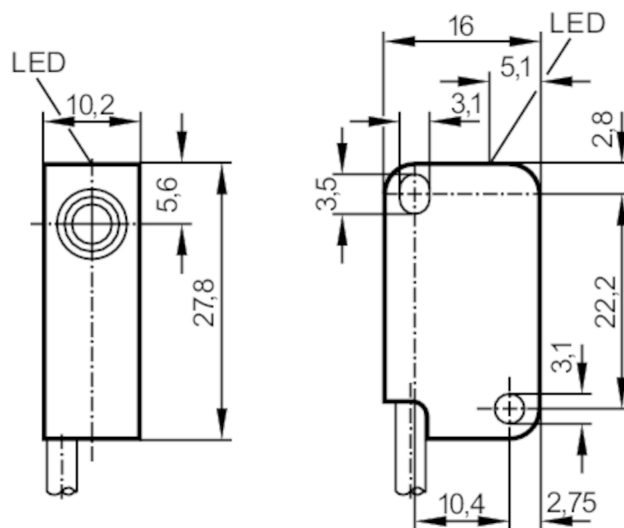




## Inductive sensor

IS-2002-FROG/0.15m/US100IRF



## Product characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Electrical design  | PNP/NPN                              |
| Output function    | normally open / closed; (selectable) |
| Sensing range [mm] | 2                                    |
| Housing            | rectangular                          |
| Dimensions [mm]    | 28 x 10 x 16                         |

## Electrical data

|                             |           |
|-----------------------------|-----------|
| Operating voltage [V]       | 5...36 DC |
| Reverse polarity protection | no        |

## 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] | 200                                  |
| Switching frequency DC [Hz]                          | 2000                                 |
| Short-circuit protection                             | no                                   |
| Overload protection                                  | no                                   |

## Monitoring range

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 2             |
| Real sensing range $S_r$ [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]       | 0...1.6       |

## Accuracy / deviations

|                                  |          |
|----------------------------------|----------|
| Hysteresis [% of $S_r$ ]         | 3...15   |
| Switch-point drift [% of $S_r$ ] | -10...20 |

IS8503



Inductive sensor

IS-2002-FROG/0.15m/US100IRF

| Operating conditions          |                  |                      |
|-------------------------------|------------------|----------------------|
| Ambient temperature           | [°C]             | -25...80             |
| Protection                    |                  | IP 67                |
| Tests / approvals             |                  |                      |
| EMC                           | EN 60947-5-2     |                      |
|                               | EN 55011         | class B              |
| Mechanical data               |                  |                      |
| Weight                        | [g]              | 22.68                |
| Housing                       |                  | rectangular          |
| Mounting                      |                  | flush mountable      |
| Dimensions                    | [mm]             | 28 x 10 x 16         |
| Material                      |                  | PBT                  |
| Tightening torque             | [Nm]             | < 0.5; (with washer) |
| Displays / operating elements |                  |                      |
| Display                       | Switching status | 1 x LED, yellow      |
| Remarks                       |                  |                      |
| Pack quantity                 |                  | 1 pcs.               |
| Electrical connection - plug  |                  |                      |
| Cable: 0.15 m, PUR / PVC      |                  |                      |
| Connector: 1 x M12            |                  |                      |
|                               |                  |                      |

