sensorEDGE
Edge IO-Link master for remote sensor data transmission

→ Remote data transmission of up to 8 IO-Link sensors
→ Central device management and data visualization via an Internet portal
→ Data transfer rate to and from the portal down to a second
→ Real-time data streaming from the portal into custom applications via MQTT
→ Automatic sensor recognition with IODDfinder service support

Instant solution for remote transmission of IO-Link sensor data

sensorEDGE forms the basis of a quickly deployable remote monitoring solution for your machines. Equipped with two IO-Link master microcontrollers and an Internet uplink, the sensor box enables you to centrally monitor and analyze data from up to eight IO-Link sensors over the Internet using your own applications.

For sensorEDGE, only a power supply and an Internet connection are required. There is no need for elaborate operations with PLCs and fieldbus systems, as is necessary with conventional IO-Link masters.

Once IO-Link sensors are connected and automatically commissioned by the box using IODD files (from iodd finder.io-link.com), it transmits the data to an Internet portal. There, the data can be visualized and is made available as JSON-coded payloads in MQTT messages ready for your applications’ fetches.

Due to its autonomous and independent operation, sensorEDGE is ideal for retrofitting existing systems. Thanks to the IO-Link standard, the box is compatible with thousands of IO-Link sensors, and its IP67 rating allows a cabinet-free installation at locations in the field close to the data origin.
## Product Information

### Technical Data

#### IO-Link
- **Connectors**: 8 x M12 A-coded, socket; 5-pin
- **Master class**: Class A; Specification V1.1
- **IO-Link operation mode**: Sensors only
- **Power supply**: Min. 1A per connection
- **Commissioning**: Auto-detection/Web configurator
- **Short-circuit proof**: Yes

#### Environment
- **Temperature (Operation)**: -25 ... +60°C
- **Temperature (Storage)**: -40 ... +85°C
- **Protection class**: IP67

#### Geometry
- **Dimensions (LxWxH)**: 200 × 60 × 20 mm (without connectors)

#### Ethernet
- **Connector**: 1 x M12 D-coded, socket; 4-pin
- **Standard**: IEEE 802.3, 10BASE-T/100BASE-TX
- **Communication**: TCP/IP Port 443, AMQP Port 5671
- **Auto-Negotiation/-Crossover**: Yes

#### Power supply
- **Connector**: 1 x M12 L-coded, connector; 5-pin
- **Voltage**: 24 V DC (18 ... 31.2 V DC)
- **Rated current**: 16A

#### Mechanics
- **Weight**: 420 gr
- **Conformity**: CE & UKCA

#### Data transmission
- **To the cloud**: Data transmission: 1x per second minimum, device status: 1x per minute
- **From the cloud**: MQTT via web socket

#### Commercial
- **Device**: One-off costs incl. 12 months of initial usage time
- **Cloud usage**: Subscription

**Note**: All technical data may be changed without further notice.

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