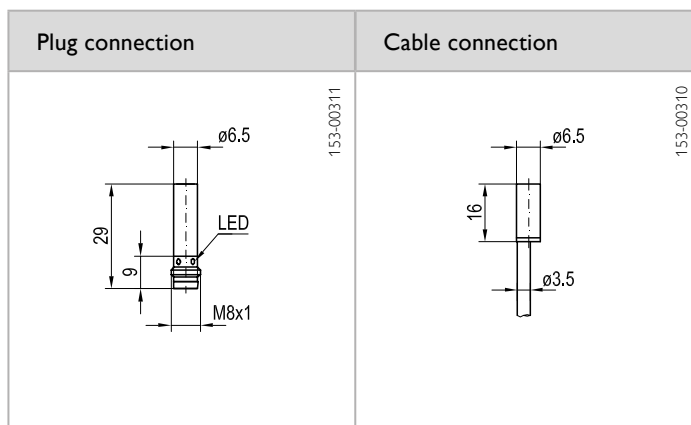
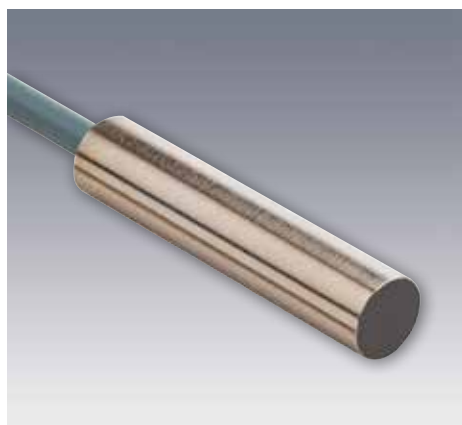


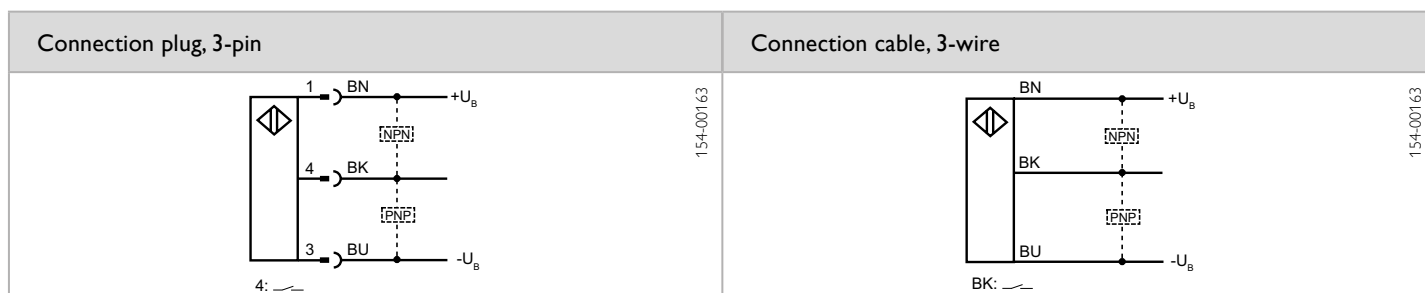
IS 46

Inductive sensor with stainless steel housing



Sensor data		Functions	
Switching distance	1.5 mm	Indicator LED, yellow	Switching output indicator
Repeatability	0.02 mm ¹		
Hysteresis	≤ 10 % ²		
Reduction factor; Al	0.45		
Reduction factor; Cu	0.40		
Reduction factor; V2A	0.80		
Reduction factor; steel FE 360	1.00		
Reduction factor; brass	0.50		
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC ³	Dimensions (plug device)	∅ 6.5 × 29 mm
No-load current, I ₀	≤ 10 mA	Dimensions (cable device)	∅ 6.5 × 16 mm
Output current, I _e	≤ 200 mA	Mounting	Flush
Voltage drop, U _D	≤ 2V at 200 mA	Enclosure rating	IP 67 ⁴
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection (Q) / induction protection	Material, housing	Stainless steel, V2A
Switching output, Q	PNP / NPN (see Selection Table)	Material, front surface	PA 66
Output function	N.O.	Type of connection	See Selection Table
Switching frequency, f (ti/tp 1:1)	≤ 5000 Hz	Ambient temperature: operation	-25 ... +70 °C
		Vibration and impact resistance	IEC 60947-5-2 / 7.4

¹ U_B = 20 ... 30V 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



Switching distance	Switching output	Type of connection	Part number	Article number
1.5 mm	PNP	Plug, M8x1, 3-pin	IS 46-12	996-50590
1.5 mm	NPN	Plug, M8x1, 3-pin	IS 46-11 T	996-50613
1.5 mm	PNP	Cable, 2 m, 3-wire	IS 46-02	996-09401