



IO-Link



IO-Link master for intelligent sensors in hygienic areas



IO-Link masters
StandardLine Food



4 or 8 IO-Link ports with full V1.1 functionality

IP 69K field module for the food industry

Master and devices configurable via the LR DEVICE software

Industry 4.0 ready via LR AGENT EMBEDDED

Voltage supply via standard M12 sensor cable, A-coded



Robust field bus modules for demanding applications

The decentralised IO-Link masters are used as gateways between intelligent IO-Link sensors and the fieldbus. Thanks to their special housing materials and high ingress resistance (IP 69K), they can be used directly in wet areas in the food industry. The materials and production methods are identical to the ifm jumper cables of the tried-and-tested EVF product series.

The ecolink technology guarantees reliable, permanently ingress-resistant M12 connections of the connection cables.

High-quality materials especially suited to the application and intensive monitoring during and after production guarantee maximum quality standards.



Advantages and customer benefits

- **Configuration of sensors with LR DEVICE**

The intuitive software finds all IO-Link masters in the network and creates an overview of the whole plant. Besides, all sensors connected are indicated with the respective parameters. This means that parameter setting of all sensors in the system is possible from one central point.

- **Use as masters for the food industry**

These masters can now also be used in hygienic applications due to the materials used and their innovative housing design.

- **Easy sensor connection**

The sensors and actuators are connected via standard M12 connection cables without screening. Depending on the device type, up to 4 or 8 IO-Link sensors can be connected and supplied with up to 3.6 A. The cable can be up to 20 m long.




- **Reliable digital data**

The sensor data is transferred digitally. Unlike analogue signals, contact resistance and EMC interference cannot corrupt the signals.



- **Direct connection to the IT**

The integrated LR AGENT EMBEDDED is capable of transmitting the process values directly to ERP systems, without detour via the PLC. This second communication path is available in parallel to the fieldbus via the bus wiring.

Connection technology

Type	Description	Order no.
Ethernet cable (fieldbus)		
	1 m	EVF530
	2 m	EVF531
	5 m	EVF532
	10 m	EVF533
M12 socket 1 mm² (power)		
	2 m	EVF480
	5 m	EVF481
	10 m	EVF482
	20 m	EVF483
M12 connection cable 0.34 mm² (sensor)		
	1 m	EVF042
	2 m	EVF043
	5 m	EVF044
	10 m	EVF045




Products

Type	Description	Order no.
IO-Link master StandardLine Food		
	Profinet 4-port	AL1101
	EtherNet/IP 4-port	AL1121
	Profinet 8-port	AL1103
	EtherNet/IP 8-port	AL1123
IO-Link-Module Food		
	Output module 6 x 2DO	AL2230

Technical data

IO-Link master StandardLine Food	Order no.	
	AL1101 AL1121	AL1103 AL1123
Operating voltage	[V DC]	20...30
Total current consumption	[A]	≤ 3.9
IO-Link version		1.1
Number of IO-Link ports	4 A ports	8 A ports
Number of binary inputs (IO-Link in SIO mode)	4 + 4	8 + 8
Number of binary inputs (IO-Link in SIO mode)	4	8
Parameter memory		•
Current for all ports (device supply)	[A]	≤ 3.6
Protection		IP 65, IP 67, IP 69K
Ambient temperature	[°C]	-25...60
Housing materials		polyamide; socket: stainless steel

Accessories

Type	Description	Order no.
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011
	Y splitter, for connection of two sensors to a port, M12 connector / 2x M12 socket	EBF006
	Protective caps M12 4 pcs., stainl. st.	E12542