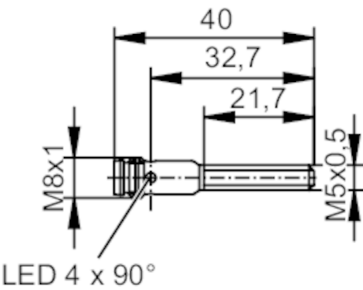


# IY5063



## Inductive sensor

IYB3-1,5-APKG/AS



| Product characteristics                         |           |                                                                             |
|-------------------------------------------------|-----------|-----------------------------------------------------------------------------|
| Electrical design                               |           | PNP                                                                         |
| 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                               |           | PNP                                                                         |
| 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                |           | 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                                                                |

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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]  | 10.4                                                                       |
| Housing            |      | threaded type                                                              |
| Mounting           |      | flush mountable                                                            |
| Dimensions         | [mm] | M5 x 0.5 / L = 40                                                          |
| Thread designation |      | M5 x 0.5                                                                   |
| Materials          |      | housing: stainless steel (303/1.4305); 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



Connection

