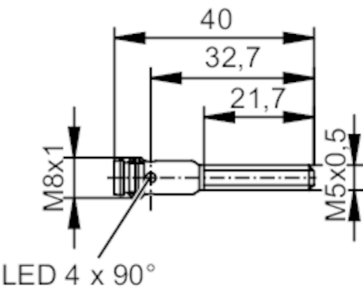


# IY5064



## Inductive sensor

IYB3-1,5-BNKG/AS



### Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | NPN               |
| Output function    | normally closed   |
| Sensing range [mm] | 1.5               |
| Housing            | Threaded type     |
| Dimensions [mm]    | M5 x 0.5 / L = 40 |

### 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 closed    |
| 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                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 1.5            |
| Real sensing range $S_r$ [mm] | $1.5 \pm 10\%$ |
| Operating distance [mm]       | 0...1.2        |

### Accuracy / deviations

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                     |
| Switch-point drift [% of $S_r$ ] | -10...10                                                                   |

### Operating conditions

|                          |              |
|--------------------------|--------------|
| Ambient temperature [°C] | -25...70     |
| Protection               | IP 65; IP 67 |

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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                                                                      |
| UL approval                   | Ta                        | -25...70 °C                                                                  |
|                               | Enclosure type            | Type 1                                                                       |
|                               | voltage supply            | Limited Voltage/Current                                                      |
|                               | UL approval number        | A053                                                                         |
|                               | File number UL            | E174191                                                                      |
| Mechanical data               |                           |                                                                              |
| Weight                        | [g]                       | 10.8                                                                         |
| Housing                       |                           | Threaded type                                                                |
| Mounting                      |                           | flush mountable                                                              |
| Dimensions                    | [mm]                      | M5 x 0.5 / L = 40                                                            |
| Thread designation            |                           | M5 x 0.5                                                                     |
| Material                      |                           | housing: stainless steel (1.4305 / 303); LED window: PPSU; sensing face: POM |
| Tightening torque             | [Nm]                      | 2                                                                            |
| Displays / operating elements |                           |                                                                              |
| Display                       | Switching status          | 4 x 90° LED, yellow                                                          |
| Accessories                   |                           |                                                                              |
| Items supplied                |                           | lock nuts: 2                                                                 |
| Remarks                       |                           |                                                                              |
| Pack quantity                 |                           | 1 pcs.                                                                       |
| Electrical connection - plug  |                           |                                                                              |
| Connector: 1 x M8; coding: A  |                           |                                                                              |
|                               |                           |                                                                              |



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### Connection

