



IO-Link



IO-Link master with extra power



IO-Link masters
PowerLine Coolant



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

Feed-through of the power supply possible

Master and devices configurable via the LR DEVICE software

Industry 4.0 ready via LR AGENT EMBEDDED

Voltage supply via power cable, M12, T-coded



Robust field bus modules with safe connection

The decentralised IO-Link masters are used as gateways between intelligent IO-Link sensors and the fieldbus. They are the perfect choice, even in the most difficult environments: The materials and production methods are identical to the ifm jumper cables of the tried-and-tested EVC product series. The ecolink technology guarantees reliable, permanently ingress-resistant M12 connections of the connection cables.

Extra power

The IO-Link masters are equipped with two T-coded M12 connections for voltage supply. With this power cabling, the current path can simply be daisy-chained.

The B ports of the 8-port IO-Link master allow direct connection of IO-Link actuators, such as valve islands.



Advantages and customer benefits

• Sensor configuration 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.

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





• 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.




• 12 amperes on an M12 connector

The master supply and the auxiliary power for the actuators are supplied via T-coded M12 connectors. The energy can be looped through the master (daisy chain).

Connection technology

Type	Description	Order no.
Ethernet cable (fieldbus)		
	0.5 m	E12490
	2 m	E12090
	5 m	E12491
	10 m	E12492
M12 socket 1.5 mm² (power)		
	0.5 m	E12494
	2 m	E12430
	5 m	E12495
	10 m	E12496
M12 connection cable 0.34 mm² (sensor)		
	1 m	EVC042
	2 m	EVC043
	5 m	EVC044
	10 m	EVC493
Y splitter		
	Y splitter, for connection of two sensors to a port, M12 connector / 2x M12 socket	EBC113



Products

Type	Description	Order no.
IO-Link master PowerLine coolant		
	Profinet 4-port	AL1200
	Profinet 8-port	AL1202
	EtherNet/IP 4-port	AL1220
	EtherNet/IP 8-port	AL1222
IO-Link module Coolant		
	Input module 4 x 2DI	AL2400
	Input module 8 x 2DI	AL2401
	Output module 6 x 2DO	AL2330

Technical data

IO-Link master PowerLine Coolant	Order no.	
	AL1200 AL1220	AL1202 AL1222
Operating voltage [V DC]	20...30	
Total current consumption US / UA [A]	≤ 3.9 / ≤ 3.6	
IO-Link version	1.1	
Number of IO-Link ports	4 A ports	4 A ports and 4 B ports
Number of binary inputs (IO-Link in SIO mode)	4 + 4	4 + 8
Number of binary inputs (IO-Link in SIO mode)	4	8
Parameter memory	•	
Current for all A ports (device supply) [A]	≤ 3.6	
Current for all B ports (actuator supply) [A]	≤ 3.6	
Protection	IP 65, IP 67	
Ambient temperature [°C]	-25...60	
Housing materials	polyamide; socket: nickel-plated brass	

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
	Protective caps M12 (10 pcs)	E73004