

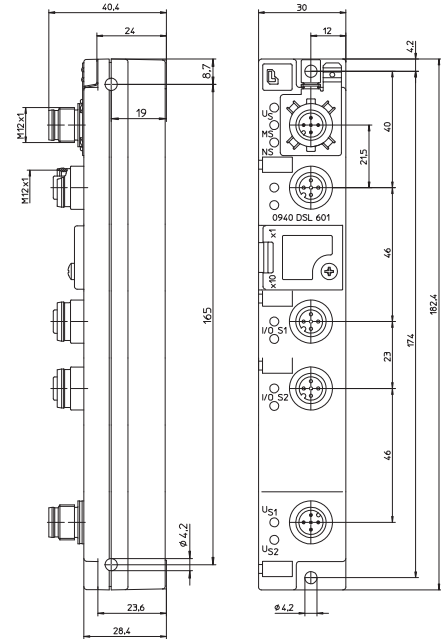


LioN-Link BusHead DeviceNet-Slave

0940 DSL 601



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



Bit Assignment




| Bit | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|--------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|
| Input | | | | | | | | |
| Byte 0 | 0 | 0 | 0 | 0 | US1 | US2 | KS1 | KS2 |
| Byte 1 | DIAG S ₈ | DIAG S ₇ | DIAG S ₆ | DIAG S ₅ | DIAG S ₄ | DIAG S ₃ | DIAG S ₂ | DIAG S ₁ |
| Byte 2 | DIAG S ₁₆ | DIAG S ₁₅ | DIAG S ₁₄ | DIAG S ₁₃ | DIAG S ₁₂ | DIAG S ₁₁ | DIAG S ₁₀ | DIAG S ₉ |
| Byte 3 | STATUS S ₈ | STATUS S ₇ | STATUS S ₆ | STATUS S ₅ | STATUS S ₄ | STATUS S ₃ | STATUS S ₂ | STATUS S ₁ |
| Byte 4 | STATUS S ₁₆ | STATUS S ₁₅ | STATUS S ₁₄ | STATUS S ₁₃ | STATUS S ₁₂ | STATUS S ₁₁ | STATUS S ₁₀ | STATUS S ₉ |

USx: Low voltage Line x
 KSx: Short circuit on Line x
 DIAG S_x: Diagnostic message I/O module x
 STATUS S_x: Configuration error I/O module x

Diagnostic Indication

| LED | Indication | Condition |
|------------------------|--|---|
| I/O Line 1, I/O Line 2 | red green off | wrong configuration/module exchanged online, communication with PLC branch not in use (module not connected) |
| U _s | green | power supply of fieldbus interface |
| U _{s1} | green | sensor/system power supply Line 1 |
| U _{s2} | green | sensor/system power supply Line 2 |
| MS | green green flashing red red flashing red/green flashing | device is ready for operating wrong configuration unrecoverable fault recoverable fault self test is running |
| NS | green green flashing red flashing red | 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 |

Pin Assignment

| Bus connection M12 | LioN-Link connection M12 | Power supply M12 |
|---|--|---|
|  1 = Drain 2 = 24 V 3 = GND (0 V) 4 = CAN_H 5 = CAN_L Housing / = Earth |  1 = Drain 2 = 24 V Sensor/System 3 = 0 V Sensor/System 4 = Data + 5 = Data - |  1 = +24 V 2 = +24 V 3 = 0 V 4 = 0 V 5 = Earth |

Technical Data

| | |
|-----------------------------|-------------|
| Degree of protection | IP 67 |
| Operating temperature range | -10°C/+60°C |
| Weight | 200 g |
| Housing material | PBT |

| | |
|-------------------------|-------------------|
| Bus system | DeviceNet |
| EDS file | 00_0940DSL601.eds |
| Transmission rate | max. 500 kBaud |
| Address range | 1–63 dec |
| Rotary address switches | 1–63 dec |
| Default address | 63 dec |

| | |
|---|----------------------|
| Supply of the fieldbus interface | U_s |
| Rated voltage | 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 | U_{s1}, U_{s2}* |
| Rated voltage | 24 V DC |
| Voltage range | 19–30 V DC |
| Power consumption | typ. 50 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

Note

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

Designation

0940 DSL 601



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