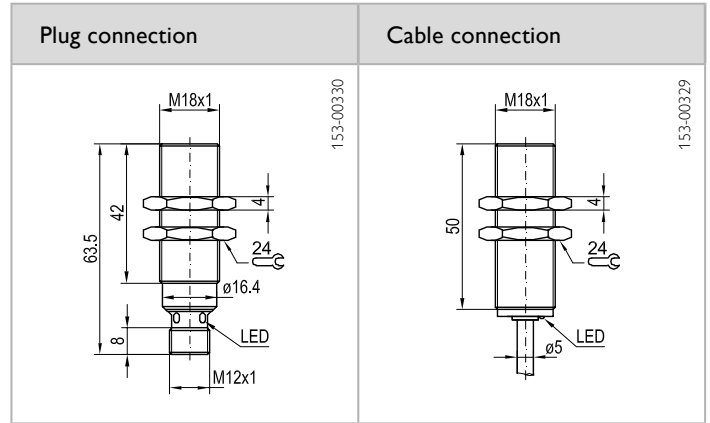


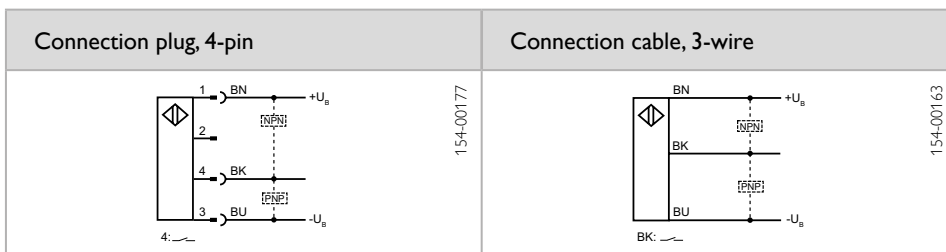
# IS 518

Inductive sensor with expanded switching distance



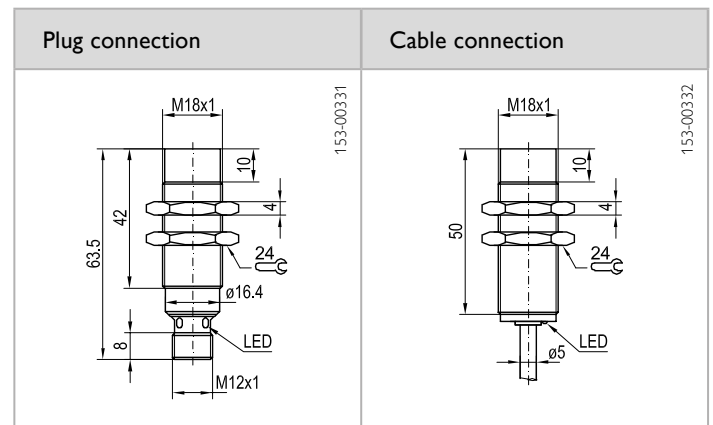
Sensor data		Functions	
Switching distance	12 mm	Indicator LED, yellow	Switching output indicator
Repeatability	0.6 mm <sup>1</sup>		
Hysteresis	≤ 10 % <sup>2</sup>		
Reduction factor; Al	0.26		
Reduction factor; Cu	0.20		
Reduction factor; V2A	0.63		
Reduction factor; steel FE 360	1.00		
Reduction factor; brass	0.33		
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	Mounting	Quasi-flush
Output current, I <sub>e</sub>	≤ 200 mA	Enclosure rating	IP 67 <sup>4</sup>
Voltage drop, U <sub>D</sub>	≤ 2V at 200 mA	Material, housing	Brass, chrome-plated
Protective circuits	Reverse-polarity protection, U <sub>B</sub> / short-circuit protection (Q) / induction protection	Material, front surface	PBTP
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)	≤ 500 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



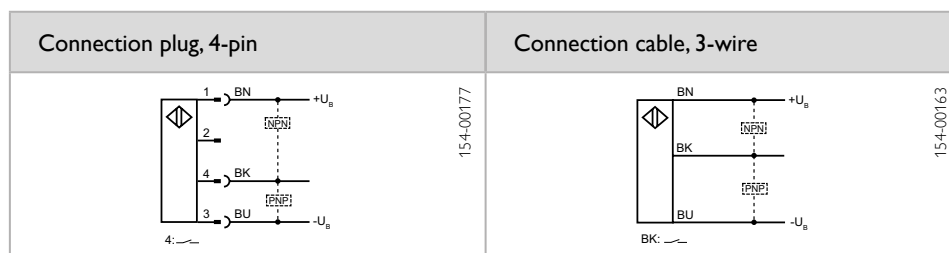
Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
12 mm	PNP	M18 × 63.5 mm	Plug, M12x1, 4-pin	IS 518-42	996-09973
12 mm	NPN	M18 × 63.5 mm	Plug, M12x1, 4-pin	IS 518-41	996-09972
12 mm	PNP	M18 × 50 mm	Cable, 2 m, 3-wire	IS 518-02	996-09429
12 mm	NPN	M18 × 50 mm	Cable, 2 m, 3-wire	IS 518-01	996-09428

Inductive sensor with expanded switching distance



Sensor data		Functions	
Switching distance	20 mm	Indicator LED, yellow	Switching output indicator
Reduction factor, AI	0.40		
Reduction factor, Cu	0.35		
Reduction factor, V2A	0.66		
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	10 ... 30V DC <sup>1</sup>	Dimensions	See Selection Table
No-load current, I <sub>0</sub>	≤ 10 mA	Mounting	Non-flush
Output current, I <sub>e</sub>	≤ 200 mA	Enclosure rating	IP 67 <sup>2</sup>
Voltage drop, U <sub>D</sub>	≤ 2V at 200 mA	Material, housing	Brass, nickel-plated
Protective circuits	Short-circuit protection (Q) / overload protection	Type of connection	See Selection Table
Power On Delay	100 ms	Ambient temperature: operation	-25 ... +70 °C
Switching output, Q	PNP / NPN (see Selection Table)		
Output function	N.O.		
Switching frequency, f (ti/tp 1:1)	≤ 200 Hz		

<sup>1</sup> Max. 20 % ripple, within U<sub>B</sub>    <sup>2</sup> With connected IP 67 plug



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Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
20 mm	PNP	M18 x 63.5 mm	Plug, M12x1, 4-pin	IS 518-44-S	996-51453
20 mm	NPN	M18 x 63.5 mm	Plug, M12x1, 4-pin	IS 518-43-S	996-50327
20 mm	PNP	M18 x 50 mm	Cable, 3-wire	IS 518-04-S	996-51450