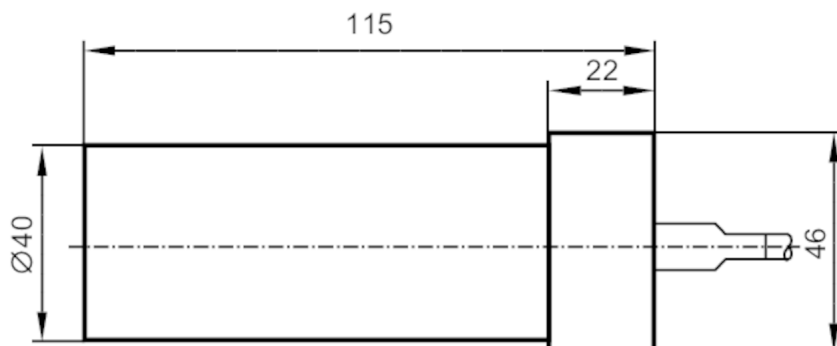




## Inductive sensor

IB-2020ZABOA/15M/KHI

Article no longer available - archive entry



### Product characteristics

|                 |      |                |
|-----------------|------|----------------|
| Output function |      | normally open  |
| Sensing range   | [mm] | 20             |
| Housing         |      | cylindrical    |
| Dimensions      | [mm] | Ø 40 / L = 115 |

### Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

### Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| 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] | 100; (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] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

### Detection zone

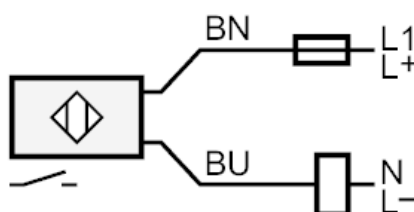
|                       |      |           |
|-----------------------|------|-----------|
| Sensing range         | [mm] | 20        |
| Real sensing range Sr | [mm] | 20 ± 10 % |
| Operating distance    | [mm] | 0...16.2  |



## Inductive sensor

IB-2020ZABOA/15M/KHI

| Accuracy / deviations               |           |                                                                             |                                                                                               |
|-------------------------------------|-----------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Correction factor                   |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4 |                                                                                               |
| Hysteresis                          | [% of Sr] | 1...20                                                                      |                                                                                               |
| Switch point drift                  | [% of Sr] | -10...10                                                                    |                                                                                               |
| Operating conditions                |           |                                                                             |                                                                                               |
| Ambient temperature                 |           | [°C]                                                                        | -25...100                                                                                     |
| Protection                          |           |                                                                             | IP 67                                                                                         |
| Tests / approvals                   |           |                                                                             |                                                                                               |
| EMC                                 |           | EN 60947-5-2                                                                |                                                                                               |
|                                     |           | EN 55011                                                                    | class B                                                                                       |
| Mechanical data                     |           |                                                                             |                                                                                               |
| Weight                              |           | [g]                                                                         | 1260.987                                                                                      |
| Housing                             |           |                                                                             | cylindrical                                                                                   |
| Mounting                            |           |                                                                             | non-flush mountable                                                                           |
| Dimensions                          |           | [mm]                                                                        | Ø 40 / L = 115                                                                                |
| Materials                           |           |                                                                             | housing: MC Nylon; Mounting clamp: MC Nylon;<br>End cap: stainless steel (1.4303 / 305 / 308) |
| Electrical connection               |           |                                                                             |                                                                                               |
| Required protection                 |           |                                                                             | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                                      |
| Accessories                         |           |                                                                             |                                                                                               |
| Items supplied                      |           |                                                                             | Mounting clamps: 1                                                                            |
| Remarks                             |           |                                                                             |                                                                                               |
| Remarks                             |           |                                                                             | Recommendation: Check the safe functioning of the unit after a short circuit.                 |
| Pack quantity                       |           |                                                                             | 1 pcs.                                                                                        |
| Electrical connection               |           |                                                                             |                                                                                               |
| Cable: 15 m, silicone; 2 x 0.75 mm² |           |                                                                             |                                                                                               |
| Connection                          |           |                                                                             |                                                                                               |



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colours :

BN = brown  
BU = blue