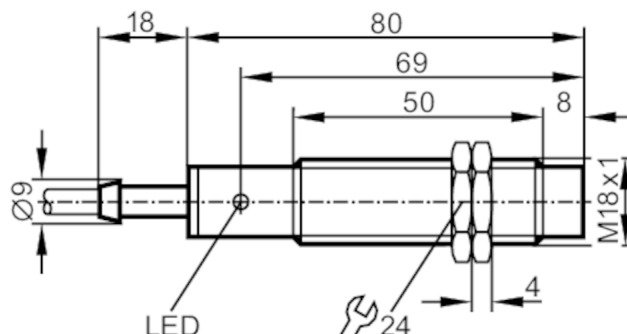


## Inductive sensor

IGA2008-FRKG/V4A/6M/PH



### Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP/NPN                                       |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 8                                             |
| Housing            | threaded type                                 |
| Dimensions [mm]    | M18 x 1 / L = 80                              |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP/NPN                                       |
| Output function                                      | normally open / normally 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] | 400                                           |
| Switching frequency DC [Hz]                          | 300                                           |
| Short-circuit protection                             | yes                                           |
| Type of short-circuit protection                     | pulsed                                        |
| Overload protection                                  | yes                                           |

### Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 8             |
| Real sensing range $S_r$ [mm] | $8 \pm 10 \%$ |
| Operating distance [mm]       | 0...6.5       |

### Accuracy / deviations

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

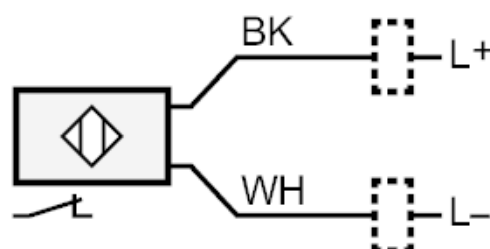
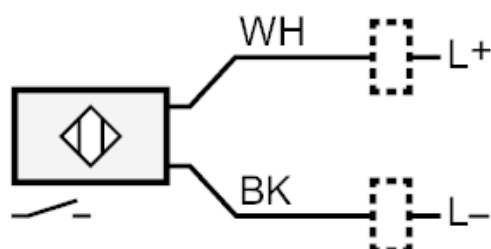
# IG5764



## Inductive sensor

IGA2008-FRKG/V4A/6M/PH

| Operating conditions                     |                  |                                                 |
|------------------------------------------|------------------|-------------------------------------------------|
| Ambient temperature                      | [°C]             | -25...80                                        |
| Protection                               |                  | IP 67                                           |
| Tests / approvals                        |                  |                                                 |
| EMC                                      | EN 60947-5-2     |                                                 |
|                                          | EN 55011         | class B                                         |
| MTTF                                     | [years]          | 1806                                            |
| Mechanical data                          |                  |                                                 |
| Weight                                   | [g]              | 317.5                                           |
| Housing                                  |                  | threaded type                                   |
| Mounting                                 |                  | non-flush mountable                             |
| Dimensions                               | [mm]             | M18 x 1 / L = 80                                |
| Thread designation                       |                  | M18 x 1                                         |
| Materials                                |                  | stainless steel (1.4571/316Ti); TPE-E; ULTRASON |
| Displays / operating elements            |                  |                                                 |
| Display                                  | switching status | 1 x LED, yellow                                 |
| Accessories                              |                  |                                                 |
| Accessories (supplied)                   |                  | lock nuts: 2                                    |
| Remarks                                  |                  |                                                 |
| Pack quantity                            |                  | 1 pcs.                                          |
| Electrical connection                    |                  |                                                 |
| Cable: 6 m, PUR; 2 x 0.5 mm <sup>2</sup> |                  |                                                 |
| Connection                               |                  |                                                 |



Core colours :

BK = black

WH = white