

**Basic features**

|                            |   |
|----------------------------|---|
| <b>Approval/Conformity</b> | CE<br>cULus<br>EAC<br>WEEE              |
| <b>Component</b>           | Base                                    |
| <b>Function</b>            | IO-Link signal transmission             |
| <b>Use</b>                 | for inductive coupler remote<br>BIC0071 |

**Display/Operation**

|                                      |     |
|--------------------------------------|-----|
| <b>Active transmission indicator</b> | yes |
| <b>Function indicator</b>            | yes |
| <b>Power indicator</b>               | yes |

**Electrical connection**

|                                 |                   |
|---------------------------------|-------------------|
| <b>Connection 1</b>             | M12x1-Male, 4-pin |
| <b>Connection 2</b>             | 4-pin             |
| <b>Short-circuit protection</b> | yes               |

**Electrical data**

|                                      |                |
|--------------------------------------|----------------|
| <b>Rated operating current Ie</b>    | 1000 mA        |
| <b>Rated operating voltage Ue DC</b> | 24 V           |
| <b>Ripple max. (% of Ue)</b>         | 10 %           |
| <b>Signal type</b>                   | bi-directional |
| <b>Type of master port</b>           | A              |

**Environmental conditions**

|                              |                      |
|------------------------------|----------------------|
| <b>Ambient temperature</b>   | -5...65 °C           |
| <b>Interference immunity</b> | EN 61000-4-2/3/4/5/6 |
| <b>Protection degree</b>     | IP67                 |
| <b>Storage temperature</b>   | -25...70 °C          |

**Functional safety**

|                     |       |
|---------------------|-------|
| <b>MTTF (40 °C)</b> | 304 a |
|---------------------|-------|

**Material**

|                                 |      |
|---------------------------------|------|
| <b>Housing material</b>         | PBTP |
| <b>Material sensing surface</b> | PBTP |

Inductive Couplers  
**BIC 1B0-ITA50-Q40KFU-SM4A4A**  
Order Code: BIC0070

**BALLUFF**

**Mechanical data**

|                           |                  |
|---------------------------|------------------|
| Dimension                 | 40 x 40 x 62 mm  |
| Frame type                | Device dependent |
| Installation              | non-flush        |
| Offset                    | ±5 mm            |
| Tightening torque max.    | 40 Nm            |
| Tightening torque pigtail | 0.6 Nm           |
| Weight                    | 150 g            |

**Output/Interface**

|                         |                   |
|-------------------------|-------------------|
| Additive cycle time     | Device + 2.0 ms   |
| IO-Link version         | 1.1               |
| Interface               | IO-Link 1.1       |
| Process data IN         | 0...32 bytes      |
| Process data OUT        | 0...32 bytes      |
| Process data cycle min. | 2 ms              |
| SIO mode                | yes               |
| Transfer rate           | COM2 (38.4 kBaud) |

**Range/Distance**

|                       |          |
|-----------------------|----------|
| Range                 | 0...5 mm |
| Transmission distance | 0...5 mm |

**Remarks**

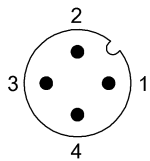
For additional information, refer to user's guide.

Order accessories separately.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

**Connector Drawings**



IO-Link

PIN 1: +24V

PIN 2: Input

PIN 3: GND

PIN 4: C/Q, IO-Link DC-Channel