

IS 58

Inductive sensor with expanded switching distance



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

Sensor data		Functions	
Switching distance	6 mm	Indicator LED, yellow	Switching output indicator
Repeatability	≤ 0.3 mm		
Reduction factor, Al	0.47		
Reduction factor, Cu	0.44		
Reduction factor, V2A	0.77		
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC ¹	Dimensions	See Selection Table
No-load current, I ₀	≤ 10 mA	Enclosure rating	IP 67 ²
Output current, I _e	≤ 200 mA	Mounting	Non-flush
Voltage drop, U ₀	≤ 2V at 200 mA	Material, housing	Brass, chrome-plated
Protective circuits	Short-circuit protection (Q) / overload protection	Material, front surface	PBTP
Power On Delay	50 ms	Type of connection	See Selection Table
Switching output, Q	PNP / NPN (see Selection Table)	Ambient temperature: operation	-25 ... +70 °C
Output function	N.O.		
Switching frequency, f (ti/tp 1:1)	≤ 500 Hz		

¹ Max. 20 % ripple, within U_B ² 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
6 mm	PNP	M8 x 60 mm	Plug, M8x1, 3-pin	IS 58-14-S	996-51456
6 mm	NPN	M8 x 60 mm	Plug, M8x1, 3-pin	IS 58-13-S	996-51470
6 mm	PNP	M8 x 66 mm	Plug, M12x1, 4-pin	IS 58-44-S	996-51460
6 mm	NPN	M8 x 66 mm	Plug, M12x1, 4-pin	IS 58-43-S	996-51463
6 mm	PNP	M8 x 45 mm	Cable, 3-wire	IS 58-04-S	996-51461
6 mm	NPN	M8 x 45 mm	Cable, 3-wire	IS 58-03-S	996-51465