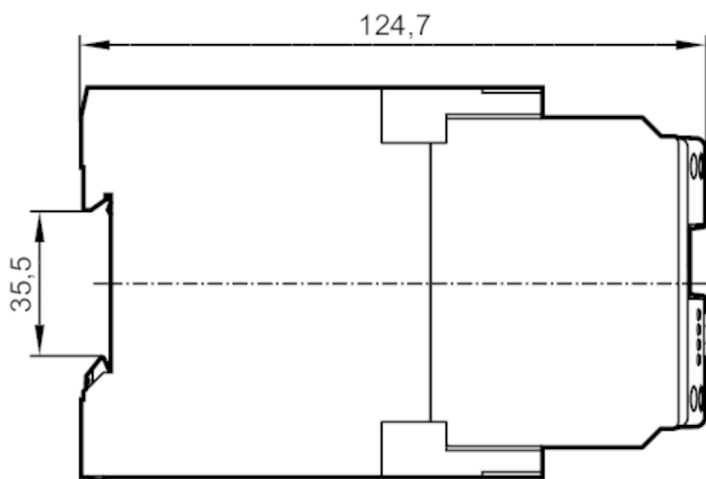
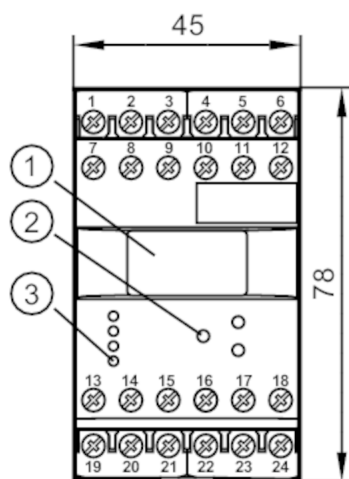


Evaluation unit for speed monitoring

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



- 1 OLED display
2 programming buttons
3 LEDs



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); B300, R300
Number of analogue outputs	1
Analogue current output	[mA] 4...20
Max. load	[Ω] 500

Detection zone

Sensing range adjustable

no

Measuring/setting range

Setting range Hz	[Hz]	0.1...1000
Setting range	[Imp/min]	1...60000

DD2503



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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
Mechanical data		
Weight	[g]	374.8
Housing		housing for DIN rail mounting
Dimensions	[mm]	78 x 45 x 124.7
Materials		plastics
Displays / operating elements		
Display	switching status	LED, green
		OLED display, 128 x 64 luminous
Remarks		
Remarks	The unit complies with overvoltage category II; degree of soiling 2	



Evaluation unit for speed monitoring

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

Electrical connection

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

1	DC supply voltage (L-)
2	DC supply voltage (L+)
3	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