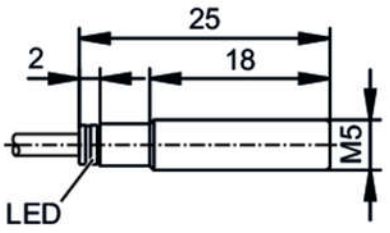
# IY5069

## Inductive sensor

IYB31,5-ANKG/2m




| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | NPN |
| Output function | | normally open |
| Sensing range | [mm] | 1.5 |
| Housing | | threaded type |
| Dimensions | [mm] | M5 x 0.5 / L = 25 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | 15;  (24 V) |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | NPN |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 2000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 1.5 |
| Real sensing range Sr | [mm] | 1.5 ± 10 % |
| Operating distance | [mm] | 0...1.2 |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 1...15 |
| Switch point drift | [% of Sr] | -10...10 |
| **Operating conditions** | | |
| Ambient temperature | [°C] | -25...70 |
| Protection | | IP 65; IP 67 |

# IY5069

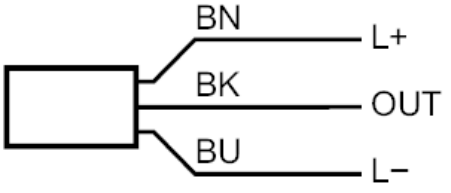
## Inductive sensor

IYB31,5-ANKG/2m

| | | | |
|---|---|---|---|
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 10 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 10 V |
| | | EN 55011 | class B |
| **Mechanical data** | | | |
| Weight | [g] | 22.7 | |
| Housing | | threaded type | |
| Mounting | | flush mountable | |
| Dimensions | [mm] | M5 x 0.5 / L = 25 | |
| Thread designation | | M5 x 0.5 | |
| Materials | | housing: stainless steel (303/1.4305); sensing face: POM; LED ring: PA | |
| Tightening torque | [Nm] | 2 | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED ring, yellow cable entry lights translucently |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |
| **Electrical connection** | | | |

Cable: 2 m, PUR; 3 x 0.08 mm²

Connection




| | |
|---|---|
| BN: | L+ |
| BK: | OUT DO (NO) |
| BU: | L- |