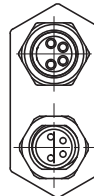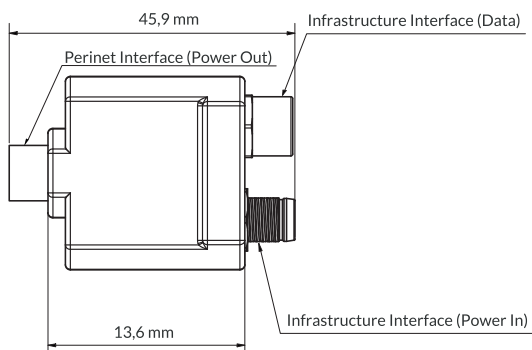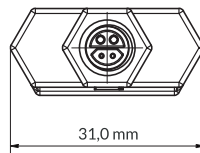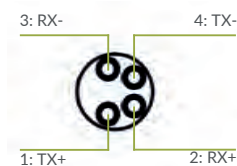## Key Features

— Conversion between 100BASE-TX and 100BASE-T1

— 24VDC power feed

— Bundles data and power for reduced cabling

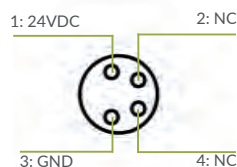— Power and data infrastructure connectivity with standard M8 connectors

Dimensional Drawing & Pinout
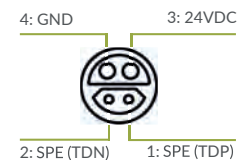
4: GND   3: 24VDC
Perinet Interface (Power Out)
M8 female (front view)
2: SPE (TDN)   1: SPE (TDP)

3: RX-   4: TX-
Infrastructure Interface (Data)
M8 A-coded female (front view)
1: TX+   2: RX+

1: 24VDC   2: NC
Infrastructure Interface (Power In)
M8 A-coded male (front view)
3: GND   4: NC

This periSTART media converter is the interface between your existing infrastructure and the Perinet Seamless IoT Connectivity system.
It converts between Fast Ethernet (100BASE-TX) and Single Pair Ethernet (100BASE-T1), thereby enabling seamless communication between the field level and your IT-system or data hub, and provides a 24VDC feed to attached sensors and actuators. periSTART bundles data and power supply and transmits both to the Perinet Seamless IoT Connectivity system via the 4-wire periLINE hybrid SPE cable.

Area of application

periSTART Standard connects to your infrastructure via standard M8 connectors.
It is the starting point to your field-level sensor and actuator network to facilitate a wide variety of IoT and IIoT use cases.
Please note that periSTART is not designed for real-time or safety-critical applications.

Technical Specifications

Perinet Interface (Power Out)

Type	M8 female connector according to IEC 63171-6:2020 (style 6P-M8C without shielding)
Communication	100BASE-T1 Single Pair Ethernet (IEEE 802.3bw)
Power	24VDC output, 2A max.

Infrastructure Interface (Data)

Type	M8 A-coded female connector
Communication	100BASE-TX Fast Ethernet (IEEE 802.3u)

Infrastructure Interface (Power In)

Type	M8 A-coded male connector
Input Voltage	24VDC (+/-10%)
Consumption	Average 0.5W (max. 2A troughput current)

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