

ProLink EtherNet/IP module

Connection overview



1 General safety information

- Read this document carefully before setting up the Schaeffler ProLink device. Keep the document during the entire service life of the device.
- Adhere to the operating instructions and the technical data. Otherwise personal injury or damage to property may occur.
- The device must be suitable for the planned applications and for the environmental conditions without any restrictions.
- Only use the device for its intended purpose (see **Functions**).
- The manufacturer assumes no liability and warranty for any consequences caused by incorrect use of the device.
- The device must be installed and electrically connected, set up, operated, and maintained by qualified and authorised specialists.
- Protect the device units and cables against damage.

2 Functions

The ProLink EtherNet/IP module is used for data exchange with controllers using EtherNet/IP communication.



Electrostatic discharge

The ProLink device contains components that can be damaged or destroyed by electrostatic discharge. To safely avoid electrostatic discharge, you must operate the device on a grounded mounting rail. When handling the device observe the required safety precautions against electrostatic discharge (ESD) in accordance with EN 61340-5-1 and IEC 61340-5-1.



Contact voltages and ambient conditions

Mount the device in a control cabinet to protect it from dangerous contact voltages and ambient conditions. The installation of the control cabinet must be in accordance with local and national regulations.



Electrical connection

The device must be connected by a qualified electrician. The local and national regulations for the installation of electrical devices must be adhered to.

3 Install EtherNet/IP module

All ProLink condition monitoring systems can be extended with a EtherNet/IP module. The EtherNet/IP module can be ordered at Schaeffler. With the module, you also acquire the licence for operating it.

3.1 Mount EtherNet/IP module

- Ensure that the ProLink device is disconnected from power.
- On the ProLink CPU module, remove the cover of the slot for the fieldbus module.
- Insert the EtherNet/IP module into the slot until it clicks into place.
- Secure the module by hand-tightening the screws provided.
- Switch on the power supply of the ProLink device.
- Connect the Ethernet connection cable to one of the two ports and connect it to the controller.

Via the second connector of the EtherNet/IP module, you can connect the ProLink device to another EtherNet/IP device to integrate it into your EtherNet/IP network.

3.2 Configure EtherNet/IP module in SmartWeb

The EtherNet/IP module is only automatically recognised and displayed as a communication channel from firmware version 2.2. If it is not displayed, update the SmartWeb firmware via the function *Help > Update firmware*.


- Connect to the SmartWeb software (default IP address: 192.168.1.100).
- Open *Configuration > Communication channels > EtherNet/IP* activate the function.


3.3 Carry out network configuration of EtherNet/IP module


- Configure the EtherNet/IP connection in your controller.

Information on this is automatically read out from the controller by the ProLink device and displayed in the SmartWeb software.

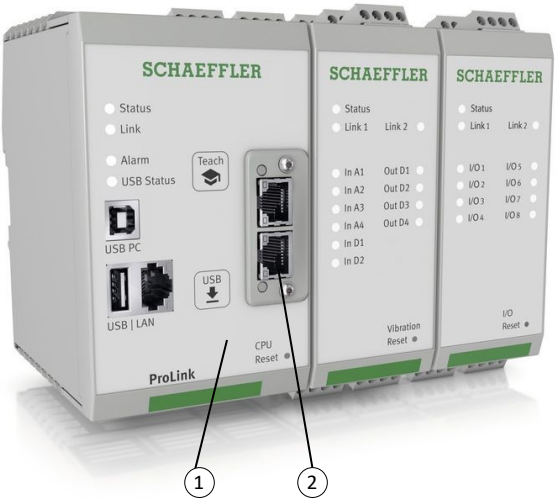
3.4. Carry out programming in TIA Portal

- In the SmartWeb software, click on *Configuration > Communication channels > EtherNet/IP*.
- Click on  to download the ZIP file containing EtherNet/IP information.
- The data of the ProLink device is stored as follows:
 - Info.txt: contains the module and register assignment.
 - EDS file: contains the device description.
- Proceed in the same way as for other third-party devices.

 If the measurement jobs are changed or extended, the info.txt file is updated. You must download the ZIP file again and adjust the programming of the controller. The EDS file remains unchanged.

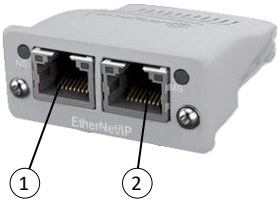
 The ProLink device can be restarted by the controller. In addition, the controller automatically detects when the ProLink device is switched off or restarted and displays this.

4 Fieldbus slot



- (1) ProLink CPU module
- (2) Slot for fieldbus module

5 Connections



- (1) Ethernet 1 (EtherNet/IP communication)
- (2) Ethernet 2 (EtherNet/IP communication)

6 Technical data

Designation	Value
Dimensions (LxWxH)	52 mm x 50 mm x 22 mm
Temperature	Operation: -40 °C to 70 °C
Protection class	IP20
RoHS Compliance	Yes
Galvanically isolated network interface	Yes
Certifications: - UL - CUL	Yes Yes
CE - Declaration of Pre-Conformity: - Emission EN 61000-6-4 - Immunity EN 61000-6-2	EN55016-2-3 Radiated emission EN55022 Conducted emission EN61000-4-2 Electrostatic discharge EN61000-4-3 Radiated immunity EN61000-4-4 Fast transients/burst EN61000-4-5 Surge immunity EN61000-4-6 Conducted immunity
Ordering information: - Order number - Order designation	302016538-0000-10 PROLINK.FIELDBUS-NETIP

Further information

This connection overview contains all the information required for installation, connection, and operation. For further information on the Schaeffler ProLink device or the Schaeffler SmartWeb software please refer to the respective manual of the same name. The current edition of the manuals can be downloaded here:
www.schaeffler.de/en/condition-monitoring/prolink

All details have been carefully compiled and checked. However, we can accept no liability for potential errors or omissions. We reserve the right to make technical modifications.

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