

SFAR-S-8DI8RO

SFAR-S-8DIDO has 8x DI (Digital Inputs) and 8x RO (Relay Outputs). Digital Inputs can work as fast pulse counter up to 1 kHz and support PNP or NPN input types. RO are relay outputs 230 V AC/30 V DC max. 3 A. 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
- Every DI works as 32-bit impulse counter or time counter
- Support for encoder
- 8x Relay Output grouped into 4 with a common
- 3 A @ 30 V DC or 3 A @ 250 V AC for each common
- 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



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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

Relay Outputs (RO)

- Relay Output (NO) max. 3 A @ 30 V DC, 3 A @ 230 V AC

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

