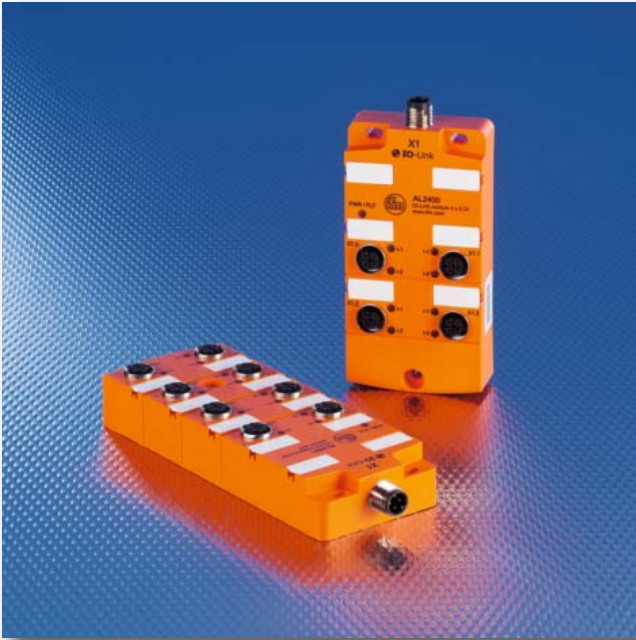
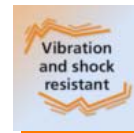


# IO-Link I/O module minimises wiring costs for sensors



## Effective connection of binary sensors to any IO-Link master

- Up to 8 locations with two binary inputs each
- Unscreened standard M12 cable sufficient for data and energy transmission
- High protection rating IP 67
- Robust due to full potting



### Field modules with IO-Link connection

Up to eight conventional sensors can be connected to these modules. IO-Link transfers the signals to any IO-Link master / PLC via one unscreened M12 connection cable. Wiring costs are reduced because there are no longer any complex cable trees.

As opposed to bus systems IO-Link does not require any configuration or addressing. This simplifies installation.

### Two binary inputs per M12 socket

Pin 4 and pin 2 of each socket are used for one input. That means that dual sensors, normally closed or normally open, can be connected without any problem.

### Robust field device

The modules allow use in a wide temperature range of -25...70 °C. The high EMC and the robust mechanics guarantee high availability even in difficult environments.



Wire 16 signals with three wires.

**Advantages and customer benefits**

• **IO-Link replaces multi-pole cable**

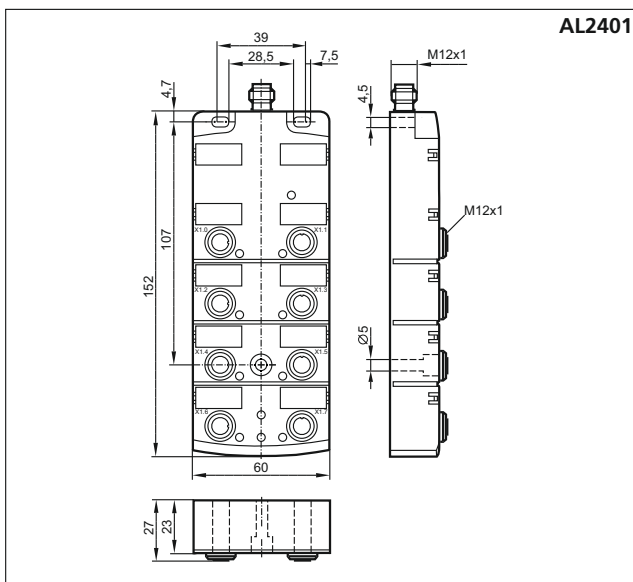
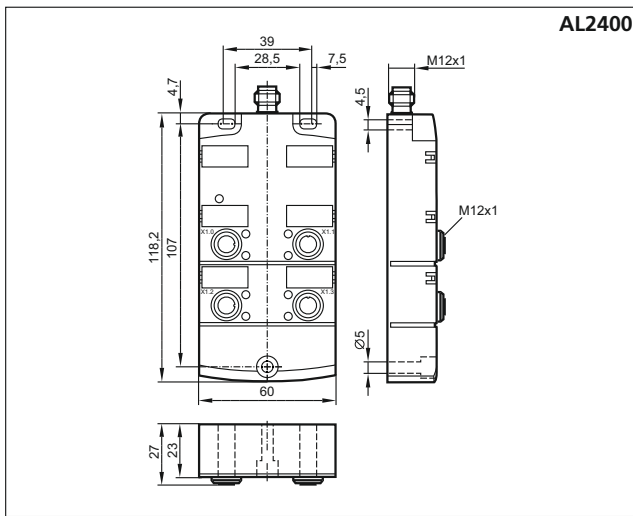
Multi-wire cables and connectors are a matter of the past. Standard M12 connections between the input module and an IO-Link master transfer up to 16 binary input signals.

• **Support of interchangeable tools**

The tree-wire connection minimises complex cabling for interchangeable tools.

The input modules can store a tool number so that the PLC can easily identify and differentiate tools.

**Dimensions**



**Technical data**

IO-Link input modules		
Operating voltage	[V DC]	18...30
IO-Link version		1.1 and 1.0
Type of transmission		COM2 (38 kBaud)
Min. cycle time process data	[ms]	2.3
Protection		IP 67
Ambient temperature	[°C]	-25...70
Short-circuit protection		•
Overload protection		•

Unit versions		
Order no.	AL2400	AL2401
M12 sockets	4	8
Number of binary inputs	4 x 2	8 x 2
Total current consumption	[mA] ≤ 450	≤ 850
Current rating for all outputs, total	[mA] 400	800