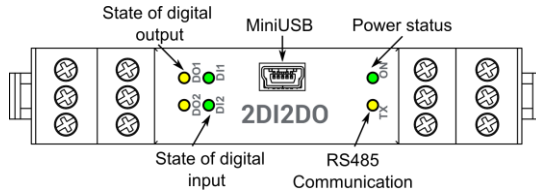


## SFAR-1M-2DI2DO



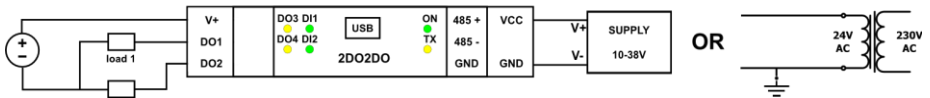
SPECIFICATION		
Supply	Voltage	10-38 V DC; 10-28 V AC
	Power consumption	1 W @ 24 V DC; 2 VA @ 24 V AC
Digital inputs	2x, logical "0": 0-3 V, logical "1": 6-38 V Isolation 1500 Vrms	
Digital outputs	2x Transistor output NPN type max 55 V DC, max 250 mA Isolation 1500 Vrms	
Counters	2x, Resolution 32-bit Frequency max 1 kHz	
Transmission speed	from 2400 to 115200 bps	
Ingress Protection	IP40 – for indoor installation	
Temperature	Operating -10°C - +50°C; Storage -40°C - +85°C	
Relative humidity	5 to 95% RH (without condensation)	
Connectors	Max 2.5 mm2	
Dimension	90 mm x 56,4 mm x 17,5 mm	
Mounting	DIN rail mounting (DIN EN 50022)	
Housing material	Plastic, self-extinguishing PC/ABS	

### TOP PANEL



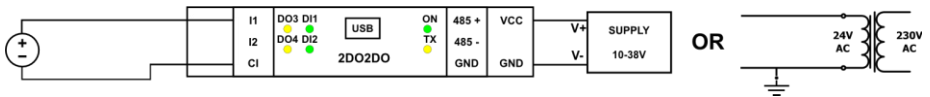
### Connection Outputs

#### Output connection (PNP)



### Connection Inputs

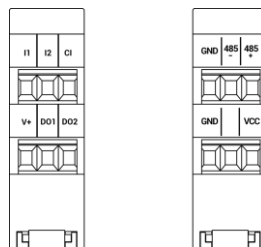
#### Input connection



### WARNING!

- Note, an incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.
- Before wiring, or removing/mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock.
- Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.
- Do not disassemble the product. Doing so might cause electric shock or faulty operation.
- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere etc.). Failure to do so might cause fire or faulty operation.
- Firmly tighten the wires to the terminal. Insufficient tightening of the wires to the terminal might cause fire.

### TERMINALS OF THE DEVICE



## Registered access

Modbus	Dec	Hex	Register Name	Access	Description
30001	0	0x00	Version/Type	Read	Version and Type of the device
30002	1	0x01	Address	Read	Module Address
40003	2	0x02	Baud rate	Read & Write	RS485 baud rate
40004	3	0x03	Stop Bits & Data Bits	Read & Write	No of Stop bits & Data Bits
40005	4	0x04	Parity	Read & Write	Parity bit
40006	5	0x05	Response Delay	Read & Write	Response delay in ms
40007	6	0x06	Modbus Mode	Read & Write	Modbus Mode (ASCII or RTU)
40009	8	0x08	Watchdog	Read & Write	Watchdog
40013	12	0x0C	Default Output State	Read & Write	Default output state (after power on or watchdog reset)
40033	32	0x20	Received packets MSB	Read & Write	No of received packets
40034	33	0x21	Received packets LSB	Read & Write	
40035	34	0x22	Incorrect packets MSB	Read & Write	No of received packets with error
40036	35	0x23	Incorrect packets LSB	Read & Write	
40037	36	0x24	Sent packets MSB	Read & Write	No of sent packets
40038	37	0x25	Sent packets LSB	Read & Write	
30051	50	0x32	Inputs	Read	Inputs state

Modbus	Dec	Hex	Register Name	Access	Description
40052	51	0x33	Outputs	Read & Write	Output state
40053	52	0x34	Counter 1 MSB	Read & Write	32-bit counter 1
40054	53	0x35	Counter 1 LSB	Read & Write	
40055	54	0x36	Counter 2 MSB	Read & Write	32-bit counter 2
40056	55	0x37	Counter 2 LSB	Read & Write	
40061	60	0x3C	CCounter 1 MSB	Read & Write	32-bit value of captured counter 1
40062	61	0x3D	CCounter 1 LSB	Read & Write	
40063	62	0x3E	CCounter 2 MSB	Read & Write	32-bit value of captured counter 2
40064	63	0x3F	CCounter 2 LSB	Read & Write	
40069	68	0x44	Counter Config 1	Read & Write	Counter Configuration +1 – time measurement (if 0 counting impulses) +2 – autocatch counter every 1 sec +4 – catch value when input low +8 – reset counter after catch +16 – reset counter if input low +32 – encoder
40070	69	0x45	Counter Config 2	Read & Write	
40073	72	0x48	Catch	Read & Write	Catch counter
40074	73	0x49	Status	Read & Write	Captured counter