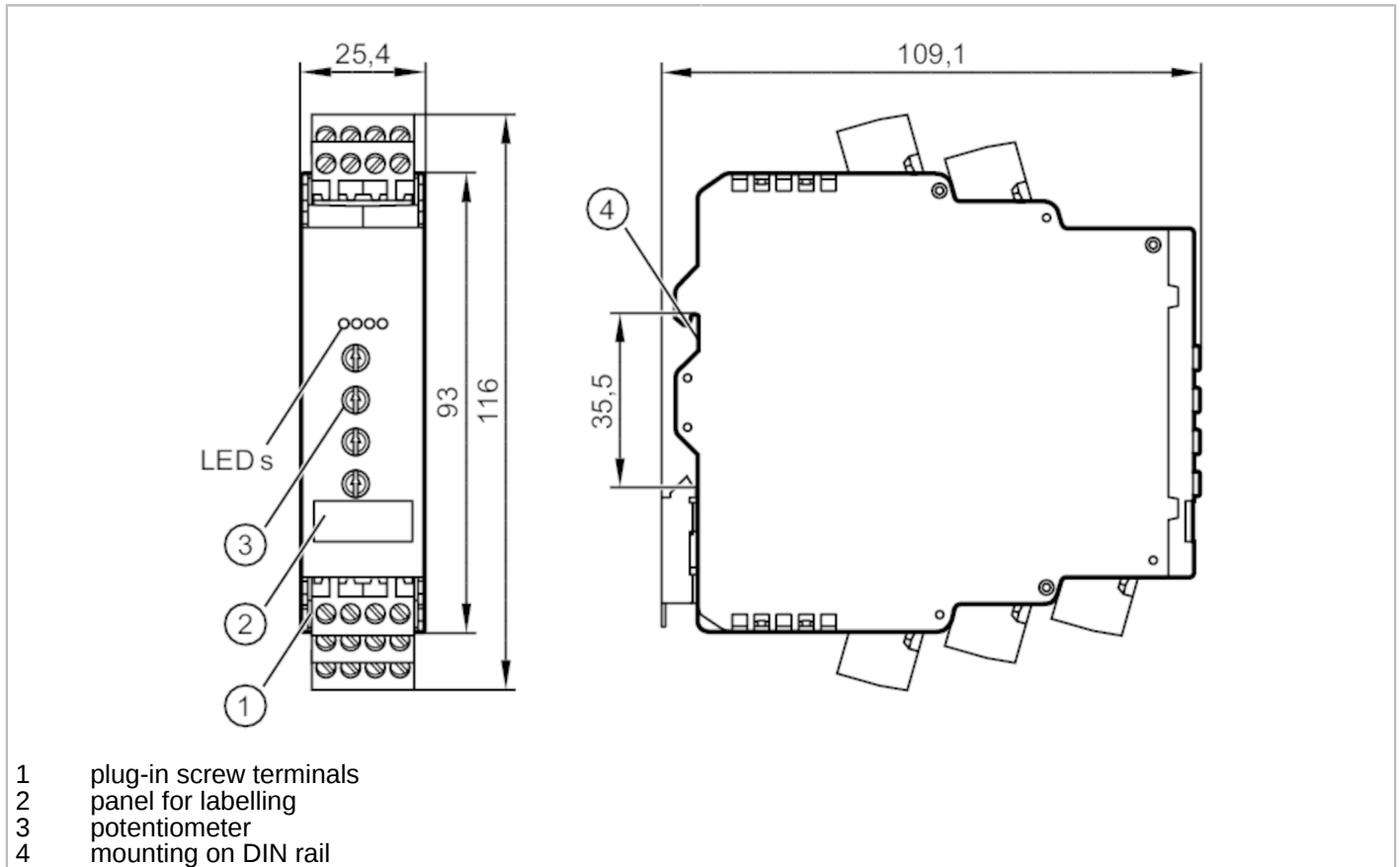


DD0203



Evaluation unit for speed monitoring

D200/FR1A 110-240VAC 24VDC



Application

Application	universal evaluation of pulse sequences with regard to overspeed and underspeed; rotational speed monitoring
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Electrical data

Operating voltage tolerance 2	[%]	> 20
Nominal voltage AC	[V]	110...240
Nominal voltage DC	[V]	27
Nominal voltage tolerance	[%]	> 20
Nominal voltage tolerance 2	[%]	20...10
Nominal frequency AC	[Hz]	50...60
Insulation rating	[V]	9
Max. power consumption AC	[W]	6
Max. power consumption DC	[W]	4
Auxiliary energy for sensors DC	[V]	18.5...30; (SELV, ≤ 100 mA)

Outputs

Number of digital outputs	1
Number of relay outputs	1
Contact rating	4 A (240 V AC, 24 V DC); (ohmic resistance)
Short-circuit proof	yes

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Detection zone		
Sensing range adjustable	no	
Measuring/setting range		
Setting range Hz [Hz]	0.1...1000	
Accuracy / deviations		
Hysteresis [% of Sr]	1...100	
Response times		
Start-up delay [s]	0.1...15	
Software / programming		
Adjustment of the switch point	potentiometer	
Operating conditions		
Ambient temperature [°C]	-25...60	
Storage temperature [°C]	-25...70	
Max. relative air humidity [%]	80; (40 °C 50 %; non condensing)	
Max. height above sea level [m]	2000	
Protection	IP 20	
Protection rating terminals	IP 20	
Degree of soiling	2; (\leq 240 V AC)	
Tests / approvals		
Approval	UL: N001	
MTTF [years]	212	
Mechanical data		
Weight [g]	238.1	
Housing	housing for DIN rail mounting	
Type of mounting	rail; (TH35 EN 60715)	
Dimensions [mm]	93 x 25.4 x 109.1	
Materials	plastics: PC-GF20	
Displays / operating elements		
Display	voltage supply	1, green
	input signal	1, yellow
	Output	1, green
	enable signal	1, yellow
Accessories		
Accessories (supplied)	connector: 5 x 4-wire, with screw connection, E40173	

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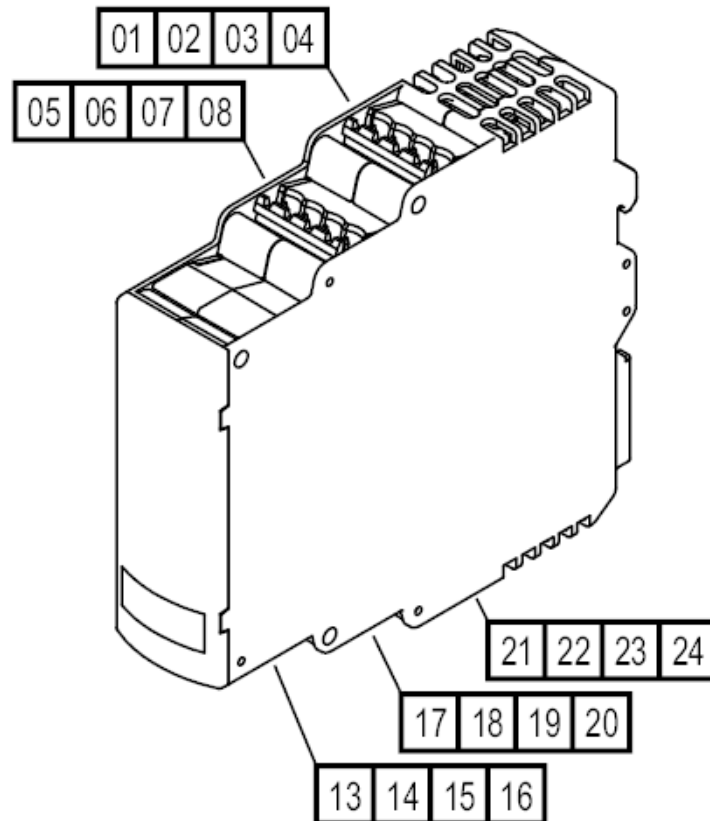
Evaluation unit for speed monitoring

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Electrical connection

pin headers: 4 x ; Spacing: 5.0 mm

Connection



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Evaluation unit for speed monitoring

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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 reference point external supply (-)
16	not used
17	relay normally open
18	relay common
19	relay normally closed
20	not used
21	AC supply voltage (L)
22	AC supply voltage (L)
23	AC supply voltage (N)
24	AC supply voltage (N)