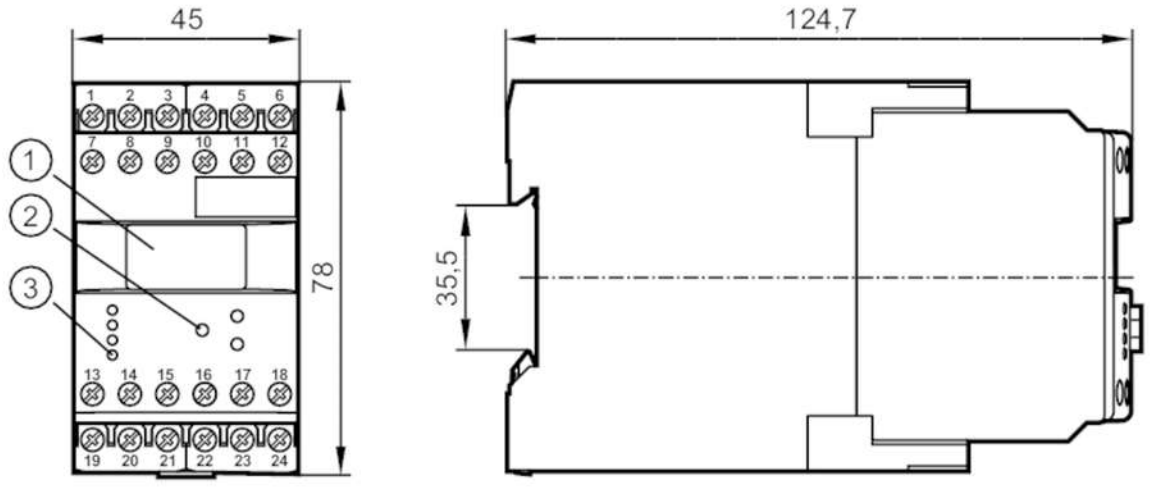
DD2503

Evaluation unit for speed monitoring

MONITOR/FR-1 /110-240VAC/DC



1 OLED display
2 programming buttons
3 LEDs

Product characteristics		
Housing		housing for DIN rail mounting
Dimensions	[mm]	78 x 45 x 124.7
Application		
Application		pulse evaluation system with microprocessor for frequency; rotational speed; speed; pulses and machine cycles
Electrical data		
Nominal voltage AC	[V]	110...240
Nominal voltage DC	[V]	27
Nominal voltage tolerance	[%]	< 10
Nominal voltage tolerance 2	[%]	20...10
Nominal frequency AC	[Hz]	50...60
Power consumption	[W]	3
Auxiliary energy for sensors DC	[V]	19.6...27.7; (SELV, ≤ 15 mA)
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1; Number of relay outputs: 2
Outputs		
Number of relay outputs		2
Contact rating		6 A (250 V AC, 30 V DC); B300, R300; (ohmic resistance)
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	500
Measuring/setting range		
Setting range Hz	[Hz]	0.1...1000
Setting range	[Imp/min]	1...60000

DD2503

Evaluation unit for speed monitoring

MONITOR/FR-1 /110-240VAC/DC

Operating conditions		
Ambient temperature	[°C]	-40...60
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	80; (40 °C: 50 %)
Protection		IP 50
Protection rating terminals		IP 20

Tests / approvals			
EMC		EN 61010	2011
		EMV 89/336/EWG	
		EN 61000-6-2	2005
		EN 61000-6-4	2007
MTTF	[years]	152	

Mechanical data		
Weight	[g]	381.5
Housing		housing for DIN rail mounting
Dimensions	[mm]	78 x 45 x 124.7
Materials		plastics

Displays / operating elements		
Display		OLED display, 128 x 64 pixels luminous
	switching status	LED, green

Remarks	
Remarks	The unit complies with overvoltage category II; pollution degree 2

Electrical connection

dual-chamber terminals: 2 x ...2.5 mm²; AWG 14

1	DC supply voltage (L-)
2	DC supply voltage (L+)
3	current supply transistor outputs (L+)
4	sensor signal pnp
5	DC Sensor supply (L+)
6	DC Sensor supply (L-)
7	AC supply voltage (L)
8	AC supply voltage (N)
9	not used
10	sensor signal npn
11	not used
12	not used
13	relay 1 common
14	relay 1 normally open
15	relay 1 normally closed
16	transistor output 1 pnp
17	reset 1 pnp
18	reset 2 pnp
19	relay 2 common
20	relay 2 normally open
21	relay 2 normally closed
22	analogue output (+)
23	analogue output (-)
24	transistor output 2 pnp