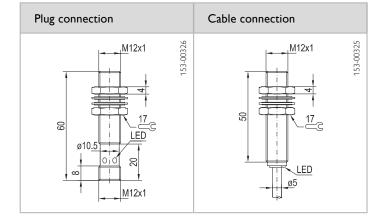
IS 512



Inductive sensor with expanded switching distance



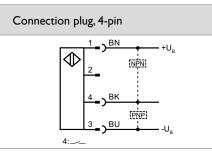
CE



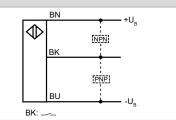
Sensor data		Functions		
Switching distance	6 mm	Indicator LED, yellow	Switching output indicator	
Repeatability	0.3 mm ¹		<u>_</u>	
Hysteresis	≤ 10 % ²			
Reduction factor, Al	0.30		1	
Reduction factor, Cu	0.25		1	
Reduction factor,V2A	0.70		1	
Reduction factor, steel FE 360	1.00		1	
Reduction factor, brass	0.40			
	10 30V DC ³	Dimensions	See Selection Table	
I IDARATING VOITAGE +()				
Operating voltage, +U _B				
No-load current, I ₀	≤ 10 mA ≤ 200 mA	Enclosure rating Mounting	IP 67 ⁴ Quasi-flush	
No-load current, I ₀	≤ 10 mA	Enclosure rating	IP 67 ⁴	
No-load current, I ₀ Output current, le	≤ 10 mA ≤ 200 mA	Enclosure rating Mounting	IP 674 Quasi-flush	
No-load current, I ₀ Output current, le Voltage drop, U _D Protective circuits	<pre>≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U_B / short-cir- cuit protection (Q) / induction protection</pre>	Enclosure rating Mounting Material, housing	IP 67 ⁴ Quasi-flush Brass, chrome-plated	
No-load current, I ₀ Output current, Ie Voltage drop, U _D Protective circuits Switching output, Q	<pre>≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U_B / short-cir- cuit protection (Q) / induction protection PNP / NPN (see Selection Table)</pre>	Enclosure rating Mounting Material, housing Material, front surface	IP 67 ⁴ Quasi-flush Brass, chrome-plated PBTP (PPS)	
No-load current, I ₀ Output current, le Voltage drop, U _D Protective circuits	<pre>≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U_B / short-cir- cuit protection (Q) / induction protection</pre>	Enclosure rating Mounting Material, housing Material, front surface Type of connection	IP 67 ⁴ Quasi-flush Brass, chrome-plated PBTP (PPS) See Selection Table	

 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

154-00177



Connection cable, 3-wire



154-00163

Sold & Serviced By: **ELECTROMATE** Toll Free Phone (877) SERV098

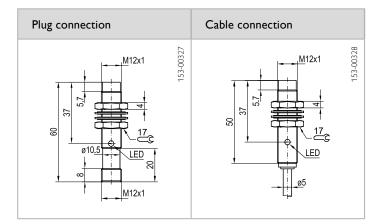
www.electromate.com sales@electromate.com

Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
6 mm	PNP	M12 x 60 mm	Plug, M12x1, 4-pin	IS 512-42	996-09969
6 mm	NPN	M12 x 60 mm	Plug, M12x1, 4-pin	IS 512-41	996-09968
6 mm	PNP	M12 x 50 mm	Cable, 2 m, 3-wire	IS 512-02	996-09421
6 mm	NPN	M12 x 50 mm	Cable, 2 m, 3-wire	IS 512-01	996-09420

Inductive sensor with expanded switching distance



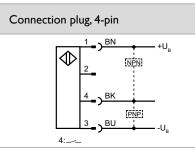
CE

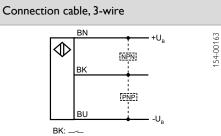


Sensor data		Functions		
Switching distance Repeatability Hysteresis Reduction factor, Al Reduction factor, Cu Reduction factor, V2A Reduction factor, steel FE 360 Reduction factor, brass	$ \begin{array}{r} 10 \text{ mm} \\ \leq 0.3 \text{ mm}^{1} \\ \leq 10 \%^{2} \\ 0.49 \\ 0.45 \\ 0.77 \\ 1.00 \\ 0.56 \\ \end{array} $	Indicator LED, yellow	Switching output indicator	
Electrical data		Mechanical data		
Operating voltage, +U _B No-load current, I ₀ Output current, Ie Voltage drop, U _D Protective circuits Switching output, Q Output function Switching frequency, f (ti/tp 1:1)	10 30V DC ³ ≤ 10 mA ≤ 200 mA ≤ 2V at 200 mA Reverse-polarity protection, U _B / short-cir- cuit protection (Q) / induction protection PNP / NPN (see Selection Table) N.O. ≤ 400 Hz	Dimensions Enclosure rating Mounting Material, housing Material, front surface Type of connection Ambient temperature: operation Vibration and impact resistance	See Selection Table IP 67 ⁴ Non-flush Brass, chrome-plated PBTP (PPS) See Selection Table -25 +70 °C 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

154-00177





Sold & Serviced By:

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

Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
10 mm	PNP	M12 x 60 mm	Plug, M12x1, 4-pin	IS 512-44-S	996-51449
10 mm	NPN	M12 x 60 mm	Plug, M12x1, 4-pin	IS 512-43	996-09970
10 mm	PNP	M12 x 50 mm	Cable, 2 m, 3-wire	IS 512-04-S	996-51458
10 mm	NPN	M12 × 50 mm	Cable, 2 m, 3-wire	IS 512-03-S	996-51472