



Linking digital IO signals in the field

I/O modules for PROFINET and EtherNet/IP

- Efficient network structure thanks to direct connection of sensors and actuators with the fieldbus level
- Integrated counter function for high-frequency counter applications and direct switching of the outputs
- Robust housing suited for use in environments with high hygiene requirements



IP67

IP69K

ifm – close to you!

Description	Order no.	
	Coolant (orange)	Food (grey)
StandardLine		
PROFINET	AL4202	AL4203
EtherNet/IP	AL4222	AL4223
Modbus TCP	AL4242	AL4243
PerformanceLine		
PROFINET	AL4302	AL4303
EtherNet/IP	AL4322	AL4323
Modbus TCP	AL4342	AL4343

Ethernet modules for field applications

The decentralised IO modules serve as a gateway between binary sensors / actuators and the fieldbus. This means that binary input and output signals in the field can be transmitted directly via the fieldbus. No further transmission systems are needed in the fieldbus topology.

Robust and permanently tight

In combination with ifm's ecolink connection technology, the ifm modules are the perfect choice, even for the most difficult applications. The materials and production methods are identical to the ifm jumper cables of the tried-and-tested EVC and EVF product series. The ecolink technology guarantees reliable, permanently ingress-resistant M12 connections of the connection cables.

Extension with digital input / output modules

The new Ethernet modules are the perfect addition to ifm's IO-Link master family. They feature the same design, port configuration and standardised M12 connections. The upper 4 output ports allow an output current of up to 3.6 A, while the lower 4 ports enable the connection of sensors.

Common technical data	
Voltage supply StandardLine PerformanceLine	M12 A-code M12 L-code, daisy chain option
Number of inputs and outputs	4x 2 DO (UA) 4x 2 DI (US)
Current rating of the outputs StandardLine PerformanceLine	3.6 A Port 1 + 4 3.6 A Port 1 + 2 3.6 A Port 3 + 4
Counter application	yes
Output switching function (SSC)	adjustable per counter
Passive safety	PL d
Coolant (orange) Protection rating Housing Socket / connector	IP67 polyamide nickel-plated brass
Food (grey) Protection rating Housing Socket / connector	IP69K polyamide stainless steel

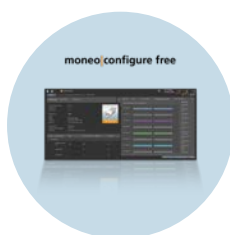
Integrated counter function

Sensor pulses are counted within the module and are cyclically transmitted to the PLC as a counter packet. This provides an accurate count that is not affected by the controller's cycle time. Direct control of the outputs with different switching logics is thus enabled.

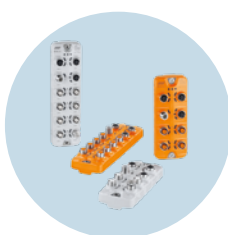
Powerful voltage supply

For power supply, the PerformanceLine modules have L-coded M12 connections with 2x16A. This allows daisy-chaining. The StandardLine modules offer A-coded M12 connections with 3.9 A (US) and 4 A (UA).

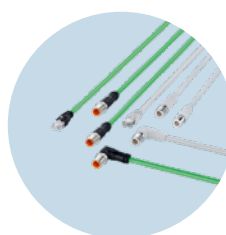
BEST FRIENDS



moneo|configure free
Software for parameter setting
of the IO-Link infrastructure



IO-Link masters
Transmission of data and
parameters to the PLC



Ethernet cables
Available in various lengths
and versions



For further technical
details, please visit:
ifm.com/fs/AL4202