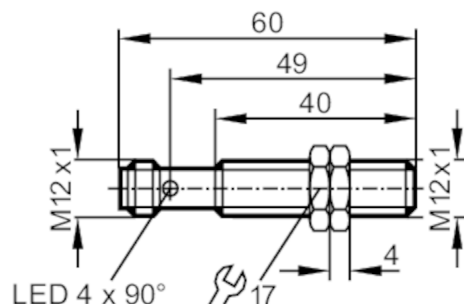


# IFT244



## Inductive full-metal sensor

IFK3003BANKG/AM/US-104-DNS



### Application

|                         |       |              |
|-------------------------|-------|--------------|
| Pressure rating         | [bar] | 100          |
| Note on pressure rating |       | sensing face |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | < 20       |
| Protection class            |      | III        |
| Reverse polarity protection |      | yes        |

### Outputs

|                                                 |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | NPN           |
| Output function                                 |      | normally open |
| Max. voltage drop switching output DC           | [V]  | 2.5           |
| Permanent current rating of switching output DC | [mA] | 100           |
| Switching frequency DC                          | [Hz] | 100           |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |

### Detection zone

|                         |      |         |
|-------------------------|------|---------|
| Sensing range           | [mm] | 3       |
| Operating distance      | [mm] | 0...2.4 |
| Increased sensing range |      | yes     |

### Accuracy / deviations

|                   |           |                                                                             |
|-------------------|-----------|-----------------------------------------------------------------------------|
| Correction factor |           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.1 |
| Hysteresis        | [% of Sr] | 1...20                                                                      |

### Operating conditions

|                     |      |               |
|---------------------|------|---------------|
| Ambient temperature | [°C] | 0...100       |
| Protection          |      | IP 68; IP 69K |

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| Tests / approvals                                                                              |                           |                                                                                                                                                             |
|------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC                                                                                            | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD                                                                                                                                           |
|                                                                                                | EN 61000-4-3 HF radiated  | 10 V/m                                                                                                                                                      |
|                                                                                                | EN 61000-4-4 Burst        | 2 kV                                                                                                                                                        |
|                                                                                                | EN 61000-4-6 HF conducted | 10 V                                                                                                                                                        |
|                                                                                                | EN 55011 emission         | class B                                                                                                                                                     |
| Impact resistance                                                                              | DIN EN 60068-2-75 Ehc     | 1 J                                                                                                                                                         |
| MTTF                                                                                           | [years]                   | 1691                                                                                                                                                        |
| UL approval                                                                                    | Ta                        | 0...40 °C                                                                                                                                                   |
|                                                                                                | Enclosure type            | Type 1                                                                                                                                                      |
|                                                                                                | voltage supply            | Limited Voltage/Current                                                                                                                                     |
|                                                                                                | File number UL            | E174191                                                                                                                                                     |
| Mechanical data                                                                                |                           |                                                                                                                                                             |
| Weight                                                                                         | [g]                       | 28.8                                                                                                                                                        |
| Housing                                                                                        |                           | threaded type                                                                                                                                               |
| Mounting                                                                                       |                           | flush mountable                                                                                                                                             |
| Dimensions                                                                                     | [mm]                      | M12 x 1 / L = 60                                                                                                                                            |
| Thread designation                                                                             |                           | M12 x 1                                                                                                                                                     |
| Materials                                                                                      |                           | housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); connector housing: PEI; lock nuts: stainless steel (1.4404 / 316L) |
| Full-metal housing                                                                             |                           | yes                                                                                                                                                         |
| Displays / operating elements                                                                  |                           |                                                                                                                                                             |
| Display                                                                                        | switching status          | 4 x 90° LED, yellow                                                                                                                                         |
| Accessories                                                                                    |                           |                                                                                                                                                             |
| Accessories (supplied)                                                                         |                           | lock nuts: 2                                                                                                                                                |
| Remarks                                                                                        |                           |                                                                                                                                                             |
| Pack quantity                                                                                  |                           | 1 pcs.                                                                                                                                                      |
| Electrical connection - plug                                                                   |                           |                                                                                                                                                             |
| Connector: 1 x M12; Contacts: gold-plated                                                      |                           |                                                                                                                                                             |
| <div></div> |                           |                                                                                                                                                             |

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### Connection

