



Digital sensor signals

Non-stop transmission via fieldbus

- Digital input modules for PROFINET, EtherNet/IP, EtherCAT and Modbus TCP
- Direct connection of sensors simplifies network structure
- Integrated counter function for high-frequency counter applications
- Robust housing suited for use in environments with washdown cleaning requirements



IP67

IP69K

ifm – close to you!

| Description | Order no. | |
|------------------------|------------------|---------------|
| | Coolant (orange) | Food (grey) |
| StandardLine | | |
| PROFINET | AL4002 | AL4003 |
| EtherNet/IP | AL4022 | AL4023 |
| EtherCAT | AL4032 | AL4033 |
| Modbus TCP | AL4042 | AL4043 |
| PerformanceLine | | |
| PROFINET | AL4102 | AL4103 |
| EtherNet/IP | AL4122 | AL4123 |
| EtherCAT | AL4132 | AL4133 |
| Modbus TCP | AL4142 | AL4143 |

Ethernet modules for field applications

The decentralised DI modules serve as a gateway between binary sensors and the fieldbus. This means that binary switching 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

The ifm modules 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 and EVF product series.

The ecolink technology guarantees reliable, permanently ingress-resistant M12 connections of the connection cables.

| Common technical data | |
|--|---|
| Voltage supply StandardLine PerformanceLine | M12 A-code M12 L-code, Daisy chain option |
| Number of digital inputs | 2 x 8 (type 2 to IEC 61131-2) |
| Coolant (orange) Protection rating Housing Socket / connector | IP67 polyamide nickel-plated brass |
| Food (grey) Protection rating Housing Socket / connector | IP69K polyamide stainless steel |

Expansion of the IO-Link master family with digital input modules

The Ethernet modules are the perfect addition to ifm's IO-Link master family. They feature the same design, port configuration and standardised M12 connections.

Integrated counter function for high-frequency counter applications

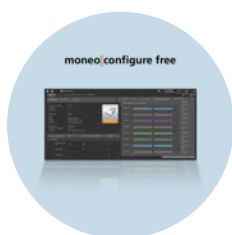
Sensor pulses are counted within the module and are cyclically transmitted to the PLC as a counter packet. This ensures accurate counting that is not affected by the cycle time of the PLC.

Powerful voltage supply

For voltage supply, the modules offer an A-coded M12 connector with 1 x 4 A and an L-coded M12 connector with 2 x 16 A including daisy chain functionality.

BEST FRIENDS

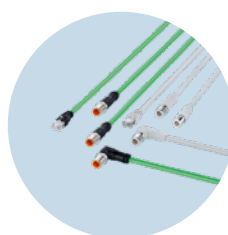
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moneo|configure free
Software for parameter setting of the IO-Link infrastructure



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/AL4002