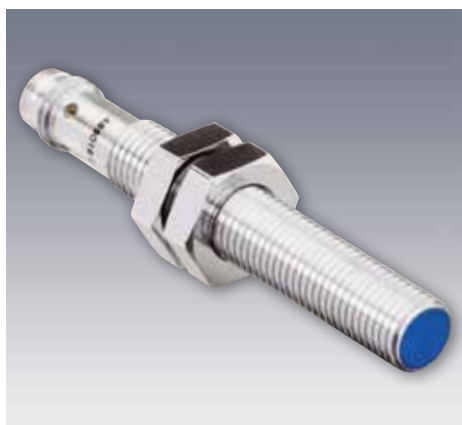


# IS 58

## Inductive sensor



Plug connection (M8x1)	Plug connection (M12x1)	Cable connection

Sensor data		Functions	
Switching distance	3 mm	Indicator LED, yellow	Switching output indicator
Repeatability	0.15 mm <sup>1</sup>		
Hysteresis	≤ 15 % <sup>2</sup>		
Reduction factor; Al	0.33		
Reduction factor; Cu	0.27		
Reduction factor; V2A	0.72		
Reduction factor; steel FE 360	1.00		
Reduction factor; brass	0.41		
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	10 ... 30V DC <sup>3</sup>	Dimensions	See Selection Table
No-load current, I <sub>0</sub>	≤ 10 mA	Enclosure rating	IP 67 <sup>4</sup>
Output current, I <sub>e</sub>	≤ 200 mA	Mounting	Flush
Voltage drop, U <sub>D</sub>	≤ 2V at 200 mA	Material, housing	Nickel silver; chrome-plated
Protective circuits	Reverse-polarity protection, U <sub>B</sub> / short-circuit protection (Q) / induction protection	Material, front surface	PBTP (PPS)
Switching output, Q	PNP / NPN (see Selection Table)	Type of connection	See Selection Table
Output function	N.O.	Ambient temperature: operation	-25 ... +70 °C
Switching frequency, f (ti/tp 1:1)	≤ 1000 Hz	Vibration and impact resistance	IEC 60947-5-2 / 7.4

<sup>1</sup> U<sub>B</sub> = 20 ... 30V DC, T<sub>A</sub> = 23 °C ± 5 °C    <sup>2</sup> Refers to switching distance    <sup>3</sup> Max. 20 % ripple, within U<sub>B</sub>    <sup>4</sup> With connected IP 67 plug

Connection plug, 3-pin	Connection plug, 4-pin	Connection cable, 3-wire

Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
3 mm	PNP	M8 x 60 mm	Plug, M8x1, 3-pin	IS 58-12 T	996-50587
3 mm	NPN	M8 x 60 mm	Plug, M8x1, 3-pin	IS 58-11 T	996-50640
3 mm	PNP	M8 x 66 mm	Plug, M12x1, 4-pin	IS 58-42	996-09965
3 mm	NPN	M8 x 66 mm	Plug, M12x1, 4-pin	IS 58-41	996-09964
3 mm	PNP	M8 x 45 mm	Cable, 2 m, 3-wire	IS 58-02	996-09413
3 mm	NPN	M8 x 45 mm	Cable, 2 m, 3-wire	IS 58-01	996-09412