Proximity Sensors Inductive Analogue Voltage Output, Nickel-plated Brass Housing CARLO GAVAZZI 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 Type · 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

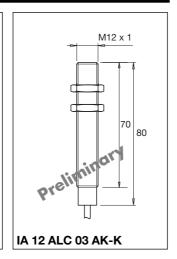
Specifications

| Rated operational volt. (U _B) IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | 17 to 30 VDC (ripple included) 18 to 30 VDC (ripple included) | Temperature drift IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | < 5% < 10% |
|---|--|---|--|
| Ripple | ≤ 10% | Ambient temperature | |
| Output voltage IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | 0 to 10 V 1 to 10 V | Operating IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K Storage | 0° to +70°C (32° to +158°F) -10° to +70°C (14° to +158°F) -30° to +75°C (-22° to +167°F) |
| No-load supply current (I _o) | . 00 1 | Degree of protection | IP 67 (Nema 1, 3, 4, 6, 13) |
| IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | < 22 mA < 20 mA | Housing material | Nickel-plated brass |
| Load | | CE-marking | Yes |
| IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | $> 300 \Omega$ $> 300 \Omega$ | Connection Cable | 2 m, PVC, AWG 24 |
| Detecting range IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | 0.3 - 5 mm 0.3 - 3 mm | | ,, |
| Linearity error IA 12 ASC 05 AK-K IA 12 ALC 03 AK-K | < 3% < 5% | | |

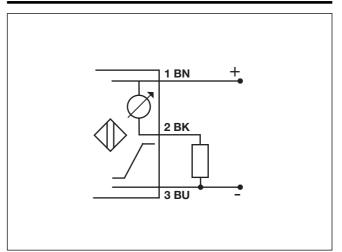


Dimensions

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



Wiring Diagram



Installation Hints

