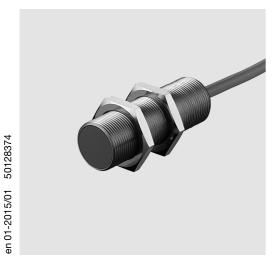
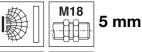
IS 218 2-wire UC standard design

Inductive switches





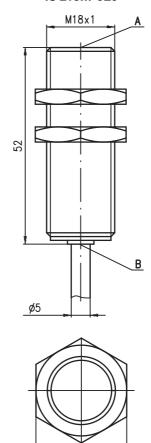


Embedded

- Slim and short cylindrical metal housing M18
- 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 < 20Nm!

SW24

- A Active surface
- B Yellow indicator diode









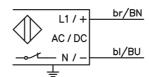


(available separately)

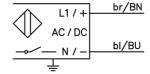
• Mounting clamp (MC 018...)

Electrical connection

...NC... (normally closed)



...NO... (normally open)



IS 218 2-wire UC standard design

Specifications

General specifications Type of installation

Typ. operating range limit S_n Operating range Sa

Electrical data

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

Minimum load current I Switching output/function

Voltage drop U_d 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

-25°C ... +70°C IP 67

IS 218...-5E0

 \leq 20% of U_B \leq 200mA AC/DC

relay, NC contact relay, NO contact

≤ 6 V at 200 mA ≤ 10% ≤ 10 % 2)

≤ 0.5 mm ³⁾

AC: 25Hz DC: 1500Hz

switching state

chromium-plated brass

18 x 18 mm², Fe360

< 10ms

PBTP

5.0mm

≤1mA 2mA

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

0 ... 4.0mm

embedded installation

20 ... 265VAC / 10 ... 320VDC

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)

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

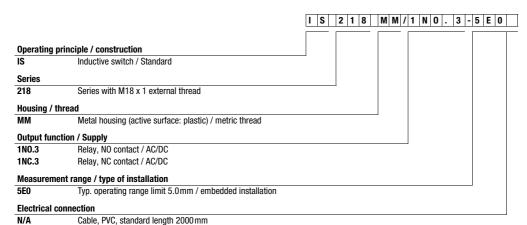
1) Observe the safety regulations and installation instructions regarding power supply and wiring.

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 = 5mm	IS 218 MM/1NC.3-5E0	50128151
	IS 218 MM/1N0.3-5E0	50128152
	Additional types on request	

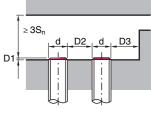
Tables

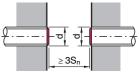
Reduction factors:

ior S _n = 5.0iiiiii	
Steel Fe360	1
Copper	0.40
Aluminum	0.40
Brass	0.50
Stainless steel	0.80

Mounting

Embedded installation:

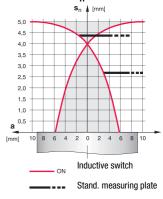




Ferromagnetic and non-ferromagnetic materials				
S _n [mm]	D1 [mm]	D2 [mm]	D3 [mm]	
5.0	0	14.0	5.0	

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. Sonly use the product in accor-
- dance with the intended use.

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