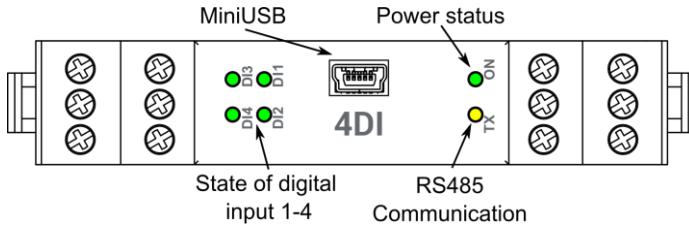


SFAR-1M-4DI

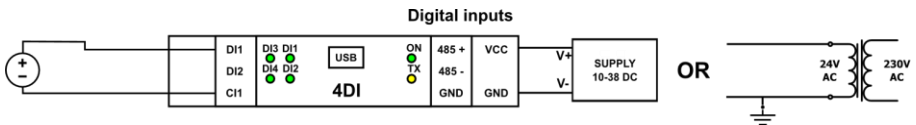


SPECIFICATION		
Supply	Voltage	10-38 V DC; 10-28 V AC
	Power consumption	1 W @ 24 V DC; 2 VA @ 24 V AC
Digital Inputs	4x, logical "0": 0-3 V, logical "1": 6-38 V Isolation 1500 Vrms	
Counters	4x, Resolution 32-bit Frequency max 1 kHz	
Transmission speed	from 2400 to 115200 bps	
Ingress Protection	IP40 – 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



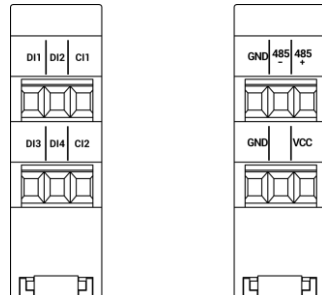
CONNECTION INPUTS



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
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
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	
40057	56	0x38	Counter 3 MSB	Read & Write	32-bit counter 3
40058	57	0x39	Counter 3 LSB	Read & Write	
40059	58	0x3A	Counter 4 MSB	Read & Write	32-bit counter 4
40060	59	0x3B	Counter 4 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	

Modbus	Dec	Hex	Register Name	Access	Description
40065	64	0x40	CCounter 3 MSB	Read & Write	32-bit value of captured counter 3
40066	65	0x41	CCounter 3 LSB	Read & Write	
40067	66	0x42	CCounter 4 MSB	Read & Write	32-bit value of captured counter 4
40068	67	0x43	CCounter 4 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	
40071	70	0x46	Counter Config 3	Read & Write	
40072	71	0x47	Counter Config 4	Read & Write	
40073	72	0x48	Catch	Read & Write	Catch counter
40074	73	0x49	Status	Read & Write	Captured counter