

Wireless makes flexible

INTELLIGENT, COMMUNICATIVE, WIRELESS: IO-LINK WIRELESS

The intelligent combination of industrial networks with the IO-Link communication standard is an essential building block for the factory of the future. Until now, sensors and actuators as well as binary and/or analog devices have been integrated via cables. IO-Link Wireless is a promising new standard for wireless communication in process and factory automation.

No cables – many advantages

Our wireless system consists of a master, hub and bridge. The wireless master does not receive its data by cable, as is usually the case, but receives the sensor data via a bridge or hub by radio. This brings significant advantages over a wired system –

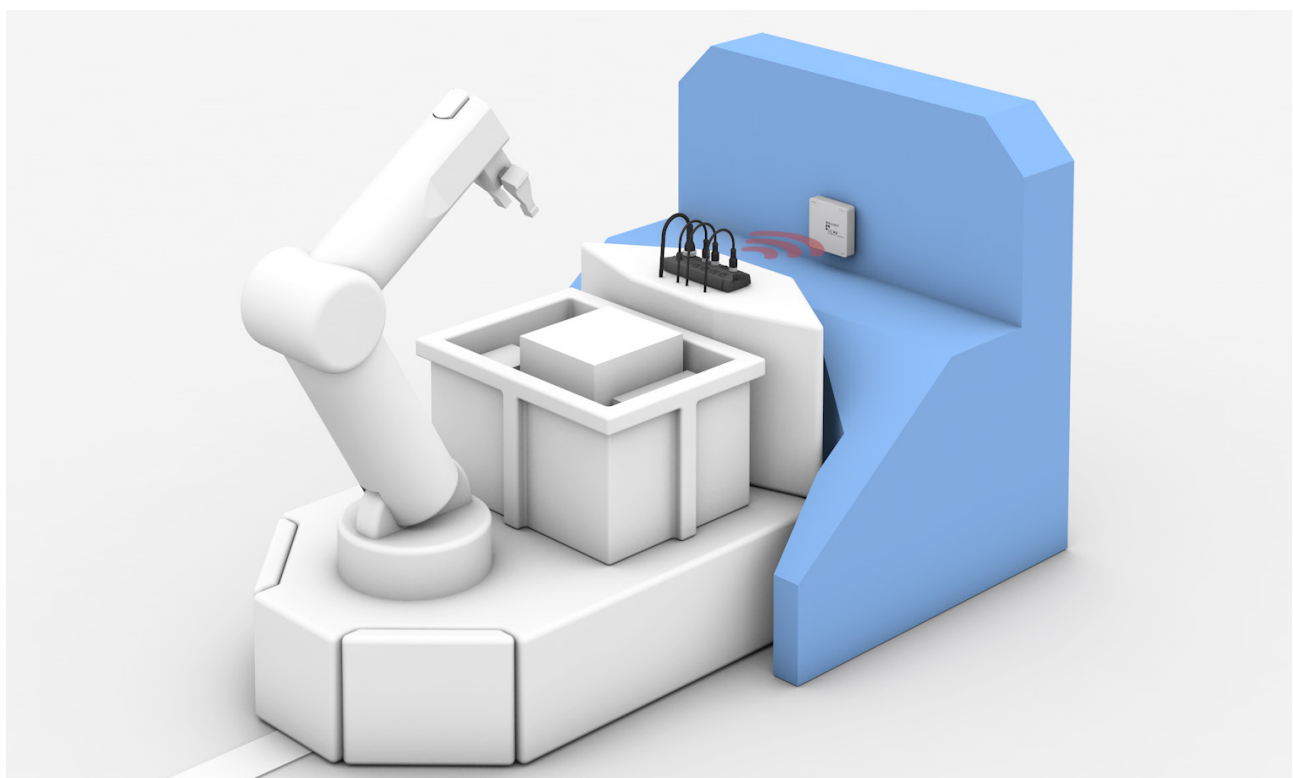
including easier planning and installation, more flexibility in design and mobility, and no wear and tear on connectors or cables. It also makes it easier to retrofit existing systems.

In a nutshell, smart communication through the wireless IO-Link variant allows even more flexible integration of sensors and actuators with the proven reliability and performance of the wired IO-Link standard.

For example, in highly dynamic transport systems, compatible sensors can now be placed directly on the carriage thanks to IO-Link wireless. This enables even more precise monitoring of the carriage's travel movements and positioning.

Features

- Easy configuration via integrated web server
- Frequency range 2.4...2.483 GHz usable worldwide license-free
- Fast and reliable (latency 5ms, error rate 10^{-9})
- Easily scalable and expandable by integrating additional devices (up to 40 devices)



Transport system: tracking the slide position precisely



MASTER

	BNI00FE	BNI00J5
IO-Link function	IO-Link master	IO-Link master
IO-Link version	1.1	1.1
Interface	Profinet	Ethernet/IP
Operating voltage	18...30.2 V DC	18...30.2 V DC
Ambient temperature	-5...+50 °C	-5...+50 °C
Approval/conformity	CE, UKCA, UL, FCC, IC, IO-Link	CE, UKCA, UL, FCC, IC, IO-Link
Radio license	Europa, USA, CA	Europa, USA, CA



HUB

	BNI00FF
Principle of operation	Active splitter
IO-Link version	1.1
Process data cycle	5 ms
Ambient temperature	-5...+50 °C
Ports	8
Connection	M12
Approval/conformity	CE, UKCA, UL (in preparation), FCC, IC, IO-Link



BRIDGE

	BNI00H3
IO-Link version	1.1
Operating voltage	18...32 V DC
IP rating	IP67
Ambient temperature	-5...+50 °C
Connection	M12
Approval/conformity	CE, UKCA, UL, FCC, IC, IO-Link