

Evaluation systems, power supplies

**DD2001**

MONITOR  
FR-1

Housing for DIN rail mounting

2 relay outputs  
2 transistor outputs  
Analogue output

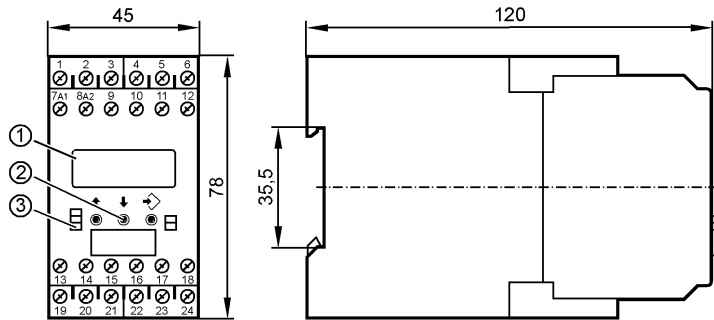
0...20 mA

4...20 mA

programmable

Test function without external  
frequency

Key function



- 1: LCD display; 7/14-segment
- 2: Programming button
- 3: LED



Made in Germany

<b>Application</b>	
<b>Setting range[pulses/min.]</b>	
Nominal voltage	[V]
Voltage tolerance	[%]
Contact rating	
Power consumption	[VA]
Analogue output	
Inputs	
Transistor outputs	
Measuring error [% of the final value]	
Switching function	
Max. relative air humidity	[%]
Ambient temperature	[°C]
Storage temperature	[°C]
Protection housing / terminals	
EMC	
Housing materials	
Function display	
Switching status	LED
Input pulses	LED
Function	LED
Connection	
Weight	[kg]
Remarks	

<b>single pulse evaluation system with µprocessor for frequency; rotational speed; speed and machine cycles</b>	
<b>1...60000 (0.1...1000 Hz)</b>	
230 AC (50...60 Hz) / 24 DC	
± 10	
8 A (1250 VA / 250 V AC)	
5 (3 W)	
0/4...20 mA (500 Ω)	
limitation: 20.5 mA; accuracy: 1 % (of the final value)	
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): 5 kHz (corresponds to min. pulse length / space 0.1 ms)	
pnp; external supply	
switching voltage/current: 24 V DC / max. 15 mA; short-circuit protected	
< 1	
2 switch points for monitoring overspeed/underspeed and acceptable range	
75 (35°C)	
-20...60	
-25...80	
IP 50 / IP 20	
EN 61010: 1993 + A2: 1995	
EMC 89/336/EEC	
EN 50081-1	
EN 61000-6-2	
plastics	
green (lights when the relay is energised / the transistor is closed)	
yellow	
LCD display; 7/14-segment	
dual-chamber terminals 2 x 2.5 mm <sup>2</sup>	
0.349	
overvoltage category II; degree of soiling 2	

**DD2001****Wiring**

- 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/DC Supply voltage
- 8: AC/DC Supply voltage
- 9: n.c.
- 10: sensor signal npn
- 11: n.c.
- 12: n.c.
- 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