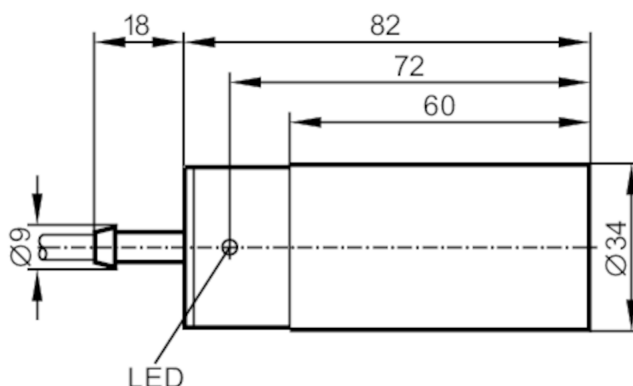




## Inductive sensor

IB-2020SFROG

Article no longer available - archive entry



### Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP; (self-monitoring system)                 |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 20                                            |
| Housing            | cylindrical                                   |
| Dimensions [mm]    | Ø 34 / L = 82                                 |

### Electrical data

|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| Connection to switching amplifiers | yes                                                    |
| Switching amplifiers               | connection to F400 control monitor or as 2-wire DC DNP |
| Operating voltage [V]              | 10...55 DC                                             |
| Reverse polarity protection        | no                                                     |

### Outputs

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP; (self-monitoring system)                 |
| Output function                                      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 6.5                                           |
| Minimum load current [mA]                            | 5                                             |
| Max. leakage current [mA]                            | 1.5                                           |
| Permanent current rating of switching output DC [mA] | 50                                            |
| Switching frequency DC [Hz]                          | 20                                            |
| Short-circuit protection                             | no                                            |
| Overload protection                                  | no                                            |

### Detection zone

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 20        |
| Real sensing range Sr [mm] | 20 ± 10 % |
| Operating distance [mm]    | 0...16.2  |

### Accuracy / deviations

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [X01]  | 1...15                                                                      |

# IB5008



## Inductive sensor

IB-2020SFROG

|                               |                  |                     |
|-------------------------------|------------------|---------------------|
| Switch point drift            | [X01]            | -10...10            |
| Operating conditions          |                  |                     |
| Ambient temperature           | [°C]             | -25...80            |
| Protection                    |                  | IP 67               |
| Tests / approvals             |                  |                     |
| EMC                           | EN 60947-5-2     |                     |
|                               | EN 55011         | class B             |
| Mechanical data               |                  |                     |
| Housing                       |                  | cylindrical         |
| Mounting                      |                  | non-flush mountable |
| Dimensions                    | [mm]             | Ø 34 / L = 82       |
| Materials                     |                  | PBT; end cap: PC    |
| Displays / operating elements |                  |                     |
| Display                       | switching status | 1 x LED, yellow     |
| Аксессуары                    |                  |                     |
| Items supplied                |                  | кріпильні хомути: 1 |
| Remarks                       |                  |                     |
| Pack quantity                 |                  | 1 pcs.              |



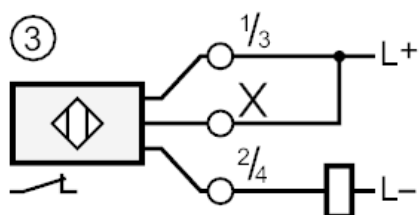
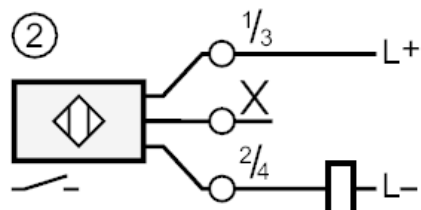
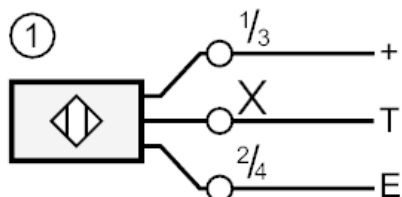
## Inductive sensor

IB-2020SFROG

### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



- 1 = connection to F400  
 2 = Connection 2-wire DC  
 3 = Connection 2-wire DC  
 Core colours :  
 BK = black  
 BN = brown  
 BU = blue