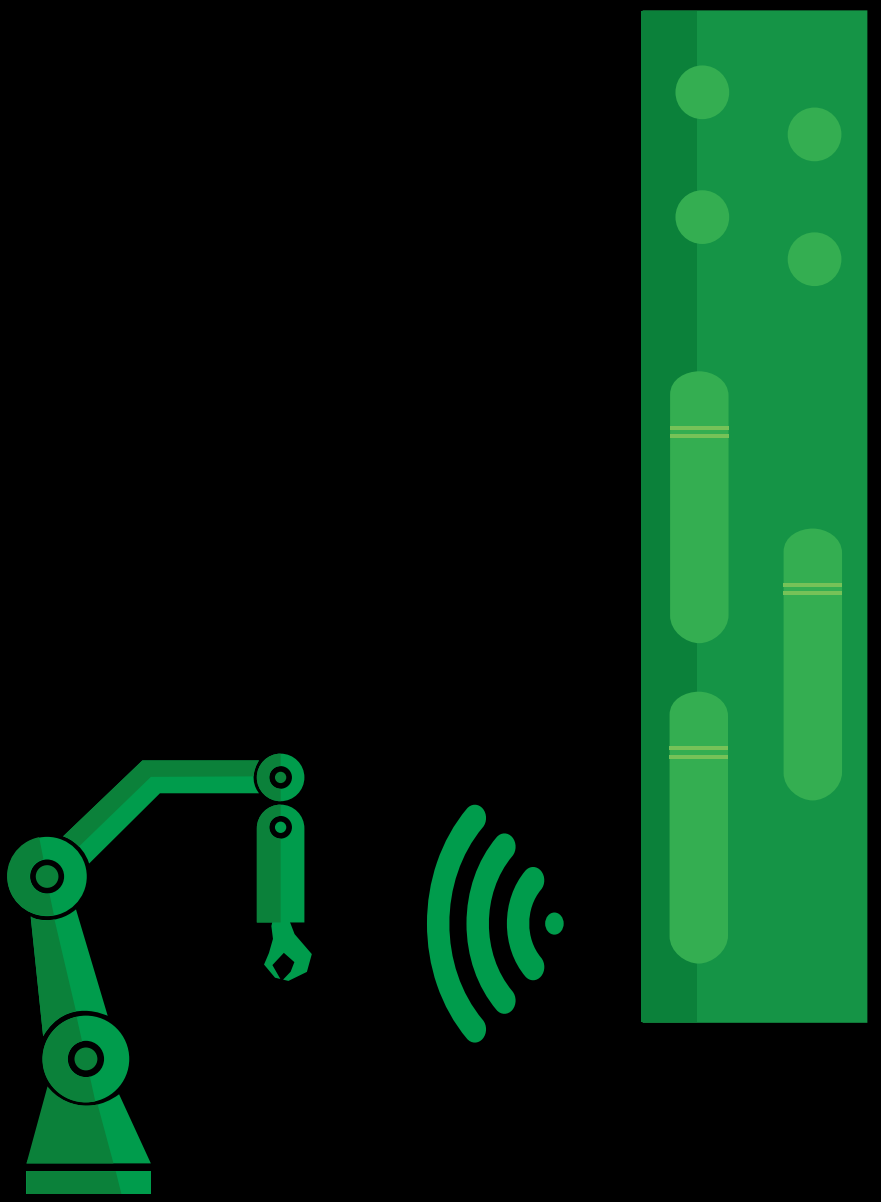
netFIELD DEVICE IO-LINK WIRELESS

IO-LINK WIRELESS MASTER WITH REAL-TIME ETHERNET AS READY-TO-USE IP67



THE REAL-TIME ETHERNET - IO-LINK WIRELESS MASTER GATEWAY

Hilschers **netFIELD Device IO-Link Wireless Master** extends the scope of IO-Link compatible sensors and actors to the wireless spectrum. This opens up new possibilities for plant operators and machine builders to equip their devices with industrial sensors and actuators and integrate them easily and reliably into industrial networks.

Based on the proven hardwired IO-Link standard, users of IO-Link Wireless can rely on familiar technologies and equip inaccessible sensors or actuators in production plants, robots with high degrees of freedom or legacy systems with IO-Link technology. Potential failure points such as broken cables are eliminated and downtimes can be reduced.

→ HIGHLY VERSATILE
Can be integrated into PROFINET, EtherNet/IP and EtherCAT networks

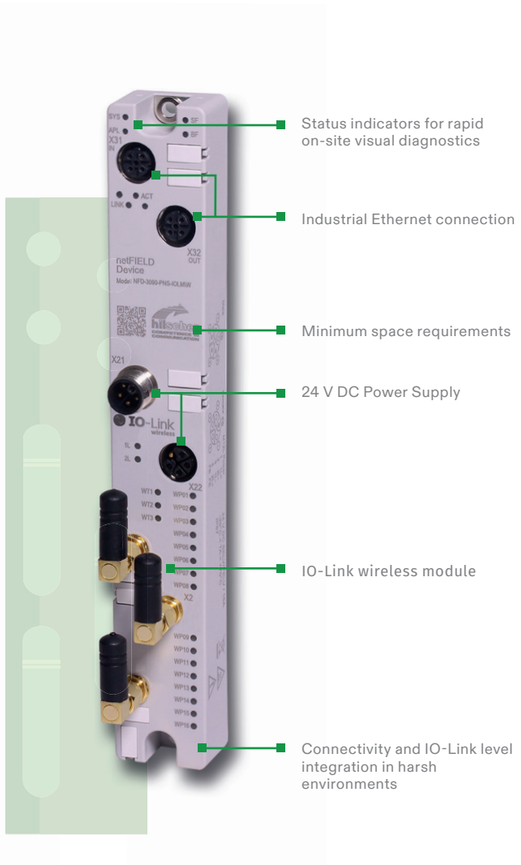
→ 16 WIRELESS IO-LINK DEVICES PER MASTER
Two parallel IO-Link Wireless transmission tracks enable simultaneous communication with up to 16 IO-Link Wireless Devices

→ RELIABLE REAL-TIME-COMMUNICATION
Reach 5ms as a minimum possible transmission cycle time per device and Wireless range of point-to-point communication up to 10 meter

→ SIMPLE PAIRING OF SENSORS & ACTUATORS
Scan mode and Pairing function enable connection of discoverable IO-Link devices

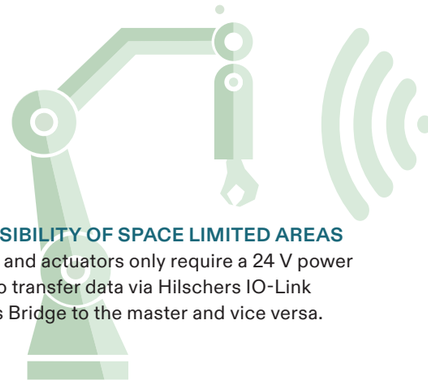
→ EASY SETUP
Configurable via description files within the engineering tool or the integrated web server

→ INTEGRATED DIAGNOSTICS
Via OPC UA Server & MQTT Client



→ QR Code Link: netFIELD Device Wireless
Service-Hotline: +49 (0) 6190 9907-90
www.hilscher.com

SIMPLE SOLUTIONS THROUGH FLEXIBLE CONNECTION



→ REDUCTION OF INSTALLATION EFFORTS
The wireless point-to-point communication techno logy enables the cyclic exchange of digital input and output process data between the Master and its associated devices.

→ ACCESSIBILITY OF SPACE LIMITED AREAS
Sensors and actuators only require a 24 V power supply to transfer data via Hilschers IO-Link Wireless Bridge to the master and vice versa.

→ INCREASE OF COMMUNICATION CHANNELS
Traditional hardwired IO-Link masters only offer eight ports in most cases, half the amount of Hilschers Wireless Master.

→ HIGHER RANGE OF MOTION
Utilizing wireless technology for data transmis sion minimizes movement restrictions for indust rial robots, cobots and other machines.

→ PROFESSIONAL SOFTWARE SUPPORT
Hilscher provides comprehensive software tooling such as an IO-Link configuration tool.

→ ALLEVIATE DOWNTIMES
Wireless data connections will not break due to physical stress as a result of moving robot arms for example.

CHOOSE YOUR BUSINESS CASE

1

DIRECT PURCHASE
Purchase your netFIELD Device IO-Link Wireless Master directly from Hilscher.

2

BRANDLABEL YOUR DEVICES
Enables you to incorporate the Wireless Master into your own product portfolio.
Additional services such as tailor-made laser printing on the housing are also available.

3

PCB BRANDING - PROFIT FROM OUR EXTENSIVE KNOWLEDGE IN INDUSTRIAL COMMUNICATION!
Design your own housing utilizing reliable and proven Hilscher technology in your solution.
Additional services such as PCB modification, config tool branding and project management are also available.

More reliability, availability and flexibility with **netFIELD Device IO-Link Wireless Master**

FACT SHEET - THE TECHNICAL DATA

Primary side	
Communication Interface	PROFINET, EtherCAT, EtherNet/IP
Connection technology: fieldbus	M12 D-kodiert; 4-polig
Interface typ	10BASE-T/100BASE-TX; potential free
Autonegotiation; Autocrossover	yes
PROFINET-IO-properties	PROFINET-IO-Device; 2-Port-Switch, LLDP, MRP, SNMP
Device function	
Device function	OPC UA server, MQTT client
Visualization	Web server
Configuration	Web server / PLC engineering tool
IO Wireless Signals	
Number of IO-Link ports	2 transmission tracks = 16 IO-Link wireless devices
Minimum transmission cycle time	5 ms
Transmission range	The possible range of a Wireless Master is limitied to 20 m. Derating to ≤ 10 m if more than one track is active
Transmission power	In total of 10 mW (max. ≤ 10 dBm) within 2.4 GHz ISM frequency

Supply module	
Connection technology	Supply M12 L-coded; 5-pole
Supply voltage	1L/2L: DC 24 V (-25 ... +30 %)
Current consumption	Max. 16 A per supply line; overload and short circuit proof
Reverse polarity protection	yes
Ambient temperature (working)	–25 °C ... +70 °C
Dimension (B x H x T)	30 × 42 × 200 mm
Weight	227 g
Authorization	CE / UKCA

Product Name	Part Number	Description
NFD-3090-PNS-IOLM\W	1912.102	IO-Link Wireless Master PROFINET IO-Device
NFD-3090-ECS-IOLM\W	1912.112	IO-Link Wireless Master EtherCAT Slave
NFD-3090-EIS-IOLM\W	1912.122	IO-Link Wireless Master EtherNet/IP Adapter