

# SFAR-1M-4DI-M

SFAR-1M-4DI has 4x DI (Digital Inputs). Digital Inputs can work as fast pulse counter up to 1 kHz with **save to FRAM memory**, support PNP or NPN input types. All inputs are separated from power supply and RS485 block with use of optical isolators.

Built-in **RS485** interface allows to easy connection over **Modbus RTU/ASCII** protocol with a PLC makes the modules an external I/O. The use of **32-bit ARM** core processor provides fast processing and communication with the baud rate from 2400 to 115200 bps. The module is equipped with a set of **LEDs** used to indicate the status of inputs, power supply and RS485 communication. This feature is useful for diagnostic purposes and helping to find errors.

Built-in mini **USB** allows for initial configuration of the unit without power supply.

## Key Features

- 4x opto-isolated Digital Input can work as 32-bit impulse counters or timer
- Non-volatile FRAM memory for counters
- Closed contact or Digital Input work modes
- Support for 2 encoders
- Built-in LEDs for device status indication
- Modbus RTU/ASCII communication
- Baud rate: 2400 bps to 115200 bps
- Up to 128 modules on the bus
- Built-in mini USB type B port for configuration
- Space-saving housing, DIN rail mount



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## Specification

### Digital Inputs (DI)

- Input type: PNP or NPN
- Fast pulse counter up to 1 kHz save to FRAM memory
- Time counting in ms for active input
- DI1-DI4- encoders support

### Platform

- ARM Cortex-M3

### Communication

- Interface RS485 half-duplex
- Up to 128 devices on the bus
- Protocol: Modbus RTU/ASCII
- Baud rate: 2400 to 115200 bps
- Interface mini USB type B

### Power supply

- 10-36 V DC  $\pm$  20%

### Housing

- Dimension WxHxD: 17x90x56 mm
- Construction: UL approved, self-extinguishing plastic (PC/ABS)
- DIN rail mounting DIN (DIN EN 50022 norm)
- Cooling: internal air circulation

### Environment

- Operating temperature: -10°C to 50°C
- Storage temperature: -40°C to 85°C
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40 – for indoor installation

## Dimensions

