

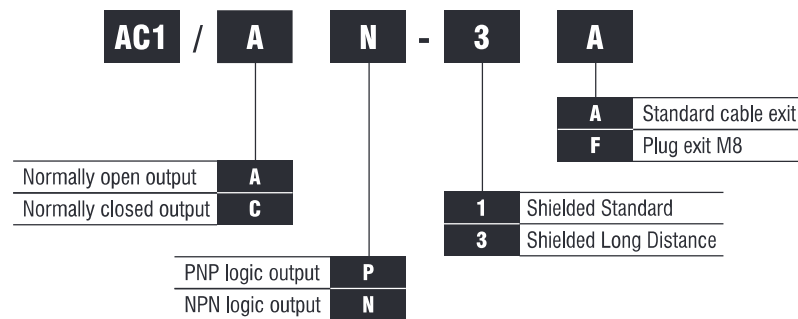
# Miniature Inductive 3-wire DC Proximity Switch AC1



- Ultra small 4mm diameter stainless steel housing
- Shielded models
- IP67 Protection degree
- Short circuit and over-voltage protection
- LED status indicator
- Nominal sensing distance: Shielded Standard 0.8mm  
Shielded Long Distance 1.5mm



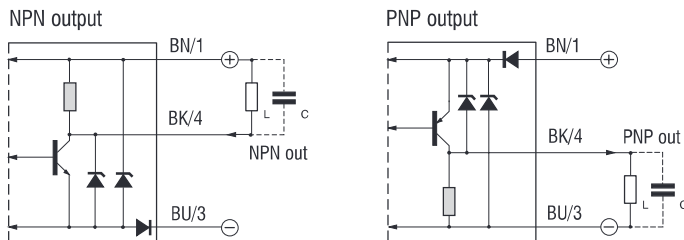
## Options and ordering codes



## Specifications

Model	AC1/xx-1x	AC1/xx-3X
Nominal sensing distance $S_n$	0.8mm	1.5mm
Hysteresis	1 to 20%	
Standard target	4 x 4mm	4.5 x 4.5mm
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	$\leq 100$ mA	
Output voltage drop	$\leq 1.5$ V @ 100mA	
No-load current	$\leq 10$ mA	
Leakage current	$\leq 10$ $\mu\text{A}$	
Switching frequency	7 kHz	
Time delay before availability	$\leq 50$ ms	
Temperature range	$-25^\circ\text{C}$ 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)	

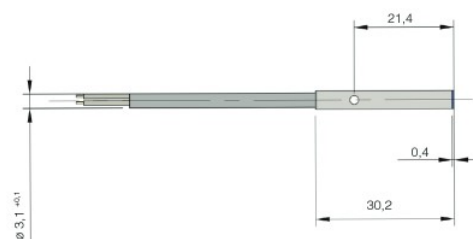
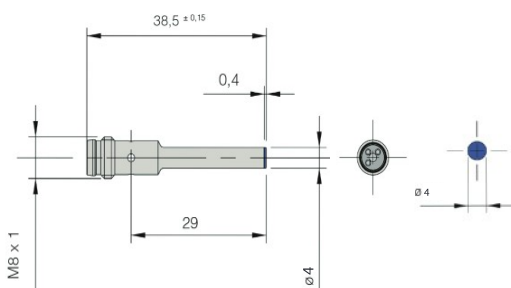
## Wiring diagrams



## Correction factor

Model	FE360	Copper	Aluminum	Brass	Stainless Steel
AC1/xx-1x	1	$0.28 \pm 10\%$	$0.21 \pm 10\%$	$0.32 \pm 10\%$	$0.63 \pm 10\%$
AC1/xx-3X	1	$0.29 \pm 10\%$	$0.23 \pm 10\%$	$0.31 \pm 10\%$	$0.66 \pm 10\%$

## Dimensions (mm)



## Connectors M8

