# Smooth flow of information

**Field-compatible IO-Link master with OPC UA server**

- Integrated IODD interpreter converts sensor data into readable information

- Direct data transfer to on-premises IT levels via OPC UA

- Fieldbus multiprotocol with PROFINET and EtherNet/IP provides flexibility in the choice of controller

**IO-Link**  **IP67**  **IP69K**

**ifm** – close to you!

| Description | Order no. | |
|---|---|---|
| | **Coolant (orange)** | **Food (grey)** |
| **SolutionBlock** | | |
| PROFINET, EtherNet/IP, OPC UA | **AL1590** | **AL1591** |

| Technical data | |
|---|---|
| Voltage supply | M12, L-code, 16 A (US), 16 A (UA) daisy chain option |
| Fieldbus port | M12, D-code PROFINET, EtherNet/IP, daisy chain option |
| IoT port | M12, D-code OPC UA, HTTP(S), MQTT, JSON daisy chain option |
| IO-Link ports | 4 A ports, 4 B ports |
| Number of inputs and outputs | 12 DI / 12 DO |
| **Current rating of the outputs** UA (total / port)  [A] US (total / port)  [A] | 4 / 4 3.9 / 2 |
| **Coolant (orange)** Protection rating Housing Socket / connector | IP67 polyamide nickel-plated brass |
| **Food (grey)** Protection rating Housing Socket / connector | IP69K polyamide stainless steel |

## Multiprotocol capability provides flexibility in the choice of controller

The field-compatible SolutionBlock IO-Link master makes system digitalisation more convenient than ever: The multiprotocol capability allows free selection of PROFINET or EtherNet/IP as fieldbus, which makes connection to different controllers more flexible and reduces stock-keeping.

## OPC UA server and IODD interpreter integrated in the master

In addition, the integrated OPC UA server and the additional IoT port ensure an uncomplicated, direct connection to the IT level. Thanks to the integrated IODD interpreter, the sensor data is converted into readable information directly in the IO-Link master, making software-supported data evaluation even easier.

## Data reduction thanks to the moneo|configure plug-in

The moneo|configure plug-in makes it possible to select and reduce the cyclic data of an IO-Link device. The SolutionBlock IO-Link master receives all process values from the IO-Link devices, but only forwards the selected information to the controller. This significantly reduces cyclic data communication on the fieldbus.
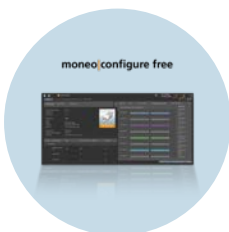
## Powerful and easy to connect

To minimise the need for cables, the SolutionBlock IO-Link master is equipped with a daisy chain functionality for both voltage supply with a maximum of 16 A via L-coding and for fieldbus and IoT communication, which enables the masters to be connected in series. Four A ports and four B ports provide sufficient options for connecting sensors and actuators.

## BEST FRIENDS

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



**IP67 power supply**
24 volt supply in the field, controllable via IO-Link



**Ethernet switch**
Extends the vehicle infrastructure by 6 ports



*For further technical details, please visit:*
*ifm.com/fs/AL1590*