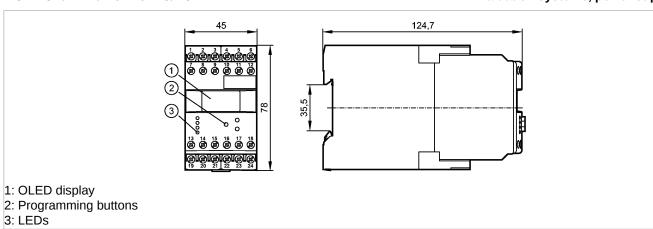
## ecomatzoo

### **DD2505**

MONITOR/FR-2 /110-240VAC/DC

#### **Evaluation systems, power supplies**







LISTED					
<b>Product characteristics</b>					
MONITOR					
FR-2					
Housing for DIN rail mounting					
2 relay outputs					
2 transistor outputs					
programmable					
Test function without external frequency					
Key function					
Application					
Application		double pulse evaluation system with µprocessor for frequency, rotational speed, speed and machine cycles			
Switching function		1 switch point each for monitoring overspeed/underspeed and acceptable range			
Electrical data					
Nominal voltage	[V]	110240 AC (5060 Hz) / 27 DC (typ. 24 DC)			
Voltage tolerance	[%]	-20+10			
Power consumption	[VA]	5 (3 W)			
Sensor supply	[V]	19.627.7 DC SELV, ≤ 150 mA			
Inputs					
Digital		2			
Inputs		pnp/npn; NAMUR (24 V) auxiliary supply: typ. 24 V DC / 150 mA; short-circuit protected threshold pnp: > 12 V on; < 5 V off threshold npn: > 15 V off; < 8 V on input frequency (max): 5 kHz (corresponds to min. pulse length / space 0.1 ms)			
Outputs					
Relay					
Relay		2			
Contact rating		6 A (250 V AC); B300, R300			
Transistor					
Digital		2			
Transistor outputs		pnp; external supply switching voltage/current: 24 V DC / max. 150 mA; short-circuit protected			
Measuring / setting rang	je				

1...60000 (0.1...1000 Hz)

[pulses/min.]

Setting range

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#### **Evaluation systems, power supplies**

Accuracy / deviations					
Measuring error [% of the final)	valuel	<1			
Environment	value	\ <u>-</u>			
Ambient temperature	[°C]	-4060			
Storage temperature	[°C]	-4085			
Max. relative air humidity	[%]	80 (31°C), linearly decreasing to 50 % (40 °C)			
Protection housing / terminals		IP 50 / IP 20			
Tests / approvals					
EMC		EN 61010 2011			
		EMC 89/336/EEC			
		EN 61000-6-2 2005 EN 61000-6-4 2007			
Mechanical data		2007			
Housing materials		plastics			
Weight	[kg]	0.347			
Displays / operating element		0.347			
Input pulses	LED	yellow			
Output status indication	LED	green (lights when the relay is energised / the transistor is closed)			
Display		OLED display 128 x 64 dots luminous			
Electrical connection		OLLD display 120 x 04 dots lullillous			
Connection		dual-chamber terminals 2 x 2.5 mm² (2 x AWG 14)			
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 pnp 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			
Pack quantity	[piece]	1			