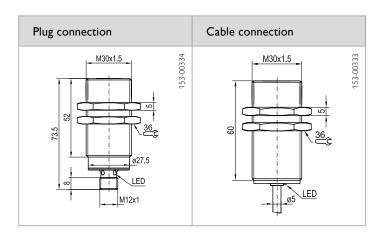
Inductive sensor with expanded switching distance



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	22 mm 1.1 mm¹ ≤ 10 %² 0.40 0.35 0.66 1.00 0.35	Indicator LED, yellow	Operating voltage indicator	
Electrical data		Mechanical data		
Operating voltage, +U _B No-load current, I _O Output current, Ie Voltage drop, U _D Protective circuits Switching output, Q Output function Switching frequency, f (ti/tp 1:1)	10 30 V DC³ ≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U _B / short-circuit protection (Q) / induction protection PNP / NPN (see Selection Table) N.O. ≤ 200 Hz	Dimensions Mounting Enclosure rating Material, housing Material, front surface Type of connection Ambient temperature: operation Vibration and impact resistance	See Selection Table Quasi-flush IP 67 ⁴ Brass, chrome-plated PBTP See Selection Table -25 +70 °C IEC 60947-5-2 / 7.4	

 1 U $_{B}$ = 20 ... 30 V DC, T_{A} = 23 °C \pm 5 °C $^{-2}$ Refers to switching distance $^{-3}$ Max. 20 % ripple, within U $_{B}$ $^{-4}$ With connected IP 67 plug

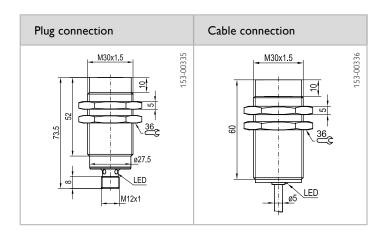
Connection plug, 4-pin	Connection cable, 3-wire
1 3 BK +U _B 2 BK +U _B 4 3 BK +U _B 4:	BN +U _a Spinol +U _b Spinol +U _a Spinol +St. Spinol

Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
22 mm	PNP	M30 × 73.5 mm	Plug, M12×1, 4-pin	IS 530-42	996-09905
22 mm	NPN	M30 × 73.5 mm	Plug, M12×1, 4-pin	IS 530-41	996-50673
22 mm	PNP	M30 × 60 mm	Cable, 2 m, 3-wire	IS 530-02	996-09437
22 mm	NPN	M30 × 60 mm	Cable, 2 m, 3-wire	IS 530-01	996-09436

Inductive sensor with expanded switching distance







Sensor data		Functions		
Switching distance	40 mm	Indicator LED, yellow	Operating voltage indicator	
Repeatability	2 mm ¹			
Hysteresis	≤ 10 % ²			
Reduction factor, Al	0.42			
Reduction factor, Cu	0.37			
Reduction factor, V2A	0.78			
Reduction factor, steel FE 360	1.00			
Reduction factor, brass	0.47			
Electrical data		Mechanical data		
	42 2042 0			
Operating voltage, +U _B	10 30V DC ³	Dimensions	See Selection Table	
Operating voltage, +U _B No-load current, I ₀	≤ 10 mA	Dimensions Mounting	Non-flush	
Operating voltage, +U _B No-load current, I ₀ Output current, le	≤10 mA ≤200 mA	Dimensions Mounting Enclosure rating	Non-flush IP 67 ⁴	
Operating voltage, +U _B No-load current, I ₀ Output current, le Voltage drop, U _D	≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA	Dimensions Mounting Enclosure rating Material, housing	Non-flush IP 67 ⁴ Brass, chrome-plated	
Operating voltage, +U _B No-load current, I ₀ Output current, le	≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U _B / short-cir-	Dimensions Mounting Enclosure rating Material, housing Material, front surface	Non-flush IP 67 ⁴ Brass, chrome-plated PBTP	
Operating voltage, +U _B No-load current, I _O Output current, le Voltage drop, U _D Protective circuits	≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U _B / short-circuit protection (Q) / induction protection	Dimensions Mounting Enclosure rating Material, housing Material, front surface Type of connection	Non-flush IP 67 ⁴ Brass, chrome-plated PBTP See Selection Table	
Operating voltage, +U _B No-load current, I ₀ Output current, le Voltage drop, U _D Protective circuits Switching output, Q	≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U _B / short-circuit protection (Q) / induction protection PNP / NPN (see Selection Table)	Dimensions Mounting Enclosure rating Material, housing Material, front surface Type of connection Ambient temperature: operation	Non-flush IP 67 ⁴ Brass, chrome-plated PBTP See Selection Table -25 +70 °C	
Operating voltage, +U _B No-load current, I _O Output current, le Voltage drop, U _D Protective circuits	≤ 10 mA ≤ 200 mA ≤ 2 V at 200 mA Reverse-polarity protection, U _B / short-circuit protection (Q) / induction protection	Dimensions Mounting Enclosure rating Material, housing Material, front surface Type of connection	Non-flush IP 67 ⁴ Brass, chrome-plated PBTP See Selection Table	

 1 U $_{B}$ = 20 ... 30 V DC, T_{A} = 23 °C \pm 5 °C 2 Refers to switching distance 3 Max. 20 % ripple, within U $_{B}$ 4 With connected IP 67 plug

Connection plug, 4-pin	Connection cable, 3-wire
1 DBN +U _B +U _B +V _B	BN +U _a +U _b +U _b +U _b +V

Switching distance	Switching output	Dimensions	Type of connection	Part number	Article number
40 mm	PNP	M30 × 73.5 mm	Plug, M12x1, 4-pin Cable, 2 m, 3-wire Cable, 2 m, 3-wire	IS 530-44-S	996-51454
40 mm	PNP	M30 × 60 mm		IS 530-04-S	996-51452
40 mm	NPN	M30 × 60 mm		IS 530-03	996-09438