### LioN-Link BusHead CANopen®-Slave

LioN-Link BusHead IP 67 bus coupler module for the connection between the higher level fieldbus and the fieldbus independent I/O modules, with M12 bus connection, rotary switches for addressing, M12 LioN-Link connection, M12 power supply connection.

#### Diagnostic Indication

<table>
<thead>
<tr>
<th>LED</th>
<th>Indication</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O Line 1, I/O Line 2</td>
<td>red, green, off</td>
<td>wrong configuration/module exchanged online, communication with PLC branch not in use (module not connected)</td>
</tr>
<tr>
<td>US1, US2</td>
<td>green</td>
<td>sensor/system power supply Line 1, Line 2</td>
</tr>
<tr>
<td>MS</td>
<td>green/red</td>
<td>device is ready for operating wrong configuration unrecoverable fault recoverable fault self test is running</td>
</tr>
<tr>
<td>NS</td>
<td>green/red</td>
<td>online, communication with PLC online, no communication with PLC timeout state of one or more I/O connections failed communication device, BUS-OFF status, duplicate MAC-ID</td>
</tr>
</tbody>
</table>

#### Pin Assignment

<table>
<thead>
<tr>
<th>Bus connection M12</th>
<th>Lion-Link connection M12</th>
<th>Power supply M12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Drain</td>
<td>1 = Drain</td>
<td>1 = +24 V</td>
</tr>
<tr>
<td>2 = 24 V</td>
<td>2 = 24 V Sensor/System</td>
<td>2 = +24 V</td>
</tr>
<tr>
<td>3 = GND (0 V)</td>
<td>3 = 0 V Sensor/System</td>
<td>3 = 0 V</td>
</tr>
<tr>
<td>4 = CAN_H</td>
<td>4 = Data +</td>
<td>4 = 0 V</td>
</tr>
<tr>
<td>5 = CAN_L</td>
<td>5 = Data -</td>
<td>5 = Earth</td>
</tr>
<tr>
<td>Housing / = Earth</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LioN-Link BusHead CANopen®-Slave**

0940 CSL 601

### Technical Data

#### Environmental
- **Degree of protection**: IP 67
- **Operating temperature range**: -10°C (+14°F) to +60°C (+140°F)

#### Mechanical
- **Weight**: 200 g
- **Housing material**: PBT

#### Bus system
- **CANopen®**
- **GSD/EDS file**: 0940CSL601.EDS
- **Transmission rate**: max. 1 MBaud
- **Address range**: 1–99 dec
- **Rotary address switches**: 1–99 dec
- **Default address**: 63 dec

#### Supply of the fieldbus interface
- **Us**: 24 V DC
- **Voltage range**: 11–30 V DC
- **Power consumption**: typ. 10 mA
- **Reverse polarity protection**: yes
- **Indication**: LED green

#### System/sensors power supply
- **Us1, Us2***: 24 V DC
- **Voltage range**: 19–30 V DC
- **Power consumption system**: typ. 60 mA / fieldbus: typ. 10 mA
- **Reverse polarity protection**: yes
- **Indication**: LED green
- **Output current per branch**: max. 3 A

#### Included in delivery/accessories
- Dust covers M12, attachable labels

* Both supply points on the BusHead must always be connected.

### Diagnostic
- Diagnosis for communication status, module breakdown and periphery faults in the Link system

### Purpose
- A maximum of 16 LioN-Link I/O modules can be operated on this BusHead

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**Part Number**

0940 CSL 601

The application of these products in harsh environments should always be checked before use.
Specifications subject to alteration.