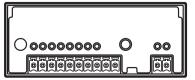


Operating instructions AS-i PCB module

#### **A5** interface

AC2750 AC2751 AC2752 AC2753





### 1 Preliminary note

An instruction is indicated by "▶".

Example: ► Mount the unit as shown.

!

Important note

Non-compliance can result in malfunction or interference.

## 2 Safety instructions

- · Please read the operating instructions prior to set-up of the device.
- Ensure that the product is suitable for your application without any restrictions.
- · The unit conforms to the relevant regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application.
- Installation, electrical connection, set-up, operation and maintenance of the unit must only be carried out by qualified personnel authorised by the machine operator.

#### 3 Functions and features

The AS-i module functions as digital I/O slave in the AS-i system and is exclusively supplied via AS-i. It connects 4 sensors (2-wire sensors or 3-wire sensors) and max. 4 actuators (pnp) with the AS-i master.

- · Maximum number of modules per master: 62 (A/B slave)
- Watchdog function: If the connection to the master is interrupted for more than 40 ms, all outputs are disconnected.
- AS-Interface version 3.0, downward compatible

#### 4 Installation



▶ Disconnect the system from power before installation.

- Install the module in a protected location, e.g. in a housing with at least IP 54. Use the supplied adhesive pad or the DIN rail adapter E70432 (accessory) for fixing.
- When using the adhesive pad, the surfaces must be kept free from dust, oil, release agents and other kinds of contamination.

- ▶ Position the adhesive pad in the centre of the back of the PCB module.
- Carry out a set-up test after installation of the module.

#### 5 Electrical connection

- The unit must be connected by a qualified electrician.
  - The national and international regulations for the installation of electrical equipment must be adhered to.
- ▶ Disconnect the installation from power and connect the unit.

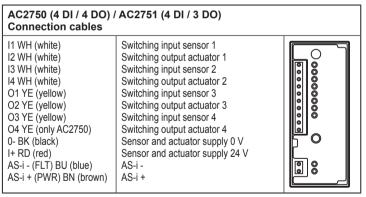
#### 5.1 External protective circuitry for inductive loads

The switch-on and switch-off capacity for triggering solenoids is rated up to 2.5 W (IEC 60947-5-1, utilisation category DC-13).



Recommendation: For inductive loads use a free wheel diode on the load.

## 5.2 Wiring

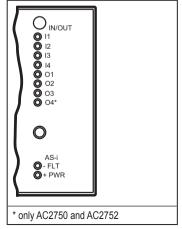


AC2752 (4 DI / 4 DO) / AC2753 (4 DI / 3 DO) Screw terminal		
11	Switching input sensor 1	
12	Switching input sensor 2	
13	Switching input sensor 3	
14	Switching input sensor 4	
01	Switching output actuator 1	
O2	Switching output actuator 2	
03	Switching output actuator 3	o l
O4 (only AC2752)	Switching output actuator 4	
0-	Sensor and actuator supply	
	0 V	
+	Sensor and actuator supply	
	24 V	
AS-i - (FLT)	AS-i -	
AS-i + (PWR)	AS-i +	

## 6 Addressing

Assign a free address between 1A/1B and 31A/31B. At the moment of delivery the address is 0.

# 7 LED display



## 8 Operation

LED Ix / Ox yellow: input / output switched
LED PWR green: AS-i voltage supply ok

LED FLT red lights: AS-i communication error, slave does not participate in the

"normal" exchange of data, e.g. slave address 0

LED FLT red flashes: periphery fault, e.g. sensor supply overloaded or shorted,

is signalled to the AS-i master (version 2.1 or higher).

## 9 Maintenance, repair and disposal

The operation of the unit is maintenance-free.

After use dispose of the unit in an environmentally friendly way in accordance with the applicable national regulations.

#### 10 Technical data

Technical data and further information at www.ifm.com.