IS 58

Inductive sensor

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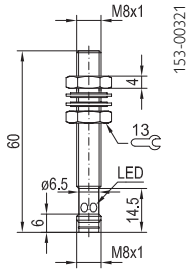
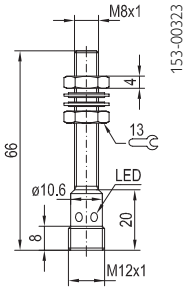
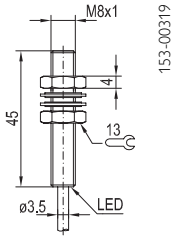
ELECTROMATE
Toll Free Phone (877) SERV098
www.electromate.com
sales@electromate.com

CE

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

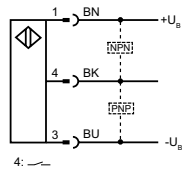
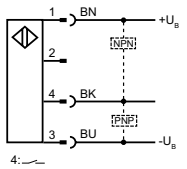
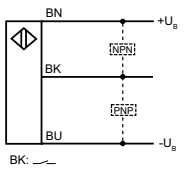
Sensor data	
Switching distance	3 mm
Repeatability	0.15 mm[1]
Hysteresis	≤ 15 %[2]
Reduction factor, Al	0.33
Reduction factor, Cu	0.27
Reduction factor, V2A	0.72
Reduction factor, steel FE 360	1.00
Reduction factor, brass	0.41

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
Enclosure rating	IP 67[4]
Mounting	Flush
Material, housing	Nickel silver, chrome-plated
Material, front surface	PBTP (PPS)
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	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

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