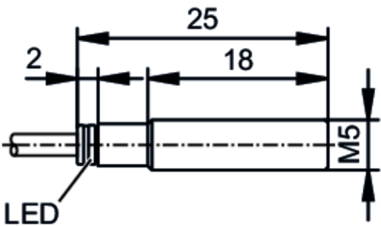


# IY5069



## 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



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| 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           |

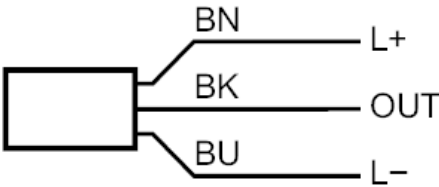
| Mechanical data    |      |                                                                        |
|--------------------|------|------------------------------------------------------------------------|
| Weight             | [g]  | 22.7                                                                   |
| 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-          |