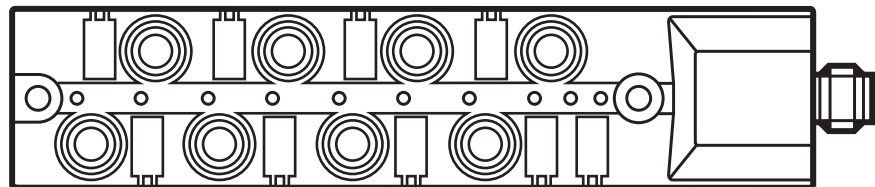


Operating instructions
AS-i CompactModule M8

UK

AC2490

80272461/00 03/2018



1 Preliminary note

Technical data, approvals, accessories and further information at www.ifm.com.

2 Safety instructions

- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (→ Functions and features).
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the product must be carried out by qualified personnel authorised by the machine operator.
- The plant operator is responsible for the safety of the plant in which the device is installed.
- If the device is not used as intended by the manufacturer, the protection supported by the device may be impaired.
- Protect units and cables against damage.

2.1 Symbols used

▶ Instructions

→ Cross-reference



Important note

Non-compliance may result in malfunction or interference.



Information

Supplementary note.

3 Functions and features

- Maximum number of modules per master: 62
- AS-Interface version 3.0, downward compatible
- 4 inputs / 4 outputs / AS-i profile S-7.A.7 / extended addressing mode: yes
- The unit can only be operated in conjunction with a version 3.0 master (master profile M4).

4 Installation



▶ Disconnect the system from power before installation.

▶ For installation choose a flat mounting surface.

The entire bottom of the module must lie flat on the mounting surface.

▶ Fix the module onto the mounting surface using M4 screws and washers.


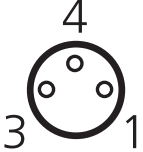
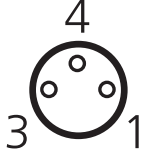
5 Electrical connection

▶ Disconnect the installation from power and connect the unit.

To ensure the protection rating:

- ▶ Connect the plugs of the sensors to the M8 sockets.
- ▶ Tighten firmly, recommended tightening torque 0.3...0.5 Nm.
- ▶ Cover the sockets that are not in use with the enclosed protective caps.

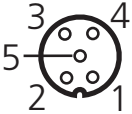
5.1 Pin connection

<p>Socket M12 1: AS-i + 2: AUX - 3: AS-i - 4: AUX +</p>			
<p>Input M8 1: sensor supply + 3: sensor supply - 4: data input</p>		<p>Output M8 3: external voltage E- 4: switching output</p>	

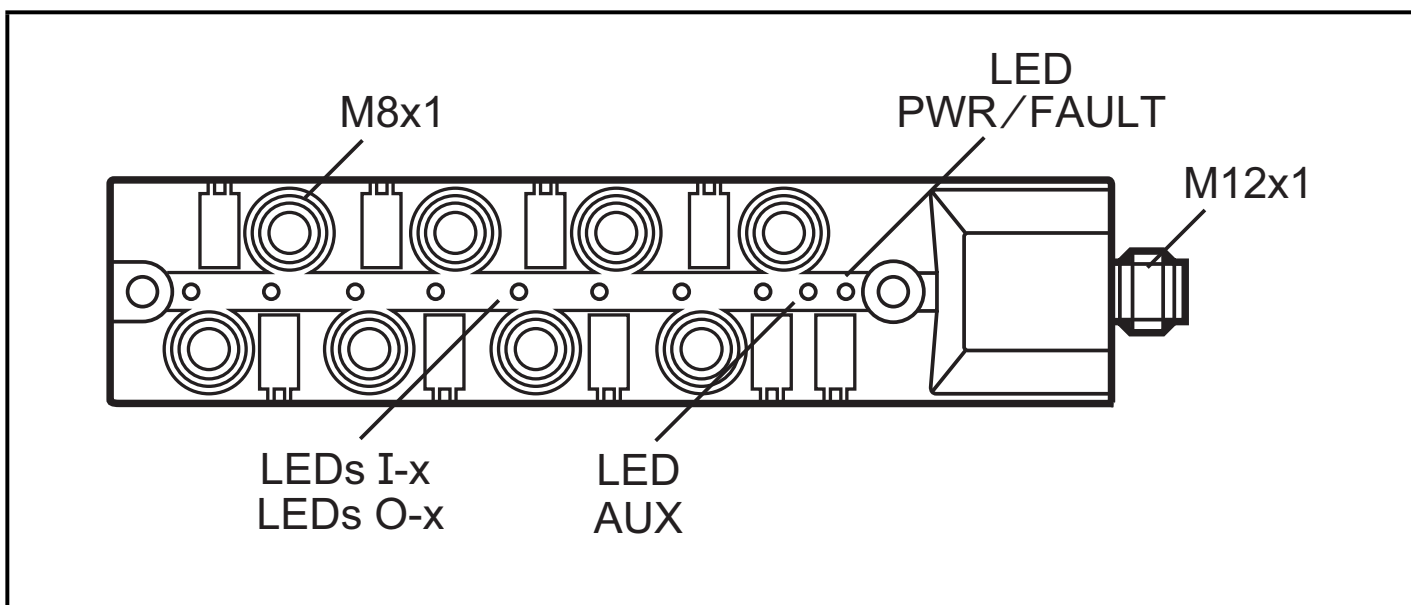
Parameter bit	Designation	Description
P1	Periphery fault	1 peripheral fault indication active 0 peripheral fault indication not active

6 Addressing

- Addressing the unit via the M12 connector; the address is set to 0 at the factory.

Addressing unit AC1154 Wiring of the addressing socket		1: SFC-i + / 2: TTL → / 3: SFC-i - 4: TTL ← / 5: + 5 V
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7 Operating and display elements



8 Operation

LED I-x / O-x yellow:	input / output switched
LED PWR green:	AS-i voltage supply OK
LED AUX green:	External voltage supply (AUX) o.k.
LED FAULT red is lit:	AS-i communication error, slave does not participate in the "normal" exchange of data, e.g. slave address 0.
LED FAULT red flashes:	Periphery fault, e.g. sensor supply overloaded or shorted, is signalled to the AS-i master (version 2.1 or higher).