

# IE5248

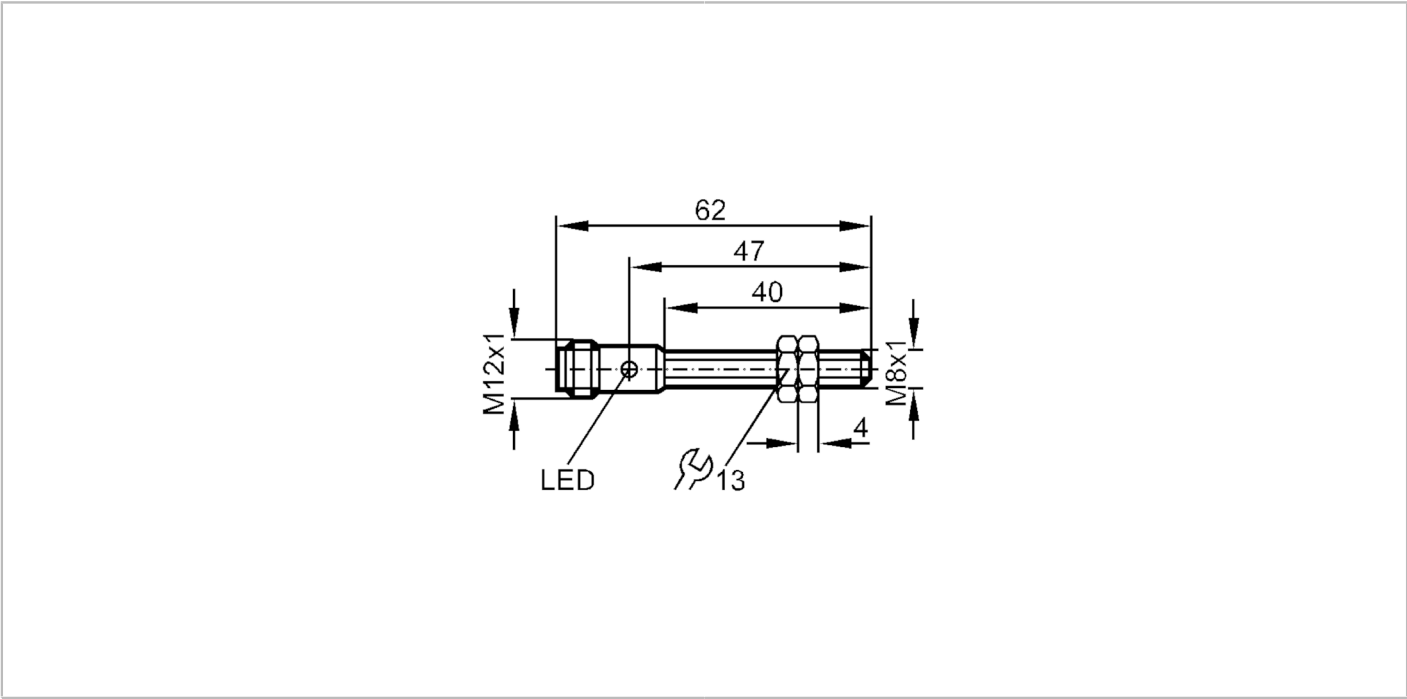


## Inductive sensor

IEK3002BBPOG/US-100-DPS

Article no longer available - archive entry

Alternative articles: IE5257  
When selecting an alternative article and accessories please note that technical data may differ!



| Product characteristics                              |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Sensing range [mm]                                   | 2             |
| Housing                                              | Threaded type |
| Dimensions [mm]                                      | M8 x 1        |
| Electrical data                                      |               |
| Operating voltage [V]                                | 10...30 DC    |
| Current consumption [mA]                             | 15; (24 V)    |
| Protection class                                     | II            |
| 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] | 200           |
| Switching frequency DC [Hz]                          | 1000          |
| Short-circuit protection                             | yes           |

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|                                  |                    |
|----------------------------------|--------------------|
| Type of short-circuit protection | yes (non-latching) |
| Overload protection              | yes                |

|                               |               |
|-------------------------------|---------------|
| <b>Monitoring range</b>       |               |
| Sensing range [mm]            | 2             |
| Real sensing range $S_r$ [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]       | 0...1.62      |

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| <b>Accuracy / deviations</b>     |                                                                            |
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                     |
| Switch-point drift [% of $S_r$ ] | -10...10                                                                   |

|                             |          |
|-----------------------------|----------|
| <b>Operating conditions</b> |          |
| Ambient temperature [°C]    | -25...80 |
| Protection                  | IP 67    |

|                          |              |         |
|--------------------------|--------------|---------|
| <b>Tests / approvals</b> |              |         |
| EMC                      | EN 60947-5-2 |         |
|                          | EN 55011     | class B |

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <b>Mechanical data</b> |                                                       |
| Housing                | Threaded type                                         |
| Mounting               | flush mountable                                       |
| Dimensions [mm]        | M8 x 1                                                |
| Thread designation     | M8 x 1                                                |
| Material               | housing: brass white bronze coated; sensing face: PBT |

|                                      |                  |                 |
|--------------------------------------|------------------|-----------------|
| <b>Displays / operating elements</b> |                  |                 |
| Display                              | Switching status | 1 x LED, yellow |

|                    |              |
|--------------------|--------------|
| <b>Accessories</b> |              |
| Items supplied     | lock nuts: 2 |

|                |        |
|----------------|--------|
| <b>Remarks</b> |        |
| Pack quantity  | 1 pcs. |

### Electrical connection - plug

Connector: 1 x M12; coding: A



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### Connection

