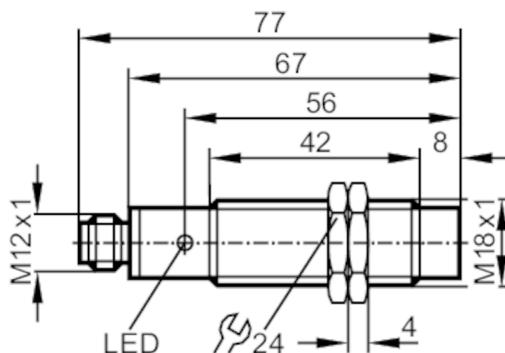




## Inductive sensor

IGA2008-FRKG/V4A/US-100-IRF/RT



### Product characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Electrical design  | PNP/NPN                              |
| Output function    | normally open / closed; (selectable) |
| Sensing range [mm] | 8                                    |
| Housing            | Threaded type                        |
| Dimensions [mm]    | M18 x 1 / L = 77                     |

### Application

|        |                      |
|--------|----------------------|
| System | gold-plated contacts |
|--------|----------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 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]                            | 0.6                                  |
| Permanent current rating of switching output DC [mA] | 300                                  |
| Switching frequency DC [Hz]                          | 300                                  |
| Short-circuit protection                             | yes                                  |
| Type of short-circuit protection                     | yes (non-latching)                   |
| Overload protection                                  | yes                                  |

### Monitoring range

|                               |              |
|-------------------------------|--------------|
| 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 / aluminum: 0.4 / copper: 0.3 |
|-------------------|----------------------------------------------------------------------------|

# IG5772



## Inductive sensor

IGA2008-FRKG/V4A/US-100-IRF/RT

|                               |                  |                                                    |
|-------------------------------|------------------|----------------------------------------------------|
| 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                                            |
| MTTF                          | [years]          | 1806                                               |
| UL approval                   | Ta               | 0...40 °C                                          |
|                               | Enclosure type   | Type 1                                             |
|                               | File number UL   | E174191                                            |
| Mechanical data               |                  |                                                    |
| Weight                        | [g]              | 62.9                                               |
| Housing                       |                  | Threaded type                                      |
| Mounting                      |                  | non-flush mountable                                |
| Dimensions                    | [mm]             | M18 x 1 / L = 77                                   |
| Thread designation            |                  | M18 x 1                                            |
| Material                      |                  | stainless steel (1.4571/316Ti ); sensing face: PBT |
| Displays / operating elements |                  |                                                    |
| Display                       | Switching status | 1 x LED, red                                       |
| Accessories                   |                  |                                                    |
| Items supplied                |                  | lock nuts: 2                                       |
| Remarks                       |                  |                                                    |
| Pack quantity                 |                  | 1 pcs.                                             |

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### Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated

