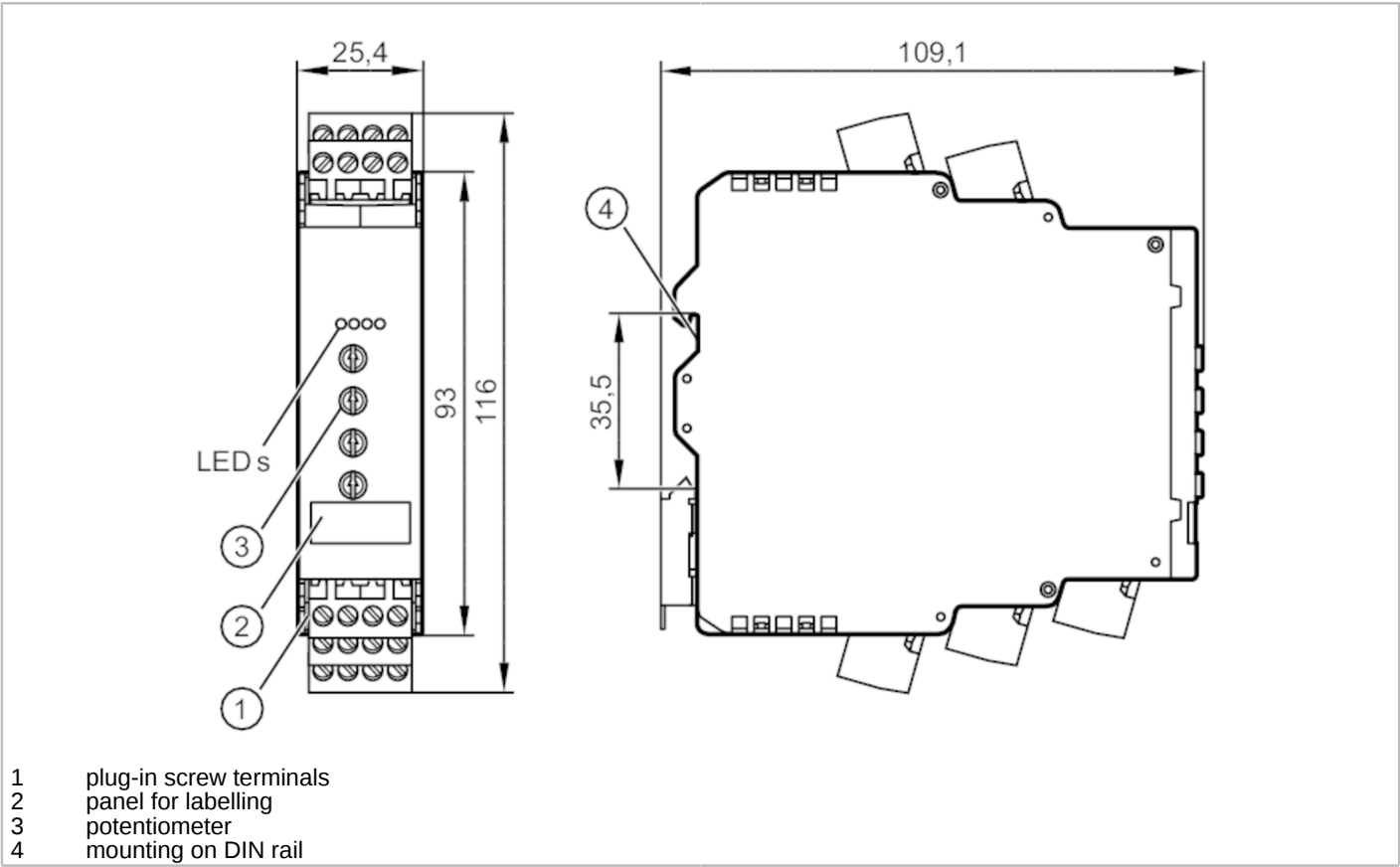




Evaluation unit for speed monitoring

D200/FR1B 110-240VAC 24VDC



Product characteristics		
Housing		housing for DIN rail mounting
Dimensions	[mm]	93 x 25.4 x 109.1
Application		
Application		universal evaluation of pulse sequences with regard to overspeed and underspeed; rotational speed monitoring
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)
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1; Number of relay outputs: 1



Evaluation unit for speed monitoring

D200/FR1B 110-240VAC 24VDC

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
Measuring/setting range		
Setting range Hz	[Hz]	0.2...2000
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
Pollution degree		2; ($\leq$ 240 V AC)
Tests / approvals		
Approval		UL: N001
MTTF	[years]	212
Mechanical data		
Weight	[g]	241.5
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	power supply	1 x LED, green
	input signal	1 x LED, yellow
	Output	1 x LED, green
	enable signal	1 x LED, yellow
Accessories		
Items supplied		connector: 5 x 4-pole, with screw connection, E40173

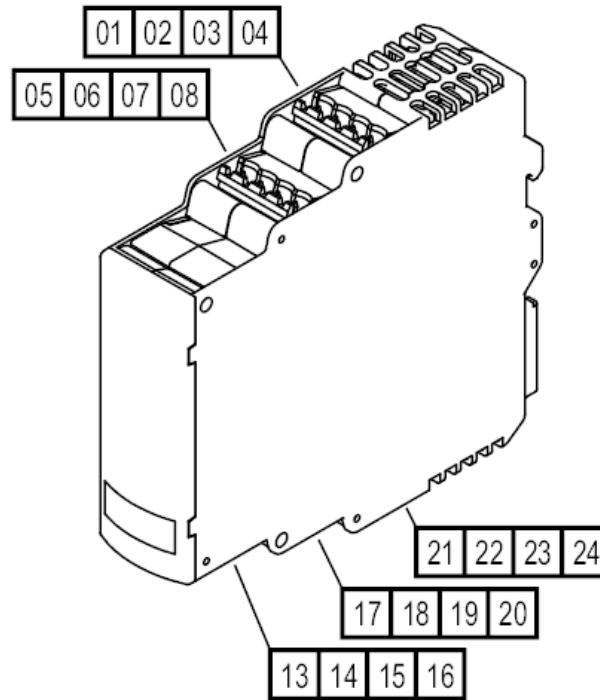
Evaluation unit for speed monitoring

D200/FR1B 110-240VAC 24VDC

Electrical connection

pin headers: 4 x ; Spacing: 5.0 mm

Connection



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	current 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)