

# SFAR-S-8DI8DO

SFAR-S-8DI8DO has 8x DI (Digital Inputs) and 8x DO (Digital Outputs). Digital Inputs can work as fast pulse counter up to 1 kHz and support PNP or NPN input types. Digital Outputs are PNP transistor outputs with maximum load 500 mA, 30 V DC. All inputs and outputs are isolated from RS485 and power supply 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, outputs, 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.

To simplify installation the modules have been equipped with Quick Connector system. Using dedicated SFAR-S-LINK cable allows to connect up to 15 modules which provide both RS485 communication and power supply.

## Key Features

- 8x opto-isolated Digital Input
- 8x opto-isolated Digital Output
- Every DI works as 32-bit impulse counter or time counter
- Support for encoder
- 55 V @ 250 mA per output
- 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
- Dedicated TCP/IP to Modbus RTU/ASCII gateway device SFAR-S-ETH
- Built-in mini USB type B port for configuration
- Fast and easy connection with SFAR-S-LINK
- Space-saving housing, DIN rail mount



# SFAR-S-8DI8DO

## Specification

### Digital Inputs (DI)

- Input type: PNP or NPN
- Fast pulse counter up to 1 kHz
- Time counting in ms for active input
- DI1-DI4 – 2x encoder support

### Digital Outputs (DO)

- Transistor output (PNP) max. 500 mA, 30 V DC

### 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

- 12-24 V DC  $\pm 20\%$

### Housing

- Dimension WxHxD: 22.7x110.9x119.1 mm (0.894x4.366x4.689 in)
- 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 (14°F to 122°F)
- Storage temperature: -40°C to 85°C (-40°F to 185°F)
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40 – for indoor installation

## Dimensions

