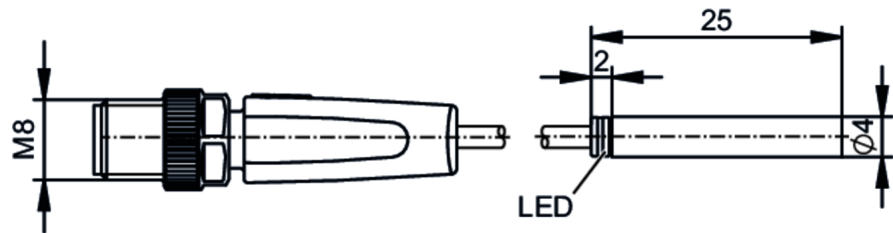


# IZ5055



## Inductive sensor

IZB31,2-BPKG/V2A/0,3M/AS-610



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 1.2           |
| Housing            | cylindrical   |
| Dimensions [mm]    | Ø 4 / L = 25  |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| 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]      | 1.2      |
| Operating distance [mm] | 0...0.97 |

### Accuracy / deviations

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Correction factor    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr] | 1...15                                                                      |

### 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                                               |
| MTTF                                            | [years]                   | 2060                                                  |
| Mechanical data                                 |                           |                                                       |
| Weight                                          | [g]                       | 21.2                                                  |
| Housing                                         |                           | cylindrical                                           |
| Mounting                                        |                           | flush mountable                                       |
| Dimensions                                      | [mm]                      | Ø 4 / L = 25                                          |
| Materials                                       |                           | stainless steel (303/1.4305); sensing face: POM       |
| Displays / operating elements                   |                           |                                                       |
| Display                                         | switching status          | 1 x LED ring, yellow cable entry lights translucently |
| Accessories                                     |                           |                                                       |
| Items supplied                                  |                           | Mounting clamps: 1                                    |
| Remarks                                         |                           |                                                       |
| Pack quantity                                   |                           | 1 pcs.                                                |
| Electrical connection - plug                    |                           |                                                       |
| Cable: 0.3 m, PUR                               |                           |                                                       |
| Connector: 1 x M8; coding: A; Locking: snap-fit |                           |                                                       |
|                                                 |                           |                                                       |

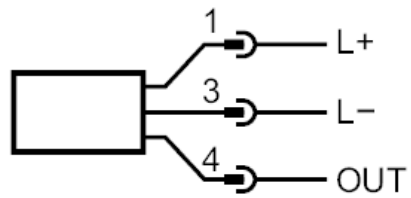
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### Connection



|   |     |         |
|---|-----|---------|
| 1 | L+  |         |
| 3 | L-  |         |
| 4 | OUT | DO (NO) |

DO: digital output; NO: normally open