



## Inductive sensor

IS-3002-BPOG/PPU

Article no longer available - archive entry



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 2             |
| Housing            | rectangular   |
| Dimensions [mm]    | 28 x 10 x 16  |

## Electrical data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Operating voltage [V]       | 10...36 DC; (cULus - Class 2 source required) |
| Current consumption [mA]    | 15; (24 V)                                    |
| Protection class            | III                                           |
| Reverse polarity protection | no                                            |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 1             |
| Permanent current rating of switching output DC [mA] | 200           |
| Switching frequency DC [Hz]                          | 800           |
| Short-circuit protection                             | no            |
| Overload protection                                  | no            |

## Monitoring range

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

# IS5018



## Inductive sensor

IS-3002-BPOG/PPU

| Accuracy / deviations                           |                                                                            |                      |
|-------------------------------------------------|----------------------------------------------------------------------------|----------------------|
| Correction factor                               | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |                      |
| Hysteresis                                      | [% of Sr]                                                                  | 1...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]                                                                    | 3044                 |
| Mechanical data                                 |                                                                            |                      |
| 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                           |                                                                            |                      |
| Cable: 2 m, PUR / PVC; 3 x 0.14 mm <sup>2</sup> |                                                                            |                      |
| Connection                                      |                                                                            |                      |



Core colors :  
BN = brown  
BU = blue  
BK = black