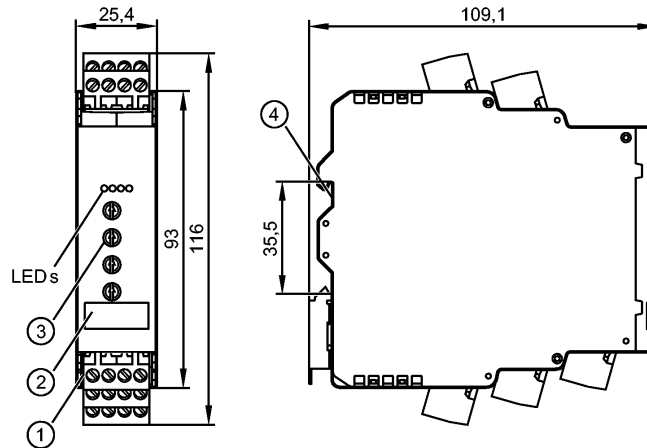


DD0203

D200/FR1A 110-240VAC 24VDC

Evaluation systems, power supplies



- 1: plug-in screw terminals
- 2: label
- 3: potentiometer
- 4: Mounting on DIN rail



Made in Germany

Product characteristics

Speed monitor	
D200	
Housing for DIN rail mounting	
Setting range 0.1...10 Hz / 10...1000 Hz	

Application

Application	evaluation of pulse sequences with regard to overspeed and underspeed; rotational speed monitoring
Switching function	F1-F4, with potentiometer
Switching output	relay (1 changeover contact); transistor output (pnp switching; external supply)

Electrical data

Nominal voltage [V]	110...240 AC / 27 (24) DC
Nominal frequency [Hz]	50...60
Voltage tolerance [%]	-20/+10 AC / -20/+10 DC
Power consumption DC [W]	4
Power consumption AC [W]	6
Sensor supply [V]	18.5...30 DC SELV, ≤ 100 mA

Inputs

Digital signal input	1
Input frequency [Hz]	PNP (type 2 acc. to IEC 61131-2)

Outputs

Relay	
Relay	1
Contact rating	4 A (240 V AC, 24 V DC); resistive load
Electrically separated	yes
Insulation rating	reinforced (to EN 61010)
Overtoltage category	II
degree of soiling	2 (≤ 240 V AC)
Transistor	

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Digital	1
Switching voltage [V]	10...30 DC SELV
Current rating [mA]	≤ 100
Short-circuit proof	yes

Measuring / setting range

Setting range [Hz]	0.1...10 / 10...1000
Adjustment of the switch point	2 ranges preselectable, fine adjustment with potentiometer
Hysteresis [% of Sp]	1...100
Start-up delay [s]	0.1...15

Environment

Ambient temperature [°C]	-25...60
Storage temperature [°C]	-25...70
Max. relative air humidity [%]	80 % (31 °C), linearly decreasing to 50 % (40 °C), non condensing
Height above sea level [m]	≤ 2000
Protection housing / terminals	IP 20 / IP 20

Tests / approvals

Approval	UL: N001
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Safety classification

MTTF [a]	212
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Mechanical data

Housing materials	plastics: PC GF20
Installation	rail TH35 (to EN 60715)
Weight [kg]	0.238

Displays / operating elements

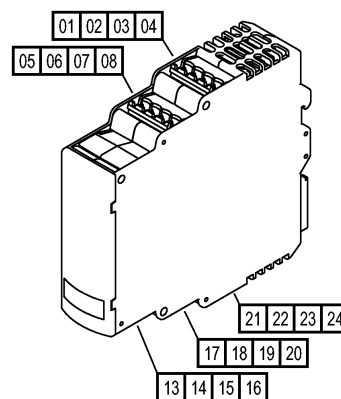
Display	<p>Power supply 1 green Input pulses 1 yellow Output 1 green (lights when the output relay is energised) Enable signal 1 yellow</p>
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Electrical connection

Connection	Unit: 4-pole terminal strips, pin separation 5.0 mm; connector: 4 poles with screw connection; 9HCG4S
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Wiring

- 01: DC Supply voltage (+)
- 02: DC Supply voltage (+)
- 03: DC Supply voltage (-)
- 04: DC Supply voltage (-)
- 05: DC Sensor supply (+)
- 06: sensor signal pnp
- 07: DC Sensor supply (-)
- 08: Enable signal pnp
- 13: supply transistor output (+)
- 14: transistor output pnp
- 15: common External supply (-)
- 16: n.c.
- 17: Relay (normally open)
- 18: Relay (common)
- 19: Relay (normally closed)
- 20: n.c.
- 21: AC Supply voltage (L)
- 22: AC Supply voltage (L)
- 23: AC Supply voltage (N)
- 24: AC Supply voltage (N)



n.c. = not connected



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Accessories

Accessories (included)	Order no. E40173; connector: 4 poles with screw connection; (pack of 5)
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Remarks

Pack quantity	[piece]	1
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