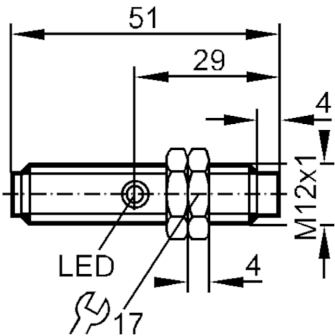


# IF5793



## Inductive sensor

IFB2004-ARKG/UP/US-100-IRS RT



| Product characteristics                         |      |                    |
|-------------------------------------------------|------|--------------------|
| Electrical design                               |      | PNP/NPN            |
| Output function                                 |      | normally open      |
| Sensing range                                   | [mm] | 4                  |
| Housing                                         |      | Threaded type      |
| Dimensions                                      | [mm] | M12 x 1            |
| Electrical data                                 |      |                    |
| Operating voltage                               | [V]  | 10...36 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] | 4                  |
| Max. leakage current                            | [mA] | 0.6                |
| Permanent current rating of switching output DC | [mA] | 150                |
| Switching frequency DC                          | [Hz] | 1500               |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

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| Monitoring range                                                                    |                  |                                                                            |
|-------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------|
| Sensing range                                                                       | [mm]             | 4                                                                          |
| Real sensing range Sr                                                               | [mm]             | 4 ± 10 %                                                                   |
| Operating distance                                                                  | [mm]             | 0...3.25                                                                   |
| 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]          | 2833                                                                       |
| Mechanical data                                                                     |                  |                                                                            |
| Weight                                                                              | [g]              | 25.9                                                                       |
| Housing                                                                             |                  | Threaded type                                                              |
| Mounting                                                                            |                  | non-flush mountable                                                        |
| Dimensions                                                                          | [mm]             | M12 x 1                                                                    |
| Thread designation                                                                  |                  | M12 x 1                                                                    |
| Material                                                                            |                  | brass nickel-plated; PC                                                    |
| Displays / operating elements                                                       |                  |                                                                            |
| Display                                                                             | Switching status | 1 x LED, red                                                               |
| Accessories                                                                         |                  |                                                                            |
| Items supplied                                                                      |                  | lock nuts: 2                                                               |
| Remarks                                                                             |                  |                                                                            |
| Pack quantity                                                                       |                  | 1 pcs.                                                                     |
| Electrical connection - plug                                                        |                  |                                                                            |
| Connector: 1 x M12; coding: A                                                       |                  |                                                                            |
|  |                  |                                                                            |

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### Connection

