

Module MD 12

» Hardware module with 12 digital inputs

» OVERVIEW



Fig. MD 12

The **MD 12** device is a digital input module with 12 channels and can only be used in combination with the aditec controllers **MS 120**, **MS 220**, **MIC 900**, **MIC 1100**, **MIC 3000**, **MKA 500** and **MKA 800**. The CAN-BUS interface is used for programming and communication with the basic unit. The module is designed for mounting on a DIN rail in control cabinets.



The MD 12 module can only be used in combination with the aditec controllers MS 120, MS 220, MIC 900, MIC 1100, MIC 3000, MKA 500 and MKA 800!

» FEATURES

- **12x digital inputs**
- **1x CAN interface** for communication with the base unit and for programming
- The module can be connected **centralised** (no wiring needed for communication) or **decentralised** (via cable connection) to the basic units in separate control cabinets.

Basic devices:

- **MS 120 / MS 220**
Extension with max. 3 MD 12 units
- **MIC 900 / MIC 3000**
Extension with max. 3 MD 12 units
- **MIC 1100**
Extension with max. 1 MD 12 unit
- **MKA 500 / MKA 800**
Extension with max. 1 MD 12 unit

» LED STATUS DISPLAY

- **LED 1=** Power (lights up green)
- **LED 2=** Operation (lights up green)
- **LED 3=** Communication (flashes green)
- **LED 4=** Error (flashes red)



» TECHNICAL DATA

General data

Dimensions	22,5m x 104mm x 106,5mm (W x H x D)	Without connection elements
Material	Robust stainless steel housing (1.4016)	Ideal for use in the food industry
Cooling	Passive (without fan)	
Own weight	Ca. 250 g	
Operation temperature	-20 to +65°C	
Storage temperature	-50 to +75°C	
Air humidity	35% - 80% (non-condensing)	
Atmosphere	Non-aggressive gases	
Protection class	IP20 according to EN 60529	

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Electrical data		
Power supply	24V DC +25% -20%	
Residual ripple	5%	
Current consumption module	Min. 20mA at 24V DC Max 70mA at 23V DC	
Power consumption module	Max. 2W	With 12 closed digital inputs
Electrical safety	According to DIN EN 61010-1 Overvoltage category III	
Electromagnetic compatibility	Emitted interference: Class A for industrial use Interference immunity: For industrial requirements	According to DIN EN 61326-1
Connections	Removable terminals in push-in technology (spring terminals)	
Wire cross-section Braid with wire end sleeve Single wire flexible or fixed	Min. 0,14 mm ² max. 1,0 mm ² Min. 0,14 mm ² max. 1,5 mm ²	Stripping length 11 mm
12x digital inputs		
D01 - D12	Potential free contacts	Not useable as counting inputs
Galvanic isolation		
Mains input 24V DC	2,5 kV	
Digital inputs	3,75 kV	

» DIMENSIONS / CONNECTION DIAGRAM

