

# IG5810

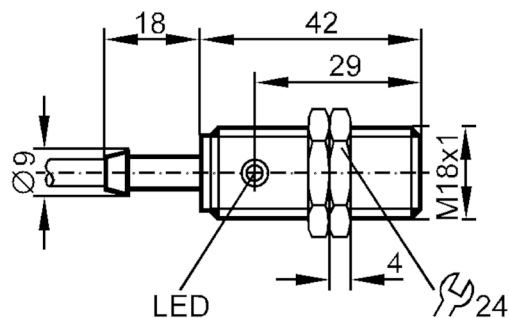


## Inductive sensor

IGB2005-FRKG/10M/PH

Article no longer available - archive entry

Alternative articles: IG5595  
When selecting an alternative article and accessories please note that technical data may differ!



| Product characteristics                         |      |                                      |
|-------------------------------------------------|------|--------------------------------------|
| Electrical design                               |      | PNP/NPN                              |
| Output function                                 |      | normally open / closed; (selectable) |
| Sensing range                                   | [mm] | 5                                    |
| Housing                                         |      | Threaded type                        |
| Dimensions                                      | [mm] | M18 x 1                              |
| Electrical data                                 |      |                                      |
| Operating voltage                               | [V]  | 10...36 DC                           |
| Protection class                                |      | II                                   |
| Reverse polarity protection                     |      | yes                                  |
| Outputs                                         |      |                                      |
| Electrical design                               |      | PNP/NPN                              |
| Output function                                 |      | normally open / closed; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 4.6                                  |
| Minimum load current                            | [mA] | 4                                    |
| Max. leakage current                            | [mA] | 0.8                                  |
| Permanent current rating of switching output DC | [mA] | 150                                  |
| Switching frequency DC                          | [Hz] | 700                                  |
| Short-circuit protection                        |      | yes                                  |

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|                                  |                                                                            |                 |
|----------------------------------|----------------------------------------------------------------------------|-----------------|
| Type of short-circuit protection | yes (non-latching)                                                         |                 |
| Overload protection              | yes                                                                        |                 |
| Monitoring range                 |                                                                            |                 |
| Sensing range                    | [mm]                                                                       | 5               |
| Real sensing range Sr            | [mm]                                                                       | 5 ± 10 %        |
| Operating distance               | [mm]                                                                       | 0...4.05        |
| Accuracy / deviations            |                                                                            |                 |
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |                 |
| Hysteresis                       | [% of Sr]                                                                  | 3...15          |
| Switch-point drift               | [% of Sr]                                                                  | -10...10        |
| Operating conditions             |                                                                            |                 |
| Ambient temperature              | [°C]                                                                       | -25...80        |
| Protection                       | IP 67                                                                      |                 |
| Tests / approvals                |                                                                            |                 |
| EMC                              | EN 60947-5-2                                                               |                 |
|                                  | EN 55011                                                                   | class B         |
| Mechanical data                  |                                                                            |                 |
| Housing                          | Threaded type                                                              |                 |
| Mounting                         | flush mountable                                                            |                 |
| Dimensions                       | [mm]                                                                       | M18 x 1         |
| Thread designation               | M18 x 1                                                                    |                 |
| Material                         | brass nickel-plated; PC                                                    |                 |
| Displays / operating elements    |                                                                            |                 |
| Display                          | Switching status                                                           | 1 x LED, yellow |
| Accessories                      |                                                                            |                 |
| Items supplied                   | lock nuts: 2                                                               |                 |
| Remarks                          |                                                                            |                 |
| Pack quantity                    | 1 pcs.                                                                     |                 |

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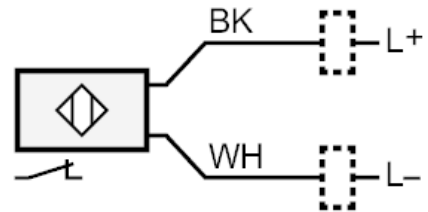
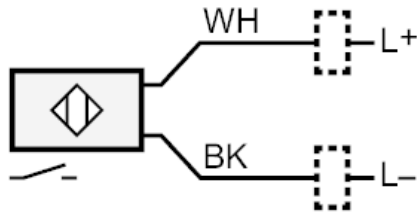
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### Electrical connection

Cable: 10 m, PUR; 2 x 0.34 mm<sup>2</sup>

### Connection



BK =  
WH =

Core colors :  
black  
white