Key Features

— IPv6 TCP/UDP connectivity

— HTTP-Server hosting web-GUI with sensor values and configuration page
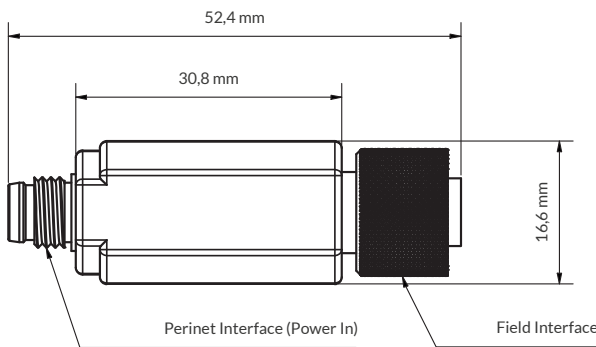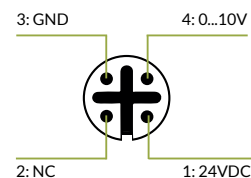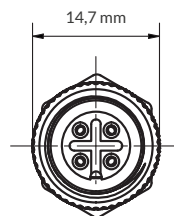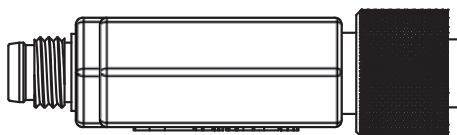
— RESTful API for access to sensor values and configuration

— Sensor value via MQTT

— Zeroconf networking

   — mDNS resolving unique periNODE-hostname

   — DNS Service Discovery for https service

— Security through end-to-end encryption

Dimensional Drawing & Pinout

52,4 mm

30,8 mm

16,6 mm

Perinet Interface (Power In)

Field Interface

12,6 mm

4: GND   2: SPE (TDN)

3: 24VDC   1: SPE (TDP)
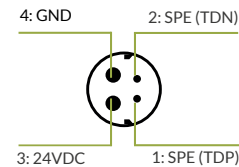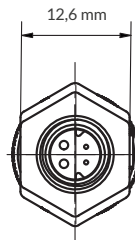
Perinet Interface (Power In)
M8 male (front view)

14,7 mm

3: GND   4: 0...10V

2: NC   1: 24VDC

Field Interface
M12 A-coded female (front view)

This periNODE smart adapter connects directly to sensors with 0-10V signal output and M12 A-coded 4-pin connectors.

It turns the analogue, passive sensor into a smart, active network participant that delivers digital data including physical unit via ethernet to any IT-system or data hub for further processing and analytics.

periNODE permits the configuration of data communication intervals to meet user-specific demand, thereby reducing network traffic and redundant data collection.

Area of application

periNODE 0-10V facilitates a wide variety of IoT and IIoT use cases.

Please note that periNODE is not designed for real-time or safety-critical applications.

Supported sensors

i.a. Micro Detectors ultrasonic sensor UK6A/H1-0EUL

Technical Specifications

Perinet Interface

Type	M8 male connector according to IEC 63171-6:2020 (style 6P-M8C without shielding)
Communication	100BASE-T1 Single Pair Ethernet (IEEE 802.3bw)
Power	24VDC input

Field Interface

Type	M12 A-coded 4-pin female connector
Signal	0-10V analogue input
Power	24VDC output

Housing

Material	Hotmelt
Protection Class	IP67
Temperature Range	-40°C...+70°C
Electromagnetic Compatibility (EMC)	Immunity for industrial environments (EN 61000-6-2:2005, EN 61000-6-2:2005/AC:2005)
	Emission standard for industrial environments (EN 61000-6-4:2007, EN 61000-6-4:2007/A1:2011)
Compliance	CE, RoHS, WEEE