

Модули подключения IO-Link

Технические характеристики

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IO-Link connection units

Getting ready for tomorrow today. Industrial networks with integrated IO-Link are standard in the networked factory. IO-Link sensors can transfer more than just process data to the machine control. They can also communicate with a wide range of receivers and, in addition to process data, can also transmit device information. Ethernet-based IO modules with IO-Link technology enable a more flexible, more versatile, transparent, high-performance infrastructure. With the MD 7 IO-Link masters, comprehensive diagnostics and adaptation of the parameter settings is possible from the control level all the way to the field level, even to the cloud.



IO-Link master and hubs: the MD7 system

I/O modules with IO-Link interface for a wide range of automation tasks

At the core of adaptable, transparent, and powerful automation lies the MD7 system from Leuze. IO-Link sensors transmit not only process data, but also device information, diagnostic data, and event messages. Leuze's Ethernet-based I/O modules with IO-Link technology combine the data, and connect the individual machine modules to the control and superior systems. This makes the machinery modular.

The IO-Link masters, which work with a variety of protocols, enable sensors and actuators to be flexibly integrated into existing infrastructures with different fieldbus and control systems. Process and device information is reliably transmitted from the individual IO-Link devices to superior management systems or cloud applications. Leuze's IO-Link modules and any other connected sensors and actuators are centrally commissioned, parameterized, and diagnosed via a web browser. IO-Link hubs can be used to expand the system economically and as needed.

Advantages for you

- **Flexible integration in control and cloud**

Flexible planning and reduced stocking costs: With PROFINET, Ethernet/IP*, and Modbus TCP, the IO-Link masters from Leuze support various protocols in a single device. Models with OPC UA are also available.

- **Reduced installation effort**

Low wiring effort and short installation times: The L-coded M12 Power connector delivers more performance in a single cable. This enables longer module chains and fewer cables and power supply units within the machine.

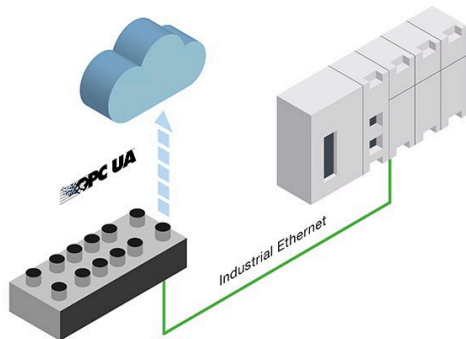
- **High transparency**

Easy access to diagnosis and configuration: The IO-Link master of the MD7 system comes with an integrated web server that enables remote parameterization and central monitoring of the connected sensors and actuators.

- **Integrated system**

Save costs with predictive maintenance and straightforward retrofitting: IO-Link enables the transmission of the diagnostic data needed to plan maintenance activities. If a sensor is replaced, the master automatically uploads the parameterization to the new device.

Highlights



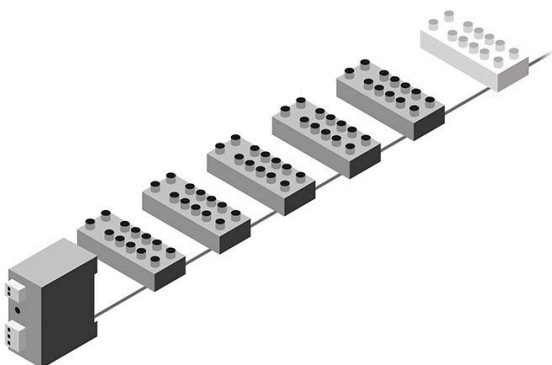
Multi-protocol for standardized system design

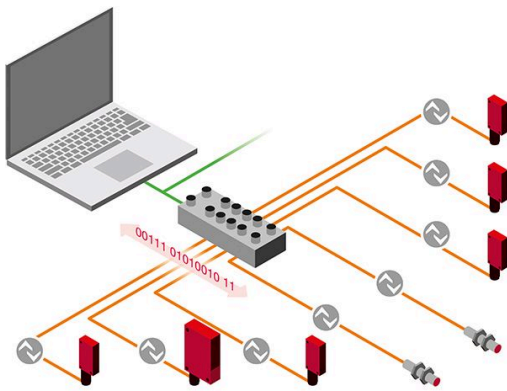
IO-Link masters from Leuze are capable of working with different protocols. They support the Ethernet-based fieldbus protocols PROFINET and Ethernet/IP* for complex, real-time industrial communication, as well as Modbus TCP to connect to simpler PLCs, operating terminals, or SCADA systems. This means that the modules can be used with most popular controls. The level of standardization of the machine is increased, and the lower complexity results in reduced stocking costs and less complex maintenance. Leuze is also offering a device model based on the OPC UA standard, which can be integrated directly into cloud-based systems. With its web-based configuration, it can also be operated as a standalone solution.

Easy wiring thanks to standard M12 Power connectors

The IO-Link modules from Leuze are powered via standard M12 Power connectors. Thanks to multi-protocol capability, a single device type can thus be used for Ethernet and PROFINET connection. This reduces the number of models needed and thus simplifies stocking.

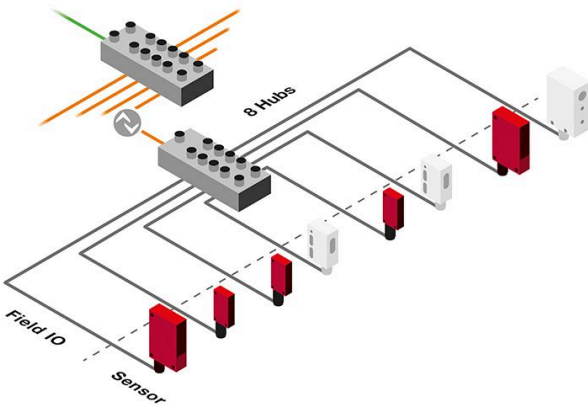
With a maximum admissible current of up to 16 A, the L-coded M12 connectors also offer around 80% more power than 7/8" connectors. This means that many more modules can be daisy-chained without requiring any additional power. Fewer power supplies are needed and parallel wiring is reduced, so that even tight installation spaces can be exploited to the fullest extent.





LED display)

Backup of device settings



Convenient configuration and diagnostic options

The MD7 system offers high data and process transparency. The masters offer a multitude of ways to retrieve diagnostic data and status information – either right on the device or via a web server. The integrated web server with IODD interpreter also allows for the IO-Link devices connected to be fully configured. And with the Leuze Service Tool (available soon), we are offering another powerful software with the following functions (among others):

Device management: Find Leuze devices automatically in the network, display of device type and firmware version

Efficient network configuration, e.g., IP address assignment

Fast identification of individual devices in the network using the WINK function (flashing

System expertise from IO-Link experts

A coordinated system of IO-Link masters and sensors from Leuze increases the level of standardization of your machine. IO-Link hubs allow for a large number of digital sensors to be cost-effectively integrated into your system. As one of the founding members of the IO-Link consortium, Leuze has been actively involved in the further development of the open interface standard since 2002. This ensures that I/O modules with IO-Link technology from Leuze also communicate smoothly with components from other manufacturers, thus giving you a future-proof investment.

Technical properties



MD 798i



MD 748i



MD 798i IO-Link



MD 742 IO hub M12



MD 742 IO hub M8

Interfaces	Multiprotocol: Ethernet IP*/PROFINET, Modbus	Ethernet IP*/PROFINET, Modbus, OPC UA	Multiprotocol: Ethernet IP*/PROFINET, Modbus, IO-Link 1.1	IO-Link 1.1	IO-Link 1.1
Features	16 digital PNP inputs	8x IO-Link pin 4 in IOL mode, 4x DIO + 8 SIO mode, 4x DO	8x IO-Link pin 4 in IOL mode, 4x DIO + 8 SIO mode, 4x DO	16 digital PNP inputs COM 2 / 38.4 kBit/s	8 digital PNP inputs COM 2 / 38.4 kBit/s
Dimensions	60.4 x 230.4 x 39 mm	65 x 210.4 x 30 mm	60.4 x 230.4 x 39 mm	54 x 150 x 27.4 mm	32 x 144.3 x 32 mm
Temperature range	-40 ... 70° C	-25 ... 60° C	-40 ... 70° C	-40 ... 70° C	-40 ... 70° C
Degrees of protection	IP 65 / 67 / 69K	IP 65 /67	IP 65 / 67 / 69K	IP 65 / 67 / 69K	IP 65 / 67 / 69K



MD 798i-11-82/L5-2222

- IO-Link master

Series: MD 700i

Interface: IO-Link, Automatic protocol detection, EtherNet IP...

Suitable for: IO-Link sensors



MD 748iC-11-82/L5-2222 F001

- IO-Link master

Series: MD 700i

Interface: OPC-UA, IO-Link, PROFINET

Suitable for: IO-Link sensors



MD 748i-11-82/L5-2222

- IO-Link master

Series: MD 700i

Interface: IO-Link, PROFINET

Suitable for: IO-Link sensors



MD 742-11-88IO3-12

- IO-Link master

Series: MD 700i

Interface: IO-Link



MD 742-11-82IO5-12

- IO-Link master

Series: MD 700i

Interface: IO-Link



SET MD12-US2-IL1.1 + Zub.

- Diagnostics set

Series: MD12

Interface: USB

Suitable for: IO-Link sensors

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