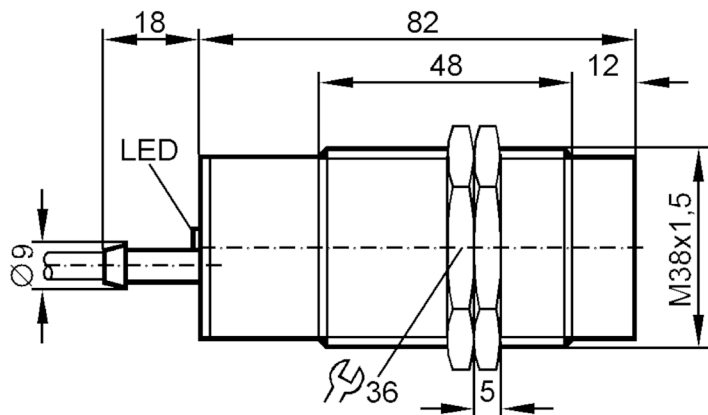




Inductive sensor

IK-2020-ABOA/SL/6M

Article no longer available - archive entry



| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Sensing range                                   | [mm] | 20                                              |
| Housing                                         |      | threaded type                                   |
| Dimensions                                      | [mm] | M38 x 1.5                                       |
| Electrical data                                 |      |                                                 |
| Operating voltage                               | [V]  | 20...250 AC/DC                                  |
| Protection class                                |      | I                                               |
| Reverse polarity protection                     |      | no                                              |
| Outputs                                         |      |                                                 |
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6.5                                             |
| Max. voltage drop switching output AC           | [V]  | 6.5                                             |
| Minimum load current                            | [mA] | 5                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 250; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 20                                              |

# IK0001



## Inductive sensor

IK-2020-ABOA/SL/6M

|                                      |                  |                                                                             |
|--------------------------------------|------------------|-----------------------------------------------------------------------------|
| Switching frequency DC               | [Hz]             | 20                                                                          |
| Short-circuit protection             |                  | no                                                                          |
| Overload protection                  |                  | no                                                                          |
| <b>Detection zone</b>                |                  |                                                                             |
| Sensing range                        | [mm]             | 20                                                                          |
| Real sensing range Sr                | [mm]             | 20 ± 10 %                                                                   |
| Operating distance                   | [mm]             | 0...16.2                                                                    |
| <b>Accuracy / deviations</b>         |                  |                                                                             |
| Correction factor                    |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                           | [X01]            | 3...15                                                                      |
| Switch point drift                   | [X01]            | -10...10                                                                    |
| <b>Operating conditions</b>          |                  |                                                                             |
| Ambient temperature                  | [°C]             | -25...80                                                                    |
| Protection                           |                  | IP 67                                                                       |
| <b>Tests / approvals</b>             |                  |                                                                             |
| EMC                                  | EN 60947-5-2     |                                                                             |
|                                      | EN 55011         | class B                                                                     |
| <b>Mechanical data</b>               |                  |                                                                             |
| Housing                              |                  | threaded type                                                               |
| Mounting                             |                  | non-flush mountable                                                         |
| Dimensions                           | [mm]             | M38 x 1.5                                                                   |
| Thread designation                   |                  | M38 x 1.5                                                                   |
| Materials                            |                  | brass nickel-plated; PBT                                                    |
| <b>Displays / operating elements</b> |                  |                                                                             |
| Display                              | switching status | 1 x LED, yellow                                                             |
| <b>Аксессуары</b>                    |                  |                                                                             |
| Items supplied                       |                  | lock nuts: 2                                                                |
| <b>Remarks</b>                       |                  |                                                                             |
| Pack quantity                        |                  | 1 pcs.                                                                      |

# IK0001



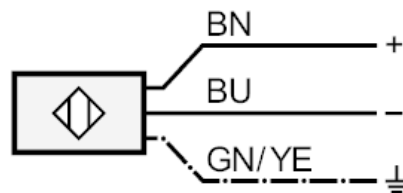
## Inductive sensor

IK-2020-ABOA/SL/6M

### Electrical connection

Cable: 6 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



|         |                |
|---------|----------------|
| BN =    | Core colours : |
| BU =    | brown          |
| GN/YE = | blue           |
|         | green/yellow   |