

Miniature Inductive 3-wire DC Proximity Switch AHS

IMO

- Ultra small 6.5mm diameter stainless steel housing
- Shielded models
- IP67 Protection degree
- Short circuit and over-voltage protection
- LED status indicator
- Nominal sensing distance: Shielded Standard 1.5mm
Shielded Long Distance 2mm



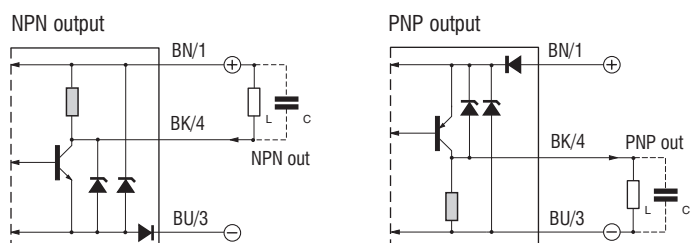
Options and ordering codes

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

Specifications

Model	AHS/xx-1x	AHS/xx-3X
Nominal sensing distance S_n	1.5mm	2.0mm
Hysteresis	1 to 20%	
Standard target	6.5 x 6.5mm	
Repeat accuracy	5% @ $U_B=20$ to 30 V; $T_a = 23^\circ\text{C} \pm 5^\circ\text{C}$	
Operating voltage	10 to 30 VDC	
Ripple	$\leq 10\%$	
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 $+70^\circ\text{C}$	
Thermal drift	$\leq 10\%$	
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)	

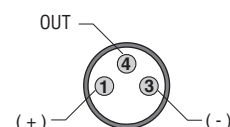
Wiring diagrams



Correction factor

Model	FE360	Copper	Aluminum	Brass	Stainless Steel
AHS/xx-1x	1	$0.10 \pm 10\%$	$0.05 \pm 10\%$	$0.13 \pm 10\%$	$0.54 \pm 10\%$
AHS/xx-3X	1	$0.05 \pm 10\%$	$0.05 \pm 10\%$	$0.10 \pm 10\%$	$0.50 \pm 10\%$

Connectors M8



Dimensions (mm)

