sensorEDGE FIELD

Edge IO-Link master as open computing platform

→ Provisioning of data from up to 8 local IO-Link sensors

→ Powerful container platform for running custom apps

→ IO-Link web configurator and MQTT data adapter containers freely available

→ Central device/container management subscription at any time

Self-sufficient solution for capturing and processing IO-Link sensor data

sensorEDGE FIELD is an instant solution for IO-Link-supported monitoring of your machines.
Equipped with an Ethernet uplink port and eight IO-Link sensor ports, the IP67-compliant sensor box aggregates data from up to eight IO-Link sensors and offers it as a JSON-coded payload in MQTT messages.

The edge computer within the device, along with the implemented container technology, allows for operating an MQTT broker directly on the device and additionally deploying custom containers, for example, for data processing or data forwarding.

With the optionally subscribeable edge management function, both the sensor box and the software containers can be orchestrated centrally.

A provided and deployable basic container setup recognizes the connected IO-Link sensors automatically, requests the IODD device description files via the IODD-finder portal, and immediately starts the MQTT data provisioning. IO-Link sensor parameters can be modified online through a web-based IO-Link configurator tool.

sensorEDGE FIELD upgrades any existing or new system with own Industrial Internet of Things functionalities. Projects such as long-term monitoring, predictive maintenance, or anomaly detection can be easily realized. 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

Ethernet

Connector
1 x M12 D-coded, socket; 4-pin

Standard
IEEE 802.3, 10BASE-T/100BASE-TX

Communication
TCP/IP Port 443, SSH Port 22

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

Environment

Temperature (Operation)
-25 ... +60°C

Temperature (Storage)
-40 ... +85°C

Protection class
IP67

Geometry

Dimensions (LxWxH)
200 × 60 × 20 mm (without connectors)

Mechanics

Weight
420 gr

Conformity
CE & UKCA

Edge

Processor
1.6GHz quad core ARM Cortex-A53 64Bit

RAM
2GByte LPDDR4

Storage
16GByte eMMC

Operating system
Yocto Project Linux, netFIELD OS

Container engine
Moby Project, OCI-compatible open source runtime environment

Commercial

Device
One-off cost
incl. IO-Link configurator and MQTT data adapter containers

Central management
Optional, by separate subscription agreement

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

Artikelübersicht

NFS-M8-QM-D2-N16/NFLD	1915.231	Edge IO-Link master with app container environment

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