

# Proximity Sensors Inductive Analogue Current Output, Nickel-plated Brass Housing Types IA, M8, M12, M18 and M30

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- Nickel-plated brass housing
- Housing diameter: 8, 12, 18 and 30 mm
- Sensing distance:
  - M8: 0.15 - 1.5 mm
  - M12: 0.3 - 3 mm
  - M18: 0.6 - 6 mm
  - M30: 1 - 10 mm
- Power supply: 18 to 30 VDC
- Output: 20 - 4 mA
- Protection degree IP67
- 2 m PVC cable

## Product Description

Inductive proximity sensor with analogue 20-4 mA current output. The analogue signal can be directly connected to measuring systems. Nickel-plated brass housing in 4 sizes. Connection with 2 m PVC cable.

## Ordering Key

**IA 18 ALC 06 AG-K**

Type: Ind. prox. switch  
 Housing style  
 Housing size  
 Housing material  
 Housing length  
 Detection principle  
 Sensing distance  
 Output type  
 Output configuration

## Type Selection

Detecting range	Housing	Connection dimensions	Ordering no. Analogue Current Output PNP, 20-4 mA
0.15 - 1.5 mm	M8	Cable, 2 m	IA 08 ALC 15 AG-K
0.3 - 3.0 mm	M12	Cable, 2 m	IA 12 ALC 03 AG-K
0.6 - 6.0 mm	M18	Cable, 2 m	IA 18 ALC 06 AG-K
1 - 10 mm	M30	Cable, 2 m	IA 30 ALC 10 AG-K

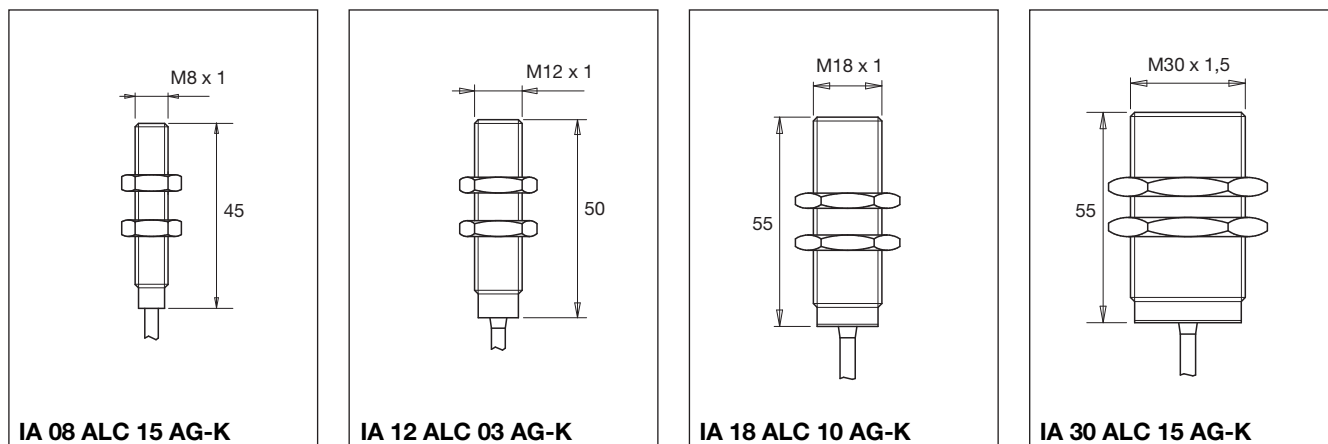
All types for flush mounting in metal

## Specifications

Rated operational volt. ( $U_B$ )	18 to 30 VDC (ripple included)	Temperature drift	< 10% on full scale
Ripple	≤ 10%	Ambient temperature	
Output current ( $I_e$ )	20 - 4 mA, PNP	Operating	0° to +50°C (32° to +122°F)
No-load supply current ( $I_o$ )	≤ 35 mA	Storage	-30° to +75°C (-22° to +167°F)
Load	< 400 Ω	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Detecting range	IA 08: 0.15 - 1.5 mm IA 12: 0.3 - 3.0 mm IA 18: 0.6 - 6.0 mm IA 30: 1 - 10 mm	Housing material	Nickel-plated brass
Repeat accuracy	< ±10%	CE-marking	Yes
		Connection	
		Cable	2 m, PVC, AWG 26



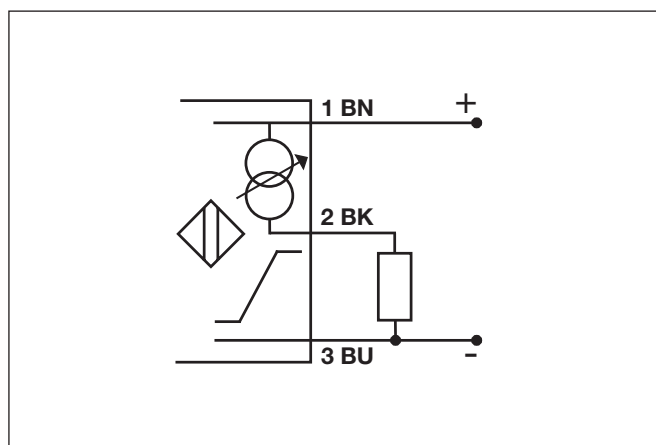
## Dimensions



## Installation Hints

<p><i>To avoid interference from inductive voltage/current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables</i></p>	<p><i>Relief of cable strain</i></p> <p>Incorrect Correct The cable should not be pulled</p>	<p><i>Protection of the sensing face</i></p> <p>A proximity switch should not serve as mechanical stop</p>	<p><i>Switch mounted on mobile carrier</i></p> <p>Any repetitive flexing of the cable should be avoided</p>
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## Wiring Diagram



## Nominal Output Characteristic

