

# Proximity Sensors Inductive Analogue Voltage Output, Nickel-plated Brass Housing Types IA, M18, 30



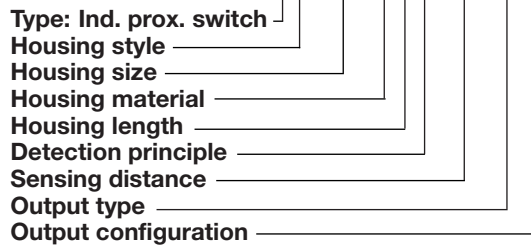
- Nickel-plated brass housing
- Housing diameter: 18 and 30 mm
- Sensing distance: 0 - 5 mm, 3.5 - 11 mm
- Power supply: 12/17 to 30 VDC
- Output: 0-1.6 V, 0-10 V
- Protection degree IP67
- 2 m PVC cable

## Product Description

Inductive proximity sensor with analogue 0-1.6 or 0-10 V voltage output. The analogue signal can be directly connected to measuring systems.

Nickel-plated brass housing, M18 and M30. Connection with 2 m PVC cable.

## Ordering Key **IA 18 ALC 05 AH-K**



## Type Selection

Detecting range	Output voltage	Housing dimensions	Connection	Ordering no. Analogue Voltage Output, PNP
0 - 5 mm	0-1.6 V	M18	Cable, 2 m	<b>IA 18 ALC 05 AH-K</b>
3.5 - 11 mm	0-10 V	M30	Cable, 2 m	<b>IA 30 ASC 11 AK-K</b>

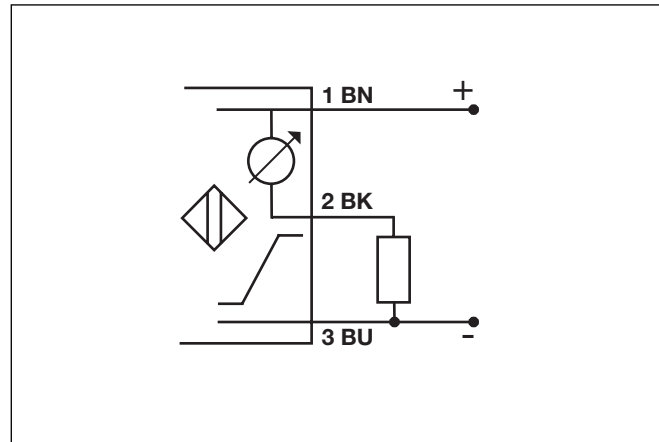
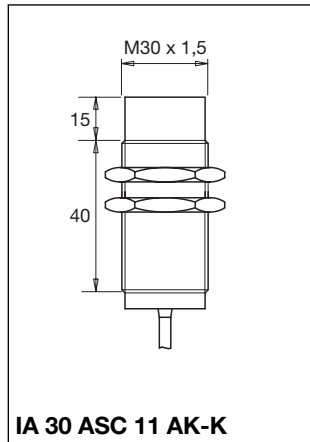
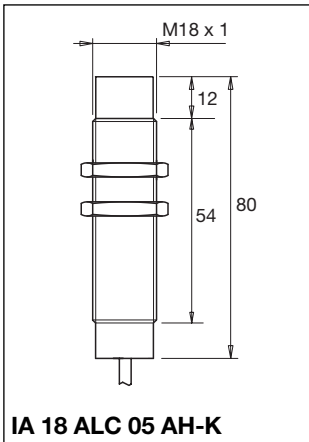
Both types for non-flush mounting

## Specifications

<b>Rated operational volt. (<math>U_B</math>)</b> IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K	12 to 30 VDC (ripple included) 17 to 30 VDC (ripple included)	<b>Ambient temperature</b> Operating IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K Storage	-25° to +70°C (-13° to +158°F) 0° to +60°C (32° to +140°F) -30° to +75°C (-22° to +167°F)
<b>Ripple</b>	≤ 10%	<b>Degree of protection</b>	IP 67 (Nema 1, 3, 4, 6, 13)
<b>Output voltage</b> IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K	0 to 1.6 V 0 to 10 V	<b>Housing material</b>	Nickel-plated brass
<b>No-load supply current (<math>I_o</math>)</b> IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K	< 25 mA < 33 mA	<b>CE-marking</b>	Yes
<b>Load</b>	> 1 kΩ	<b>Connection</b> Cable	2 m, PVC, AWG 22
<b>Detecting range</b> IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K	0 - 5 mm 3.5 - 11 mm		
<b>Linearity error</b> IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K	< 5% < 1.5%		
<b>Temperature drift</b> IA 18 ALC 05 AH-K IA 30 ASC 11 AK-K	< 10% < 4%		

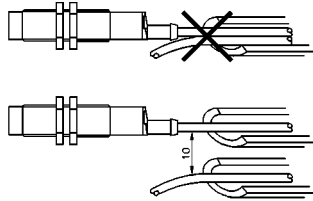
## Dimensions

## Wiring Diagram

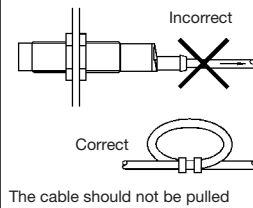


## Installation Hints

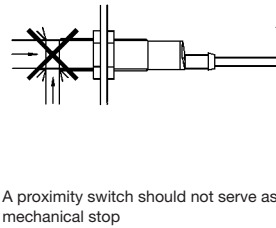
To avoid interference from inductive voltage/current peaks, separate the prox. switch power cables from any other power cables, e.g. motor, contactor or solenoid cables



Relief of cable strain



Protection of the sensing face



Switch mounted on mobile carrier

