

Miniature Inductive 3-wire DC Proximity Switch AD1

IMO

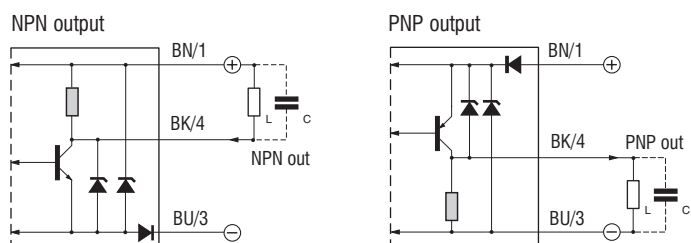
- ø5mm x 25mm
- Stainless steel housing
- LED status indicator
- 10 - 30VDC
- High switching speed 7kHz
- Cable exit and plug-in types
- Nominal sensing distance: Shielded Standard 0.8mm
Shielded Long Distance 1.5mm



Options and ordering codes

AD1	/	A	N	-	3	A
						A Standard cable exit
						F Plug exit M8
						1 Shielded Standard
						3 Shielded Long Distance
						P PNP logic output
						N NPN logic output
						A Normally open output
						C Normally closed output

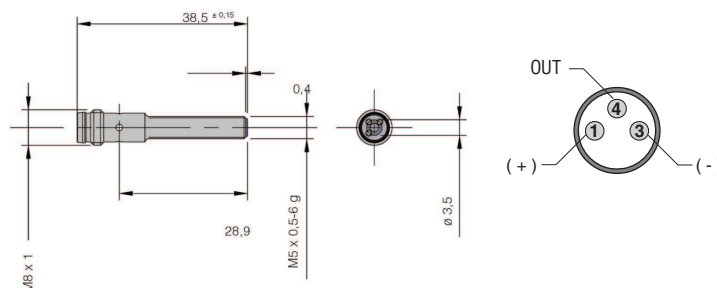
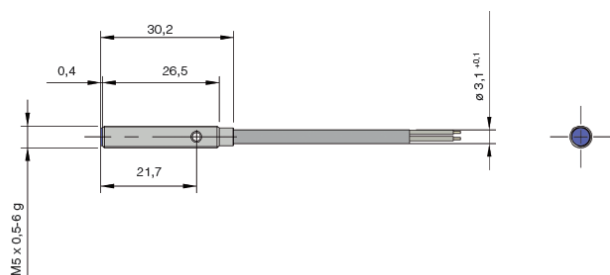
Wiring diagrams



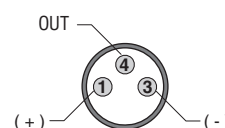
Correction factor

Model	FE360	Copper	Aluminum	Brass	Stainless Steel
AD1/xx-1x	1	0.32±10%	0.26±10%	0.35±10%	0.66±10%
AD1/xx-3x	1	0.33±10%	0.27±10%	0.34±10%	0.66±10%

Dimensions (mm)



Connectors M8



Specifications

Model	AD1/xx-1x	AD1/xx-3x
Nominal sensing distance S_n	0.8mm	1.5mm
Hysteresis	1 to 20%	
Standard target	5 x 5 mm	
Repeat accuracy	5% @ $U_a = 20$ to 30 V; $T_a = 23^\circ\text{C} \pm 5^\circ\text{C}$	
Operating voltage	10 to 30 VDC	
Ripple	≤ 10 %	
Output current	≤ 100 mA	
Output voltage drop	≤ 1.5 V @ 100mA	
No-load current	≤ 10 mA	
Leakage current	≤ 10 μA	
Switching frequency	7 kHz	
Time delay before availability	≤ 50 ms	
Temperature range	-25°C to +70°C	
Thermal drift	≤ 10%	
Supply electrical protection	polarity reversal	
Output electrical protection	short circuit (auto reset), overvoltage pulses	
Protection degree	IP67	
Housing material	stainless steel AISI 303	
Active head material	PBT	
LED indicators	On (yellow LED)	