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Operating instructions ClassicLine module

AS interface AC5210

UK

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1 Functions and features

- Maximum number of modules per master:
 - 31 (2 independent A/B slaves per module)
- AS-interface version 3.0, downward compatible

2 Operating and display elements



- 1: addressing interface
- 2: LED
- 3: 8 M12 sockets
- 4: labels
- 5: LED FAULT
- 6: LED PWR

3 Installation



Alignment of the flat cable on delivery

Carefully place the yellow AS-i flat cable into the profile slot.

Mount the upper part.

Lock the unit.



With the supplied lower part the flat cable can be aligned in three directions.

For the requested direction place the flat cable guide (1) accordingly.



Settings at the lower part

Select the position 1, 2 or 3 depending on the requested flat cable alignment (\rightarrow) .

A = factory setting



Settings at the upper part

Then set the selected position at the upper part. To do so, turn the triangle to the corresponding number (fig. D1 and D2).

Use a tool, e.g. a screwdriver (figure D1) or the yellow flat cable guide (figure D2).

Open the unit



Open the unit using a tool as shown (e.g. screwdriver).

Take care in laying the AS-i flat cable, the flat cable should be laid straight for about 15 cm.

4 Electrical connection

Connect the plugs of the sensors to the M12 sockets, tightening torque 0.6...0.8 Nm.

To guarantee protection rating IP 67

- cover the unused sockets with protective caps (E73004)*, tightening torque 0.6...0.8 Nm.
- the flat cable end seal (E70413)* must be used if the module is at the end of the cable line.
 * to be ordered separately

5 Addressing

The address is set to 0 at the factory.

5.1 Addressing with the AC1154 addressing unit

When mounted and wired the module can be addressed with the addressing cable (E70213) via the implemented addressing interface.

In the factory setting, initially only the first slave gives a signal on address 0. It can be addressed to any address between 1A...31B. Once this slave is addressed, the second slave is automatically indicated on the display of the AC1144 with address 0 and can then also be addressed to any address between 1A...31B.

Important:

Both slaves can be assigned any A/B addresses (e.g. 3A/6A or 9A/25B etc.). No address can be assigned doubly (e.g. 3A/3A or 9B/9B etc.).

Restore the factory setting (address both slaves to 0)

Using the addressing unit AC1154 the factory setting of the module is restored by writing a 0 to ID1 of the second slave (factory setting ID1 = 2) by the internal software.

If a slave with the ID code "A" (option of extended addressing mode) is connected to a master of the first generation (version 2.0), the parameter P3 must be 1 and the output bit D3 = 0*. The output bit D3 must not be used. * default setting

If a slave with the ID code "A" (option of extended addressing mode) is connected to a master of the first generation (version 2.0), an address between 1A and 31A must be assigned to this slave.

AC5210

8 inputs / AS-i profile 2x S-0.A.E / extended addressing mode: yes

Data bit	D0	D	1	D2	D	3
Input	11		1	13	4	4
Socket	I-1/2	I-1/2	I-2	I-3/4	I-3/4	I-4

Y-circuit inputs



6 Operation



Avoid build-up of dirt and dust on the upper and lower parts so that the locking mechanism is not affected.

LED yellow:	input switched
LED PWR green:	AS-i voltage supply ok
LED FAULT red lights:	AS-i communication error, slave does not participate in the "normal" exchange of data, e.g. slave address $\ensuremath{0}$
LED FAULT red flashes:	peripheral fault, e.g. sensor supply / output overloa- ded or shorted

Overload and short circuit of the input supply and the outputs are signalled as peripheral fault to the AS-i master (version 2.1 or higher).

7 Technical data

Technical data and further information at www.ifm.com --> Select your country --> Data sheet search