



IO-Link

# Powerful IO-Link masters for industrial applications



IO-Link master  
PerformanceLine Coolant



**4-port and 8-port IO-Link masters for field use**

**Daisy-chain power with standardised L-coded M12 connection technology, max. 2 x 16 A**

**Connection of actuators up to 2 A**

- ↻ **Current measurement and configurable current limitation for each port**
- ↻ **Master and device configurable via moneo|configure software**



## Robust field bus modules with fail-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.

## L-coded cables for high currents

Used to supply higher power levels to the new ifm Performance Line IO-Link masters in demanding applications. The L-coded M12 power connector is becoming more and more established on the market and the perfect solution to supply these modules with power. This allows high currents to be transmitted with low voltage drop. ifm offers connection cables and jumpers that are perfectly adapted to this.



## Advantages and customer benefits

### 16 amps on an M12 connector

The IO-Link master is supplied via the standardised L-coded M12 connector. This connection technology with 5 x 2.5 mm<sup>2</sup> can be used to supply sensors and actuators with up to 16 A. The energy can be looped through the master (daisy chain).

### Connection of 2 A actuators with high current consumption

Optionally, a digital output mode can be set for pin 2 of a B port. Thus, large solenoid valves and actuators can be switched with up to 2 A.

### Energy monitoring

The current for each port can be limited, which can be set in the PLC. Moreover, voltage and current values of each port can be measured. This makes it easy to determine the energy required by an installation and to transfer it to ERP systems for analysis.

### Sensor configuration with moneo|configure SA

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.

## Connection technology

Type	Description	Order no.	
<b>Ethernet cable (fieldbus)</b>			
	0.5 m	<b>EVC924</b>	<b>EVC904</b>
	2 m	<b>EVC926</b>	<b>EVC906</b>
	5 m	<b>EVC927</b>	<b>EVC907</b>
	10 m	<b>EVC928</b>	<b>EVC908</b>
<b>M12 socket, connection cable 2.5 mm<sup>2</sup>, L-coded (power)</b>			
	2 m	<b>E12641</b>	<b>E12654</b>
	5 m	<b>E12642</b>	<b>E12655</b>
	10 m	<b>E12643</b>	<b>E12656</b>
	20 m	<b>E12644</b>	<b>E12657</b>
<b>M12 connection cable 0.34 mm<sup>2</sup> (sensor)</b>			
	1 m	–	<b>EVC042</b>
	2 m	–	<b>EVC043</b>
	5 m	–	<b>EVC044</b>
	10 m	–	<b>EVC493</b>
<b>Wirable</b>			
	M12 connector L-coded, (power)	–	<b>E12673</b>
	M12 socket L-coded (power)	–	<b>E12672</b>

## Products

Type	Description	Order no.
<b>IO-Link master PerformanceLine Coolant</b>		
	Profinet 4 ports	<b>AL1400</b>
	EtherNet/IP 4 ports	<b>AL1420</b>
	EtherCat 4 ports	<b>AL1430</b>
	Profinet 8 ports	<b>AL1402</b>
	EtherNet/IP 8 ports	<b>AL1422</b>
	EtherCat 8 ports	<b>AL1432</b>

## Technical data

IO-Link master PerformanceLine Coolant	Order no.	
	<b>AL1400</b> <b>AL1420</b> <b>AL1430</b>	<b>AL1402</b> <b>AL1422</b> <b>AL1432</b>

### Actuator supply UA

Total current rating	[A]	8
Current rating per port	[A]	2 (adjustable: 0...2; factory setting: 2)

### Sensor supply US

Total current rating	[A]	3.6
Current rating per port	[A]	2 (adjustable: 0...2; factory setting: 0.45)

Number of IO-Link ports	4 B ports	4 A ports 4 B ports
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Number of binary inputs (IO-Link in SIO mode)	4	4 + 8
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Number of binary outputs (IO-Link in SIO mode)	4 + 4	4 + 8
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Protection rating	IP 65, IP 66, IP 67	
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Housing materials	Polyamide; socket: nickel-plated brass	
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## Accessories

Type	Description	Order no.
	<b>moneo configure SA</b> (Stand-alone) licence, software for online and offline parameter setting of IO-Link devices including maintenance and support until the end of the following year	<b>QMP010</b>
	Coolant, M12 protective caps (10 pcs)	<b>E73004</b>