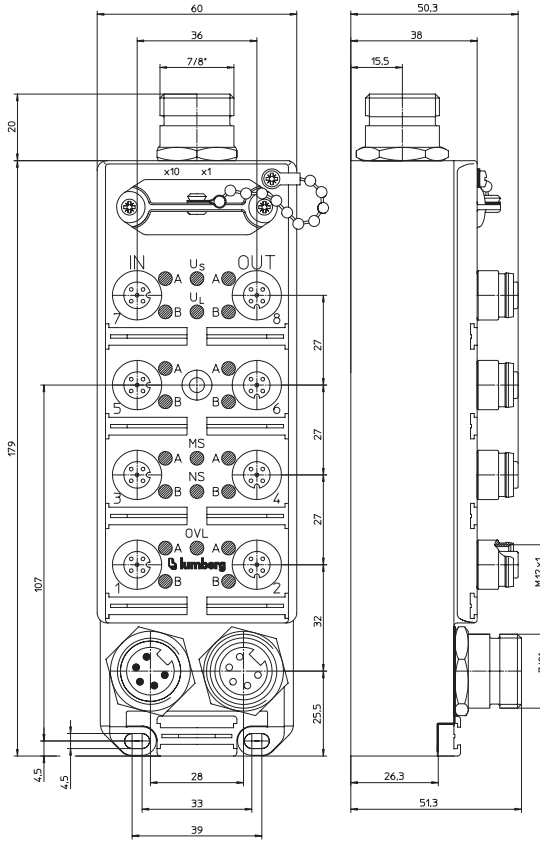


**0930 DSL 314**

**8 In / 8 Out**

DeviceNet-Teilnehmer mit 8 digitalen Eingängen für Standard-Sensoren und 8 digitalen Ausgängen (0,5 A) für Standard-Aktoren, kombinierte FIXCON-/M12-Buchse, Drehschalter zur Adresseinstellung, 7/8"-Busanschluss, 7/8"-Aktorversorgung

DeviceNet device with 8 digital inputs to connect standard sensors and 8 digital outputs (0.5 A) to connect standard actuators, combined FIXCON/M12 socket, rotary switches for addressing, 7/8" bus connection, 7/8" actuator supply



**Bitbelegung**  
Bit assignment

| Bit                                 | 7   | 6  | 5  | 4  | 3  | 2  | 1   | 0   |
|-------------------------------------|-----|----|----|----|----|----|-----|-----|
| <b>M12 Input</b>                    |     |    |    |    |    |    |     |     |
| <b>Byte 0</b>                       | 7B  | 5B | 3B | 1B | 7A | 5A | 3A  | 1A  |
| <b>Diagnose / Diagnostic: Input</b> |     |    |    |    |    |    |     |     |
| <b>Byte 1</b>                       | OVL | -  | -  | -  | -  | -  | ASC | UVA |
| <b>M12 Output</b>                   |     |    |    |    |    |    |     |     |
| <b>Byte 0</b>                       | 8B  | 6B | 4B | 2B | 8A | 6A | 4A  | 2A  |

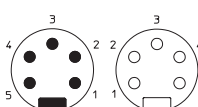
OVL: Overload status (Überlast-Status)  
ASC: Actuator short-circuit (Aktorkurzschluss)  
UVA: Undervoltage actuator (Aktorunterspannung)

**Diagnoseanzeige**  
Diagnostic indication

| LED              | Anzeige           | Indication         | Bedingung                                                    | Condition                                                     |
|------------------|-------------------|--------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| 1...8 A/B        | gelb              | yellow             | Kanalstatus                                                  | channel status                                                |
| 2,4,6,8 A/B      | rot               | red                | Aktorkurzschluss / Aktorüberlast                             | actuator short-circuit / actuator overload                    |
| Us               | grün              | green              | Aktorversorgung                                              | actuator power supply                                         |
| UL               | grün              | green              | Modulelektronikversorgung                                    | system power supply                                           |
| OVL              | rot               | red                | Sensorkurzschluss / Sensorüberlast                           | sensor short-circuit / sensor overload                        |
| MS               | grün              | green              | Modul betriebsbereit                                         | device is ready for operating                                 |
| (Module Status)  | grün blinkend     | green blinking     | fehlerhafte Konfiguration                                    | incorrect or incomplete configuration                         |
|                  | rot               | red                | Ein nicht korrigierbarer Fehler ist aufgetreten              | unrecoverable fault                                           |
|                  | rot blinkend      | red blinking       | Ein korrigierbarer Fehler ist aufgetreten                    | recoverable fault                                             |
|                  | rot/grün blinkend | red/green blinking | Selbsttest wird durchgeführt                                 | self test is running                                          |
| NS               | grün              | green              | online, Kommunikation mit Steuerung                          | online, communication with PLC                                |
| (Network Status) | grün blinkend     | green blinking     | online, KEINE Kommunikation mit Steuerung                    | online, no communication with PLC                             |
|                  | rot blinkend      | red blinking       | Time-Out mindestens einer I/O-Verbindung                     | time-out state of one or more I/O connections                 |
|                  | rot               | red                | Fehlerhafte Kommunikation, Bus-off Status, redundante Mac-Id | failed communication device, BUS-OFF Status, duplicate MAC-ID |
|                  | rot               | red                | Fehlerhafte Kommunikation, Bus-off Status, redundante Mac-Id | failed communication device, BUS-OFF Status, duplicate MAC-ID |

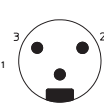
**Pinbelegung**  
Pin assignment

**Busanschluss 7/8"**  
Bus connection 7/8"



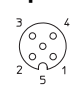
- 1 = Drain
- 2 = +24 V<sup>1</sup>
- 3 = GND (0 V)
- 4 = CAN\_H
- 5 = CAN\_L

**Aktorversorgung 7/8"**  
Actuator supply 7/8"



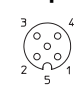
- 1 = Erde / earth
- 2 = +24 V
- 3 = GND (0 V)

**Eingang M12**  
Input M12



- 1 = +24 V
- 2 = IN B
- 3 = GND (0 V)
- 4 = IN A
- 5 = Erde / earth

**Ausgang M12**  
Output M12



- 1 = n.c.
- 2 = OUT B
- 3 = GND (0 V)
- 4 = OUT A
- 5 = Erde / earth

<sup>1</sup> = System/Sensorik system/sensors

### Technische Daten

|                     |             |
|---------------------|-------------|
| Schutzart           | IP 67       |
| Umgebungstemperatur | 0°C / +60°C |
| Gewicht             | 570 g       |
| Gehäusematerial     | PUR         |

### Bus-System

|                         |                |
|-------------------------|----------------|
| Übertragungsrate        | max. 500 kBaud |
| Autobaud                | ja             |
| Adressbereich           | 0–63 dez       |
| Drehadressierschalter   | 0–63 dez       |
| Voreingestellte Adresse | 63 dez         |

### Elektronik-Stromversorgung

|                  |            |
|------------------|------------|
| U <sub>L</sub>   |            |
| Nennspannung     | 24 V DC    |
| Spannungsbereich | 11–30 V DC |
| Stromaufnahme    | max. 80 mA |
| Verpolschutz     | ja         |
| Anzeige          | LED grün   |

### Sensorik-Stromversorgung

|                            |                               |
|----------------------------|-------------------------------|
| Spannungsbereich           | min. (U <sub>L</sub> - 1,5 V) |
| Gesamtstrom aller Sensoren | max. 800 mA                   |
| Kurzschlussfest            | ja                            |
| Anzeige                    | LED grün                      |

### Eingänge

|                             |                   |
|-----------------------------|-------------------|
| Typ 2 gem. IEC 61131-2      |                   |
| Nenneingangsspannung        | 24 V DC           |
| Signalzustand "1"           | 11–30 V           |
| Signalzustand "0"           | -3–5 V            |
| Eingangsstrom bei 24 V      | 10 mA             |
| Kanaltyp Schließer          | p-schaltend       |
| Anzahl der digitalen Kanäle | 8                 |
| Statusanzeige               | LED gelb je Kanal |

### Aktorik-Stromversorgung

|                   |                      |
|-------------------|----------------------|
| U <sub>s</sub>    |                      |
| Nennspannung      | 24 V DC              |
| Spannungsbereich  | 19–30 V DC           |
| Potentialtrennung | vorhanden            |
| Verpolschutz      | ja/Antiparalleldiode |
| Anzeige           | LED grün             |

### Ausgänge

|                             |                   |
|-----------------------------|-------------------|
| Typ 0,5 A gem. IEC 61131-2  |                   |
| Nennausgangsstrom           | 0,7 A pro Kanal   |
| Kurzschlussfest             | ja                |
| Max. Strombelastbarkeit     | 5,6 A             |
| Überlastfest                | ja                |
| Anzahl der digitalen Kanäle | 8                 |
| Kanaltyp Schließer          | p-schaltend       |
| Statusanzeige               | LED gelb je Kanal |
| Diagnoseanzeige             | LED rot je Kanal  |

### Lieferumfang / Zubehör

|                       |          |
|-----------------------|----------|
| M12-Schutzkappen      | 2 Stück  |
| Beschriftungsschilder | 10 Stück |

### Kommunikationsmodi

|                                            |
|--------------------------------------------|
| Polled I/O Message Connection              |
| Change of State/ Cyclic Message Connection |
| Explicit Message Connection                |

### Anschlussinweis

siehe Übersichtsseite

### Technical data

|                             |             |
|-----------------------------|-------------|
| Degree of protection        | IP 67       |
| Operating temperature range | 0°C / +60°C |
| Weight                      | 570 g       |
| Housing material            | PUR         |

### Bus system

|                         |                |
|-------------------------|----------------|
| DeviceNet               |                |
| Transmission rate       | max. 500 kBaud |
| Autobaud                | yes            |
| Addressing range        | 0–63 dec       |
| Rotary address switches | 0–63 dec       |
| Default address         | 63 dec         |

### Electronics power supply

|                             |            |
|-----------------------------|------------|
| U <sub>L</sub>              |            |
| Rated voltage               | 24 V DC    |
| Voltage range               | 11–30 V DC |
| Power consumption           | max. 80 mA |
| Reverse polarity protection | yes        |
| Indication                  | LED green  |

### Input power supply

|                              |                               |
|------------------------------|-------------------------------|
| U <sub>L</sub>               |                               |
| Voltage range                | min. (U <sub>L</sub> - 1.5 V) |
| Total current of all sensors | max. 800 mA                   |
| Short circuit-proof          | yes                           |
| Indication                   | LED green                     |

### Inputs

|                            |                        |
|----------------------------|------------------------|
| Typ 2 acc. to IEC 61131-2  |                        |
| Rated input voltage        | 24 V DC                |
| Signal state "1"           | 11–30 V                |
| Signal state "0"           | -3–5 V                 |
| Input current at 24 V      | 10 mA                  |
| Channel type N.O.          | p-switching            |
| Number of digital channels | 8                      |
| Channel status indicator   | LED yellow per channel |

### Output power supply

|                             |                        |
|-----------------------------|------------------------|
| U <sub>s</sub>              |                        |
| Rated voltage               | 24 V DC                |
| Voltage range               | 19–30 V DC             |
| Potential separation        | present                |
| Reverse polarity protection | yes/antiparallel diode |
| Indication                  | LED green              |

### Outputs

|                               |                        |
|-------------------------------|------------------------|
| Typ 0.5 A acc. to IEC 61131-2 |                        |
| Rated output current          | 0.7 A per channel      |
| Short circuit-proof           | yes                    |
| Max. output current           | 5.6 A                  |
| Overload-proof                | yes                    |
| Number of digital channels    | 8                      |
| Channel type N.O.             | p-switching            |
| Channel status indicator      | LED yellow per channel |
| Diagnostic indication         | LED red per channel    |

### Included in delivery / accessories

|                   |           |
|-------------------|-----------|
| Dust covers M12   | 2 pieces  |
| Attachable labels | 10 pieces |

### Communication modes

|                                            |
|--------------------------------------------|
| Polled I/O message connection              |
| Change of state/ cyclic message connection |
| Explicit message connection                |

### Connecting information

please see overview

### Bestellbezeichnung Designation

0930 DSL 314

