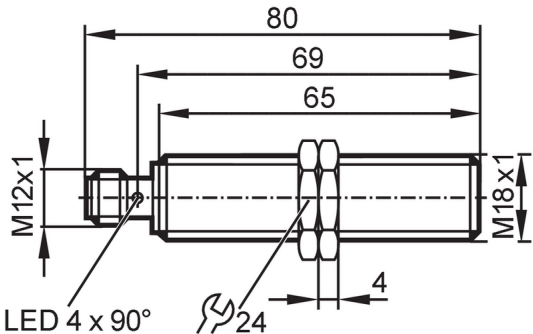


# IG5555



## Inductive sensor

IGA3005-APKG/US-104



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally closed  |
| Sensing range [mm] | 5                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 80 |

### Application

|                 |                      |
|-----------------|----------------------|
| Special feature | gold-plated contacts |
|-----------------|----------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 10       |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Electrical design                                    | PNP             |
| Output function                                      | normally closed |
| Max. voltage drop switching output DC [V]            | 2.5             |
| Permanent current rating of switching output DC [mA] | 200             |
| Switching frequency DC [Hz]                          | 500             |
| Short-circuit protection                             | yes             |
| 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: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis [% of Sr]         | 3...15                                                                     |
| Switch-point drift [% of Sr] | -10...10                                                                   |

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| Operating conditions                                                                |                           |                                                                                                                        |
|-------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature                                                                 | [°C]                      | -25...80                                                                                                               |
| Protection                                                                          |                           | IP 67                                                                                                                  |
| Tests / approvals                                                                   |                           |                                                                                                                        |
| EMC                                                                                 | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD                                                                                                      |
|                                                                                     | EN 61000-4-3 HF radiated  | 10 V/m                                                                                                                 |
|                                                                                     | EN 61000-4-4 Burst        | 2 kV                                                                                                                   |
|                                                                                     | EN 61000-4-6 HF conducted | 10 V                                                                                                                   |
|                                                                                     | EN 55011                  | class B                                                                                                                |
| MTTF                                                                                | [years]                   | 1083                                                                                                                   |
| Embedded software included                                                          |                           | no                                                                                                                     |
| UL approval                                                                         | Ta                        | 0...40 °C                                                                                                              |
|                                                                                     | Enclosure type            | Type 1                                                                                                                 |
|                                                                                     | voltage supply            | Limited Voltage/Current                                                                                                |
|                                                                                     | UL approval number        | A069                                                                                                                   |
|                                                                                     | File number UL            | E174191                                                                                                                |
| Mechanical data                                                                     |                           |                                                                                                                        |
| Weight                                                                              | [g]                       | 56.3                                                                                                                   |
| Housing                                                                             |                           | Threaded type                                                                                                          |
| Mounting                                                                            |                           | flush mountable                                                                                                        |
| Dimensions                                                                          | [mm]                      | M18 x 1 / L = 80                                                                                                       |
| Thread designation                                                                  |                           | M18 x 1                                                                                                                |
| Material                                                                            |                           | housing: brass white bronze coated; sensing face: PBT orange;<br>LED window: PEI; lock nuts: brass white bronze coated |
| Displays / operating elements                                                       |                           |                                                                                                                        |
| Display                                                                             | Switching status          | 4 x 90° LED, yellow                                                                                                    |
| Accessories                                                                         |                           |                                                                                                                        |
| Items supplied                                                                      |                           | lock nuts: 2                                                                                                           |
| Remarks                                                                             |                           |                                                                                                                        |
| Pack quantity                                                                       |                           | 1 pcs.                                                                                                                 |
| Electrical connection - plug                                                        |                           |                                                                                                                        |
| Connector: 1 x M12; coding: A; Contacts: gold-plated                                |                           |                                                                                                                        |
|  |                           |                                                                                                                        |

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### Connection

