

Proximity Sensors Inductive Analogue Voltage Output, Nickel-plated Brass Housing Types IA, M12



- Nickel-plated brass housing
- Housing diameter: 12 mm
- Sensing distance: 0.3 5 mm, 0.3 3 mm
- Power supply: 17/18 to 30 VDC
- Output: 0-10 V
- Protection degree IP67
- 2 m PVC cable

Product Description

Inductive proximity sensor with analogue 0-10 or 1-10 V voltage output. The analogue signal can be directly con-

nected to measuring systems. Nickel-plated brass housing, M12. Connection with 2 m PVC cable.

Ordering Key	IA 12 ASC 05 AK-K
Туре —	
Housing style —	
Housing size —	
Housing material ———	
Housing length ———	
Detection principle ———	
Sensing distance —	
Output type —	
Output configuration ——	

Type Selection

Detecting range	Output voltage	Housing dimensions	Connection	Ordering no. Analogue Voltage Output, PNP
0.3 - 5.0 mm	0-10 V	M12	Cable, 2 m	IA 12 ASC 05 AK-K
0.3 - 3.0 mm ¹⁾	1-10 V	M12	Cable, 2 m	IA 12 ALC 03 AK-K

¹⁾ For flush mounting in metal

Specifications

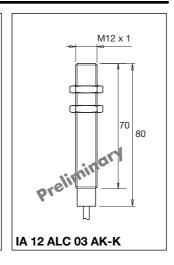
Rated operational volt. (UB)	
IA 12 ASC 05 AK-K	17 to 30 VDC (ripple included)
IA 12 ALC 03 AK-K	18 to 30 VDC (ripple included)
Ripple	≤10%
Output voltage	
IA 12 ASC 05 AK-K	0 to 10 V
IA 12 ALC 03 AK-K	1 to 10 V
No-load supply current (I _o)	
IA 12 ASC 05 AK-K	< 22 mA
IA 12 ALC 03 AK-K	< 20 mA
Load	
IA 12 ASC 05 AK-K	> 300 Ω
IA 12 ALC 03 AK-K	$>$ 300 Ω
Detecting range	
IA 12 ASC 05 AK-K	0.3 - 5 mm
IA 12 ALC 03 AK-K	0.3 - 3 mm
Linearity error	
IA 12 ASC 05 AK-K	< 3%
IA 12 ALC 03 AK-K	< 5%

Temperature drift	
IA 12 ASC 05 AK-K	< 5%
IA 12 ALC 03 AK-K	< 10%
Ambient temperature	
Operating	
IA 12 ASC 05 AK-K	0° to +70°C (32° to +158°F)
IA 12 ALC 03 AK-K	-10° to +70°C (14° to +158°F)
Storage	-30° to +75°C (-22° to +167°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material	Nickel-plated brass
CE-marking	Yes
CE-marking Connection	Yes
Connection	2 m, PVC, AWG 24
Connection	

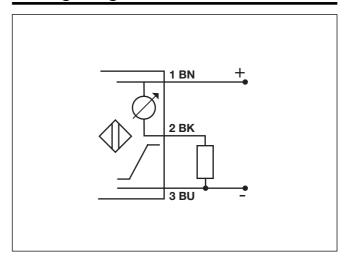


Dimensions

M12 x 1 40 50 IA 12 ASC 05 AK-K



Wiring Diagram



Installation Hints

