IS 56

Inductive sensor

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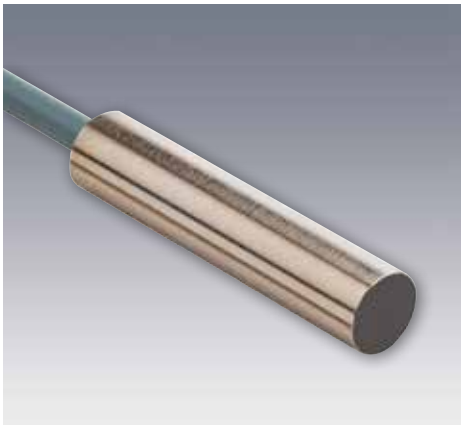
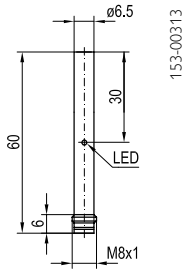
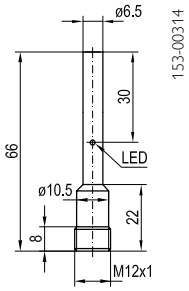
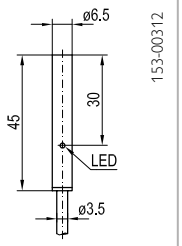


CE

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

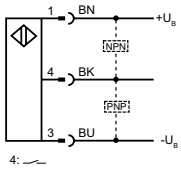
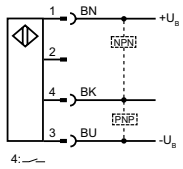
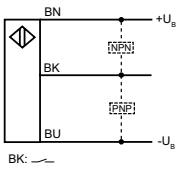
Sensor data	
Switching distance	3 mm
Repeatability	0.15 mm[1]
Hysteresis	≤ 10 %[2]
Reduction factor, Al	0.26
Reduction factor, Cu	0.18
Reduction factor, V2A	0.67
Reduction factor, steel FE 360	1.00
Reduction factor, brass	0.35

Functions	
Indicator LED, yellow	Switching output indicator

Electrical data	
Operating voltage, $+U_B$	10 … 30 V DC[3]
No-load current, I_0	≤ 10 mA
Output current, Ie	≤ 200 mA
Voltage drop, U_D	≤ 2 V at 200 mA
Protective circuits	Reverse-polarity protection, U_B / Short-circuit protection (Q) / induction protection
Switching output, Q	PNP / NPN (see Selection Table)
Output function	N.O.
Switching frequency, f (ti/tp 1:1)	≤ 1000 Hz

Mechanical data	
Dimensions	See Selection Table
Mounting	Quasi-flush
Enclosure rating	IP 67[4]
Material, housing	Brass, chrome-plated
Material, front surface	PBTP
Type of connection	See Selection Table
Ambient temperature: operation	-25 … +70 °C
Vibration and impact resistance	IEC 60947-5-2 / 7.4

[1] U_B = 20 … 30 V DC, T_A = 23 °C ± 5 °C [2] Refers to switching distance [3] Max. 20 % ripple, within U_B [4] 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	Ø 6.5 x 60 mm	Plug, M8x1, 3-pin	IS 56-12	996-50586
3 mm	NPN	Ø 6.5 x 60 mm	Plug, M8x1, 3-pin	IS 56-11 T	996-50632
3 mm	PNP	Ø 6.5 x 66 mm	Plug, M12x1, 4-pin	IS 56-42	996-09963
3 mm	NPN	Ø 6.5 x 66 mm	Plug, M12x1, 4-pin	IS 56-41	996-50390
3 mm	PNP	Ø 6.5 x 45 mm	Cable, 2 m, 3-wire	IS 56-02	996-09409
3 mm	NPN	Ø 6.5 x 45 mm	Cable, 2 m, 3-wire	IS 56-01	996-09408

Version: 07/2016. Subject to changes; diagrams similar