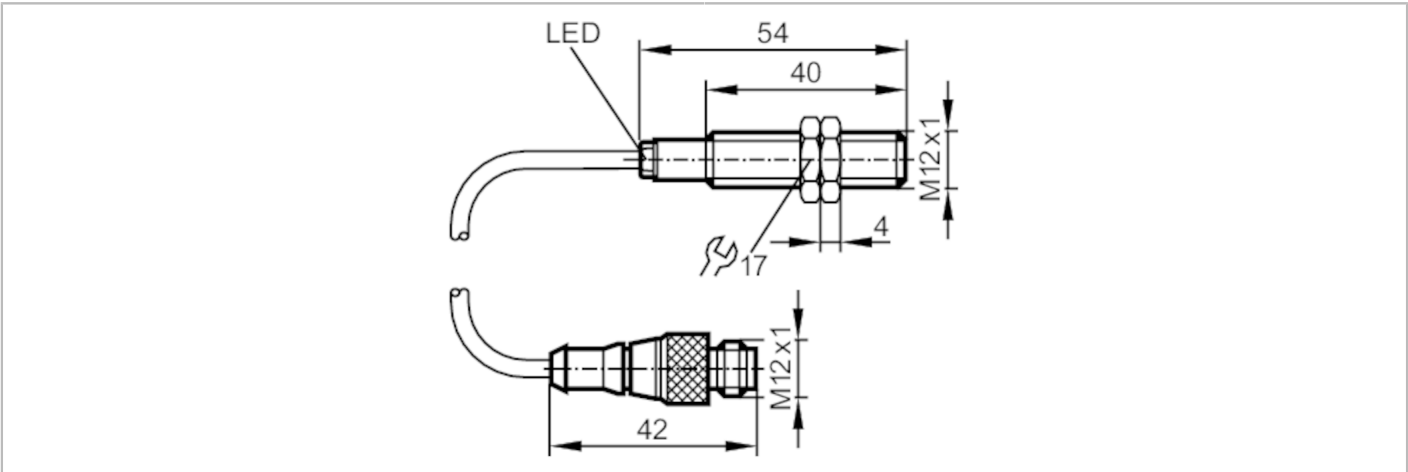




Inductive sensor

IFB2002-ARKG/UP/0,8M/US RT



| Product characteristics                              |                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------|
| Electrical design                                    | PNP/NPN                                                                     |
| Output function                                      | normally open                                                               |
| Sensing range [mm]                                   | 2                                                                           |
| Housing                                              | threaded type                                                               |
| Dimensions [mm]                                      | M12 x 1 / L = 54                                                            |
| Electrical data                                      |                                                                             |
| Operating voltage [V]                                | 10...55 DC                                                                  |
| Protection class                                     | II                                                                          |
| Reverse polarity protection                          | yes                                                                         |
| Outputs                                              |                                                                             |
| Electrical design                                    | PNP/NPN                                                                     |
| Output function                                      | normally open                                                               |
| Max. voltage drop switching output DC [V]            | 4.6                                                                         |
| Minimum load current [mA]                            | 2                                                                           |
| Max. leakage current [mA]                            | 0.6                                                                         |
| Permanent current rating of switching output DC [mA] | 100                                                                         |
| Switching frequency DC [Hz]                          | 800                                                                         |
| Notes on switching frequency [Hz]                    | at I (load) ≥ 10 mA                                                         |
| Short-circuit protection                             | yes                                                                         |
| Type of short-circuit protection                     | pulsed                                                                      |
| Overload protection                                  | yes                                                                         |
| Detection zone                                       |                                                                             |
| Sensing range [mm]                                   | 2                                                                           |
| Real sensing range Sr [mm]                           | 2 ± 10 %                                                                    |
| Operating distance [mm]                              | 0...1.6                                                                     |
| Accuracy / deviations                                |                                                                             |
| Correction factor                                    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |

# IF9920



## Inductive sensor

IFB2002-ARKG/UP/0,8M/US RT

|                    |           |          |
|--------------------|-----------|----------|
| 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 |      |
| MTTF | [years]      | 1912 |

### Mechanical data

|                    |      |                          |
|--------------------|------|--------------------------|
| Weight             | [g]  | 53                       |
| Housing            |      | threaded type            |
| Mounting           |      | flush mountable          |
| Dimensions         | [mm] | M12 x 1 / L = 54         |
| Thread designation |      | M12 x 1                  |
| Materials          |      | brass nickel-plated; PBT |

### Displays / operating elements

|         |                  |              |
|---------|------------------|--------------|
| Display | switching status | 1 x LED, red |
|---------|------------------|--------------|

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection - plug

Cable: 0.8 m, PUR

Connector: 1 x M12; coding: A

