

INBLOX® Ethernet head module

Function

The **Ethernet head module** is the basis of the premium and comfort version of the INBLOX® series. In addition to its 24 V supply voltage connection it has got a LAN connection for the integrated web server. The head is the core of the smart INBLOX® series and can be extended to max. 20 segments and five segments resp. by Diag Rep modules and Diag+ Rep modules. An alarm module can be connected in place of a fifth extension module. Event alarms are then given by switching contacts.

The E-head is provided with an extended logic and alarms are shown on the web screen as known from the INSpektor®. For every extension module a device matrix with certain colours for relevant events can be displayed and the alarms stored as snapshots (up to 100 per extension module).

The head has different options to alert the user in case of network deterioration. It is possible to send an email, an SNMP trap or the INBLOX® can be integrated in a network monitoring software, such as PROmanage® NT.

Technical data

- Voltage supply: 24 VDC
- Power supply: 0,3 A
- Connection: screw terminal for 24 V voltage supply
LAN-Connection for Web interface
- Baud rate: 9,6 kbps to 12 Mbps
- Ethernet:
 - Baud rate: 100 Mbps / 10 Mbps
 - Connection: RJ45
 - Protocols: IPv4 via DHCP or manual
 - Time server: NTP-time synchronizing

General data

- Installation: 35 mm DIN top-hat rail
- Dimensions (H x W x D): 114,5 x 22,5 x 99 mm
- Protective system: IP20
- Operating temperature: 5 °C to 55 °C
- Storage temperature: -20 °C to 70 °C
- PROFIBUS types: DP, DP-V1, FMS, MPI
- Extension: DP Diag Rep, DP Diag+ Rep, alarm module
PA Diag+, DP-Master
- Automatic alarm: Email
SNMP-Trap
SNMP-request with PROmanage® NT

LED



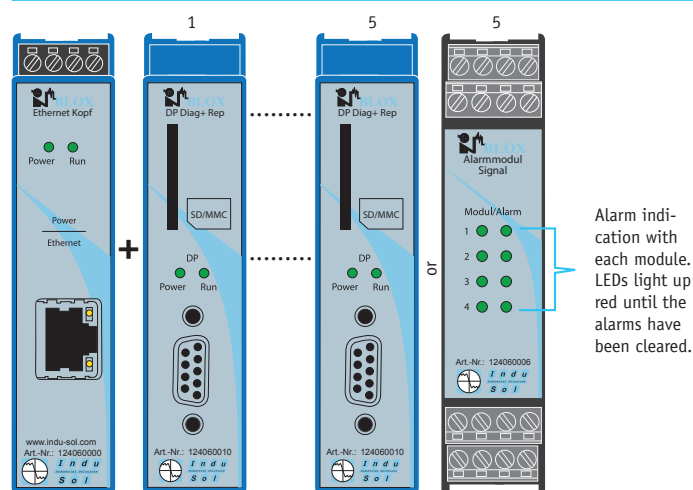
Power: lights up green, if 24 V is connected



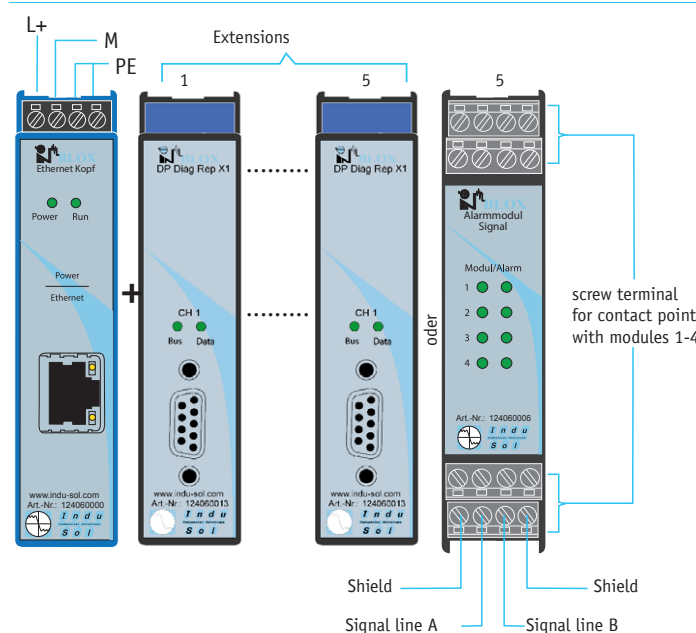
Run: blinks green at 1 Hz, rate if everything is o.k.



INBLOX® Ethernet head module



Sample configuration Comfort-Line



Sample configuration Premium-Line

Ordering details

Art. No.

INBLOX® Ethernet head module (E head)

124060000

INBLOX® Extension module Diag Rep X1

Function

The extension **DP Diag Rep X1 module** is simply connected to the INBLOX® head module and is coupled with the backplane bus directly. The data exchange and power supply for this module takes place via the backplane bus. Each of these extension modules has an integrated PROFIBUS analysis, which monitors and assesses the whole telegram communication logical and physical. The determined state of network quality can be always requested via the web interface of the INBLOX® Ethernet head module or directly via the status LEDs.

The extension DP Diag Rep X1 provides a PROFIBUS interface for connection of a PROFIBUS connector via SUB-D socket. The PROFIBUS network can be expanded by another segment or analysed by a further PROFIBUS master system per extension module, according to configuration of the INBLOX® Ethernet head module.

If a segment ends or begins immediately on a connection of the extension module, the bus termination resistor should be activated directly on the connector. The PG socket of the connector can be used as online measuring point for suitable diagnostic tools.

Technical data

- Voltage supply: 24 VDC with a backplane bus
- Power supply: 0,3 A with a backplane bus
- Connection: 9-pole sub-D PROFIBUS-connection
- Baud rate: 9,6 kbps to 12 Mbps

General data

- Installation: 35 mm DIN top-hat rail
- Dimensions (H x W x D): 114,5 x 22,5 x 99 mm
- Protective system: IP20
- Operating temperature: 5 °C to 55 °C
- Storage temperature: -20 °C to 70 °C
- PROFIBUS-types: DP, DP-V1, FMS, MPI

LED

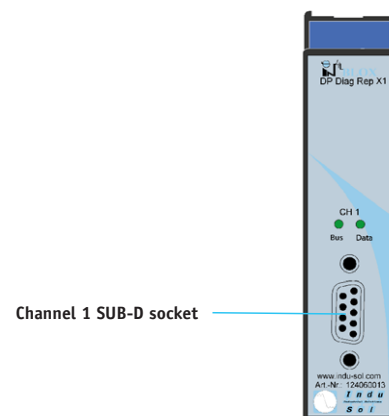
Bus: Bus health per channel

- **Green:** Everything is okay
- **Red:** Error telegram, telegram repetition, diagnostic messages, node failure

- Data:**
- **Green:** Bus activity on the channel
 - **Red:** Configuration problems in PB
 - **Off:** No bus activity

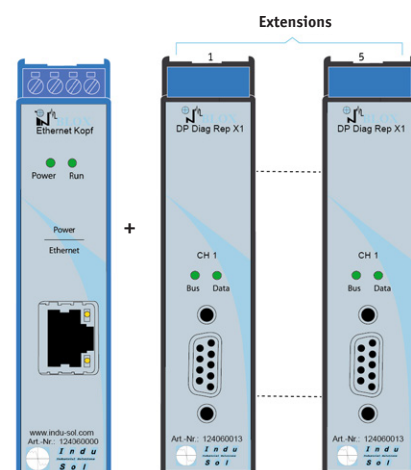


INBLOX® Extension module Diag Rep X1



Channel 1 SUB-D socket

Connection diagram



Sample configuration

Ordering details

Art. No.

INBLOX® Extension module DP Diag Rep X1

124060013