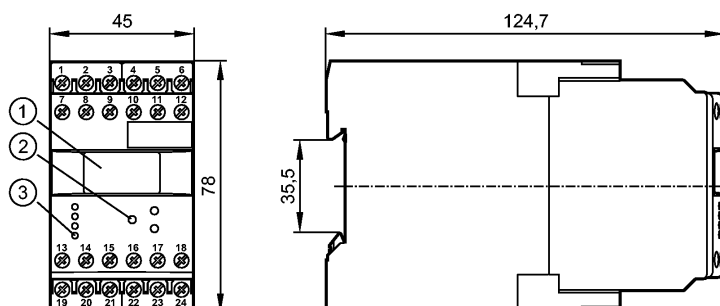




- 1: OLED display
2: Programming buttons
3: LEDs



Made in Germany

Product characteristics

MONITOR

FD-1

Housing for DIN rail mounting

2 relay outputs

2 transistor outputs

programmable

Test function without external frequency

Key function

Application

Application

pulse evaluation system with μ processor for direction monitoring and frequency;
rotational speed as well as speed

Switching function

1 switching output for indication of direction; 1 switching output for
overspeed/underspeed and acceptable range

Electrical data

Nominal voltage [V]

110...240 AC (50...60 Hz) / 27 DC (typ. 24 DC)

Voltage tolerance [%]

-20...+10

Power consumption [VA]

5 (3 W)

Inputs

Inputs

pnP/nPN; NAMUR (24 V)
auxiliary supply: typ. 24 V DC / 15 mA; short-circuit protected

threshold pnp: > 12 V on; < 5 V off

threshold npn: > 15 V off; < 8 V on

input frequency (max): 1 kHz (corresponds to min. pulse length / space 0.1 ms)

Outputs

Relay

Contact rating

6 A (250 V AC); B300, R300

Transistor

Transistor outputs

pnP; external supply
switching voltage/current: 24 V DC / max. 15 mA; short-circuit protected

Measuring / setting range

Adjustment range

cycle time: 0.0...1000 s
rotational speed (frequency): 1...60000 pulses/min (1...1000 Hz)

Accuracy / deviations

Measuring error [% of the final value]

< 1

Environment

Ambient temperature [°C]

-40...60

Storage temperature [°C]

-40...85

Max. relative air humidity [%]

80 (31°C), linear abnehmend bis 50 % (40 °C)

Protection housing / terminals

IP 50 / IP 20

DR2503 - MONITOR - eclass: 27279213 / 27-27-92-13

Tests / approvals

EMC	EN 61010	2011
	EMC 89/336/EEC	
	EN 61000-6-2	2005
	EN 61000-6-4	2007

Mechanical data

Housing materials	plastics
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Displays / operating elements

Input pulses	LED	yellow
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Output status indication	LED	green (lights when the relay is energised / the transistor is closed)
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Display	OLED display 128 x 64 dots luminous	
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Electrical connection

Connection	dual-chamber terminals 2 x 2.5 mm ² (2 x AWG 14)	
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Wiring

- 1: DC Supply voltage (L-)
- 2: DC Supply voltage (L+)
- 3: supply transistor outputs (L+)
- 4: sensor signal 1 pnp
- 5: DC Sensor supply (L+)
- 6: DC Sensor supply (L-)
- 7: AC Supply voltage (L)
- 8: AC Supply voltage (N)
- 9: n.c.
- 10: sensor signal 1 npn
- 11: sensor signal 2 pnp
- 12: sensor signal 2 npn
- 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: n.c.
- 23: n.c.
- 24: transistor output 2 pnp

Remarks

Remarks	overvoltage category II; degree of soiling 2
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Pack quantity	[piece]	1
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