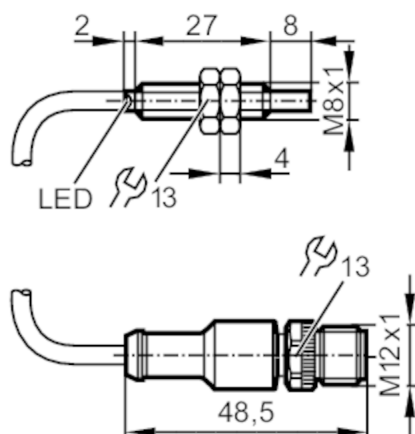


## Inductive sensor

IEBC005-ASKG/0,3M/US



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP/NPN         |
| Output function    | normally open   |
| Sensing range [mm] | 5               |
| Housing            | threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 37 |

## Electrical data

|                             |                                  |
|-----------------------------|----------------------------------|
| Operating voltage [V]       | 10...30 DC                       |
| Current consumption [mA]    | < 10; (only in 3-wire operation) |
| Protection class            | III                              |
| Reverse polarity protection | yes                              |

## Outputs

|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Electrical design                                    | PNP/NPN                         |
| Output function                                      | normally open                   |
| Max. voltage drop switching output DC [V]            | 2.8                             |
| Minimum load current [mA]                            | 2; (only in 2-wire operation)   |
| Max. leakage current [mA]                            | 0.5; (only in 2-wire operation) |
| Permanent current rating of switching output DC [mA] | 100                             |
| Switching frequency DC [Hz]                          | 700                             |
| Short-circuit protection                             | yes                             |
| Type of short-circuit protection                     | pulsed                          |
| Overload protection                                  | yes                             |

## Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 5        |
| Real sensing range Sr [mm] | 5 ± 10 % |
| Operating distance [mm]    | 0...4.05 |



## Inductive sensor

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| 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] 0...60                                                                 |                         |
| Protection                    |           | IP 67                                                                       |                         |
| Tests / approvals             |           |                                                                             |                         |
| EMC                           |           | EN 60947-5-2                                                                |                         |
| MTTF                          |           | [years] 2988                                                                |                         |
| UL approval                   |           | Ta                                                                          | -25...80 °C             |
|                               |           | Enclosure type                                                              | Type 1                  |
|                               |           | power supply                                                                | Limited Voltage/Current |
|                               |           | File number UL                                                              | E174191                 |
| Mechanical data               |           |                                                                             |                         |
| Weight                        |           | [g] 30.5                                                                    |                         |
| Housing                       |           | threaded type                                                               |                         |
| Mounting                      |           | non-flush mountable                                                         |                         |
| Dimensions                    |           | [mm] M8 x 1 / L = 37                                                        |                         |
| Thread designation            |           | M8 x 1                                                                      |                         |
| Materials                     |           | brass white bronze coated; sensing face: LCP                                |                         |
| Displays / operating elements |           |                                                                             |                         |
| Display                       |           | switching status 1 x LED, yellow                                            |                         |
| Accessories                   |           |                                                                             |                         |
| Items supplied                |           | lock nuts: 2                                                                |                         |
| Remarks                       |           |                                                                             |                         |
| Pack quantity                 |           | 1 pcs.                                                                      |                         |

# IE5352



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### Electrical connection - plug

Cable: 0.3 m, PVC; 3 x 0.14 mm<sup>2</sup>

Connector: 1 x M12; coding: A; Locking: rotatable

