



IO-Link



IO-Link master: Connection of sensors to the PLC and to the IT world



IO-Link master
DataLine Coolant / Food



Industry 4.0 ready via new IoT core

Separation between automation and IT network

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

PROFINET, EtherNet/IP, EtherCat, Modbus TCP or TCP/IP JSON

Master and device configurable via the LR DEVICE software



IO-Link master for the automation and IT world

The decentralised IO-Link master modules serve as a gateway between intelligent IO-Link sensors and the field bus. Besides, important information of the intelligent sensors can simultaneously be sent into the IT world. With a separate IoT Ethernet socket the IT network can be set up completely separated from the automation network. Sensor information is transferred into the IT world via the established TCP/IP JSON interface.

Robust field bus modules for demanding applications

Thanks to their special housing materials and high ingress resistance (IP 67 or IP 69K), they can be used in coolant applications or directly in wet areas in the food industry. The ecolink technology guarantees reliable, permanently ingress-resistant M12 connections of the connection cables.



Advantages and customer benefits

• Separation between automation and IT network

Machine uptime is of highest priority. The automation network must by no means be interrupted by external factors. Therefore the unit features a separate IoT Ethernet socket separating IT and automation network. This means that important sensor information can be safely sent to the IT and ERP system.

• Sensor configuration with LR DEVICE

The intuitive software finds all IO-Link masters in the network and creates an overview of the whole plant. In addition, all connected sensors are displayed with the respective parameters. This makes it possible to set the parameters of all sensors in the system from one central point.

• 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. With the EVC693 or EVF693 accessories, additional auxiliary power for the connection of IO-Link actuators can be supplied. The cable can be up to 20 m long.

Connection technology

Type	Description	Order no.	
		Coolant	Food
Ethernet cable (fieldbus)			
	0.5 m	E12490	EVF530
	2 m	E12090	EVF531
	5 m	E12491	EVF532
	10 m	E12492	EVF533
M12 socket 1 mm² (power)			
	2 m	EVC706	EVF480
	5 m	EVC707	EVF481
	10 m	EVC708	EVF482
	20 m	EVC709	EVF483
M12 jumper cable 0.34 mm² (sensor)			
	1 m	EVC042	EVF042
	2 m	EVC043	EVF043
	5 m	EVC044	EVF044
	10 m	EVC493	EVF045
Y splitter (adapter A port / B port)			
	1 m	EVC693	EVF693
	2 m	EVC694	EVF694
	5 m	EVC695	EVF695
	10 m	EVC696	EVF696

The products

Type	Description	Order no.	
		Coolant	Food
IO-Link master DataLine			
	Profinet + IoT 4-port	AL1300	AL1301
	EtherNet/IP + IoT 4-port	AL1320	AL1321
	EtherCat + IoT 4-port	AL1330	AL1331
	Modbus TCP + IoT 4-port	AL1340	AL1341
	IoT only 8-port	AL1350	AL1351
	Profinet + IoT 8-port	AL1302	AL1303
	EtherNet/IP + IoT 8-port	AL1322	AL1323
	EtherCat + IoT 8-port	AL1332	AL1333
	Modbus TCP + IoT 8-port	AL1342	AL1343
	IoT only 8-port	AL1352	AL1353

Technical data

IO-Link master DataLine Coolant / Food	Order no.			
	AL1300	AL1302	AL1301	AL1303
AL1320	AL1322	AL1321	AL1323	
AL1330	AL1332	AL1331	AL1333	
AL1340	AL1342	AL1341	AL1343	
AL1350	AL1352	AL1351	AL1353	

Operating voltage	20...30 V DC			
Total current consumption	≤ 3.9 A			
IO-Link version	1.1			
Number of IO-Link ports	4 A ports	8 A ports	4 A ports	8 A ports
Number of binary inputs	4 + 4	8 + 8	4 + 4	8 + 8
Number of binary outputs	4	8	4	8
Parameter memory	•			
Current for all A ports	≤ 3.6 A (device supply)			
Protection	IP 65, IP 67		IP 65, IP 67, IP 69K	
Ambient temperature	-25...60 °C			
Housing materials / socket	Polyamide / brass nickel-plated		Polyamide / 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
	Coolant, protective caps M12 (10 pcs)	E73004
	Food, protective caps M12 4 pcs, high-grade stainless steel	E12542