



IO-Link



Maximum flexibility: IO-Link multiport modules



IO-Link modules



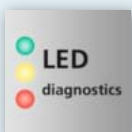
Configurable digital and analogue input / output functions via IO-Link communication in just one module

8 independently configurable I/O ports

Electrical separation between auxiliary voltage and IO-Link

Digital input filters, powerful outputs (2 A each)

Parameter setting and diagnostics via IO-Link



Any combinations possible in just one module

These IO-Link modules allow connection of conventional digital and analogue sensors as well as digital actuators to IO-Link. To do so, the modules feature 8 flexible ports that can be configured independently: as digital inputs and outputs, as analogue input (4...20 mA or 0...10 V).

This unique capability to freely configure in any combination of analogue and digital ports in one module saves cost. You only need one free IO-Link port on the controller.

Heavy-duty outputs for actuators

The powerful switching outputs of the PerformanceLine versions can switch currents up to 2 A (16 A per module). The electrical separation between supply voltage and IO-Link communication provides maximum protection.



IO-Link modules	Order no.						
coolant	AL2605	–	AL2303	AL2301	AL2325	AL2323	AL2321
food	–	AL2205	AL2203	AL2201	AL2225	AL2223	AL2221
Type	MP-AUX	MP-AUX	MP-B-port	MP-A-port	DX-AUX	DX-B-port	DX-A-port
Configurable input signals	DI, 0...10 V, 4...20 mA	DI, 0...10 V, 4...20 mA	DI, 0...10 V, 4...20 mA	DI, 0...10 V, 4...20 mA	DI	DI	DI
Configurable output signals	DO	DO	DO	DO	DO	DO	DO
External voltage supply	L kodiert	A kodiert	–	–	A kodiert	–	–
US and UA electrically separated	•	•	•	–	•	•	–
Switchable current per module	16 A	2 x 1,8 A	2 x 1,8 A	1 A	2 x 1,8 A	2 x 1,8 A	1 A
Device ID for cyclical configuration	1315	1315	1405	1407	–	–	–
Device ID for acyclical configuration	1316	1316	1406	1408	1314	1409	1314

Cyclical or acyclical port configuration

A key feature of the multiport modules from ifm is the flexibility of port configuration. The user can define a cyclical or an acyclical version via the selection of the respective device ID via IO-Link. This allows a cyclical or an acyclical configuration of the function of each port on the module (AI, DI, DO).

External voltage supply L-coded (Performanceline):

- Output current 16 A per module, 2 A per connection switchable
- Only available as coolant version
- L-coded supply cable necessary
- Electrical separation between the supply voltage and the IO-Link interface guarantees a reliable data communication (IO-Link compliant)
- Dual supply enables actuators to be switched off separately from sensors

External voltage supply A-coded (StandardLine):

- Output current limited to 1.8 A per 4 connections
- Available as a version for industrial applications or as a special version for the food industry
- Auxiliary voltage supply via standard cables possible
- Electrical separation between supply voltage and IO-Link interface
- Dual supply enables actuators to be switched off separately from sensors

Supply from A-port master

- Output current 1 A (total) for 8 connections switchable
- Voltage supply from the master's sensor supply, no additional external actuator supply
- Available as a version for industrial applications or as a special version for the food industry







Supply from B-port master

- Output current limited to 1.8 A per 4 connections
- Available as a version for industrial applications or as a special version for the food industry
- Electrical separation between supply voltage and IO-Link interface
- B-port master required

Common technical data

Operating voltage	[V DC]	18...30
Protection rating	AL2225, AL2221 AL2325, AL2321	IP 69K IP 65, IP 67
Number of inputs / outputs		16
Ambient temperature	[°C]	-25...60

Connection technology

Type	Description	Order no.
	Y connection cable, M12, PUR cable 1 m, halogen-free	EVC431
	Y connection cable, M12, MPPE cable, halogen-free	EVF329
	Y-splitter, coolant 1 x M12 connector, 2 x M12 socket, PA, brass	EBC113
	Y-splitter, food 1 x M12 connector, 2 x M12 socket, PA, stainless steel (316L / 1.4404)	EBF006
	Wirable socket, L-coded, screw terminals, M12 connector, PA, nickel-plated brass	E12672
	Connection cable with M12 socket power cable, L-coded, 2 m, PUR, black, PP, nickel-plated brass	E12641