

ProLink input/output 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 I/O (input/output) module offers 8 individually switchable input or output signals. Measurement data is transferred to the CPU module via the internal ProLink communication interface, where the data for each channel can be managed individually.



Electrostatic discharge

The 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) according to EN 61340-5-1 and IEC 61340-5-1.



Contact voltages and environmental influences

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.

3 Installing the device

1. Ensure that the device is de-energised.
2. Mount the device vertically in a control cabinet on a 35-mm DIN rail.
3. Leave sufficient space between the device and the top or bottom of the control cabinet to ensure that there is good ventilation.

4 Connecting the power supply



Electrical connection

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

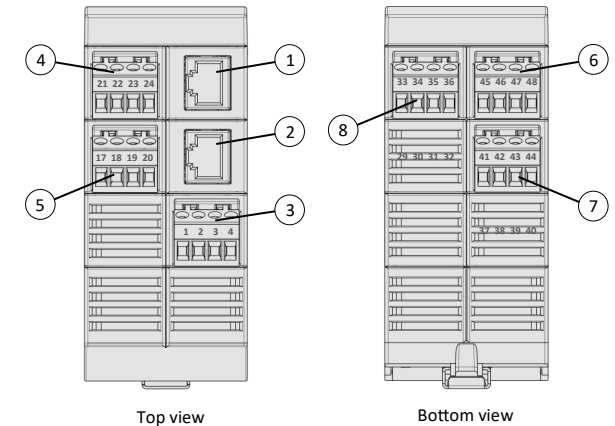
1. Connect the VDC power supply unit to the power supply connection.
2. Connect the power supply connection of the device to the connection of the next module.

Please note the maximum cable length of 3 metres. See also the illustrations in **Connections** and **Wiring**.

5 Connecting the modules

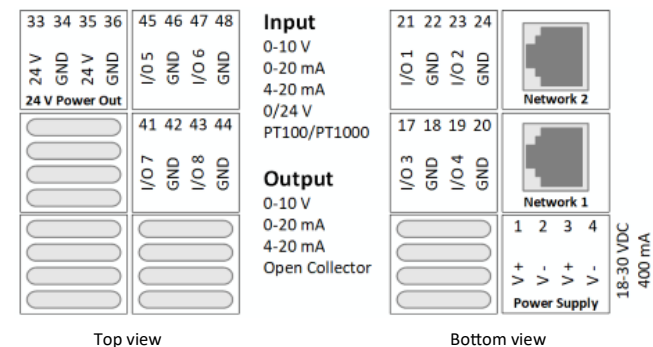
1. Use the network cable supplied to connect the RJ45 connection of the processor module to the RJ45 connection of the first vibration module.
 2. Connect all other modules likewise.
- See also the illustrations in **Connections** and **Wiring**.

6 Connections

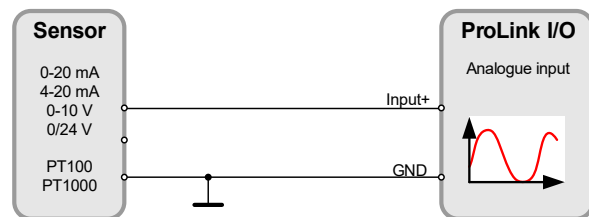


- (1) Ethernet 2 (internal ProLink communication)
- (2) Ethernet 1 (internal ProLink communication)
- (3) Power supply connection
- (4) Analogue inputs/outputs 1 to 2
- (5) Analogue inputs/outputs 3 to 4
- (6) Analogue inputs/outputs 5 to 6
- (7) Analogue inputs/outputs 7 to 8
- (8) Power supply output

7 Wiring



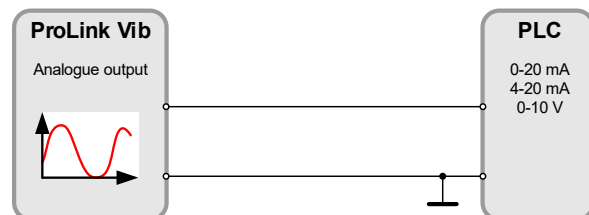
8 Connecting sensors at the analogue input



	Signal	GND
Analogue I/O 1	21	22
Analogue I/O 2	23	24
Analogue I/O 3	17	18
Analogue I/O 4	19	20
Analogue I/O 5	45	46
Analogue I/O 6	47	48
Analogue I/O 7	41	42
Analogue I/O 8	43	44

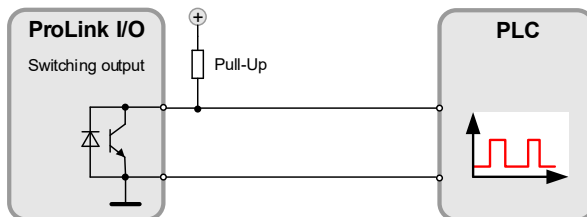
PT100 and PT1000 sensors are connected using two-wire technology.

9 Connecting the outputs



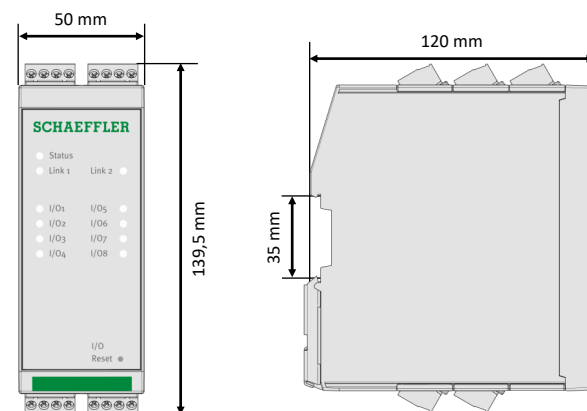
For details on the pin assignment, see "Connecting the sensors to the analogue input".

10 Connecting the switching output



Max. switching current: 500 mA per output
Voltage range: 5 - 30 VDC
Please use a shielded cable.

11 Dimensions



Further information

This connection overview contains all of 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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Version 1.0, Edition: February 2022
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