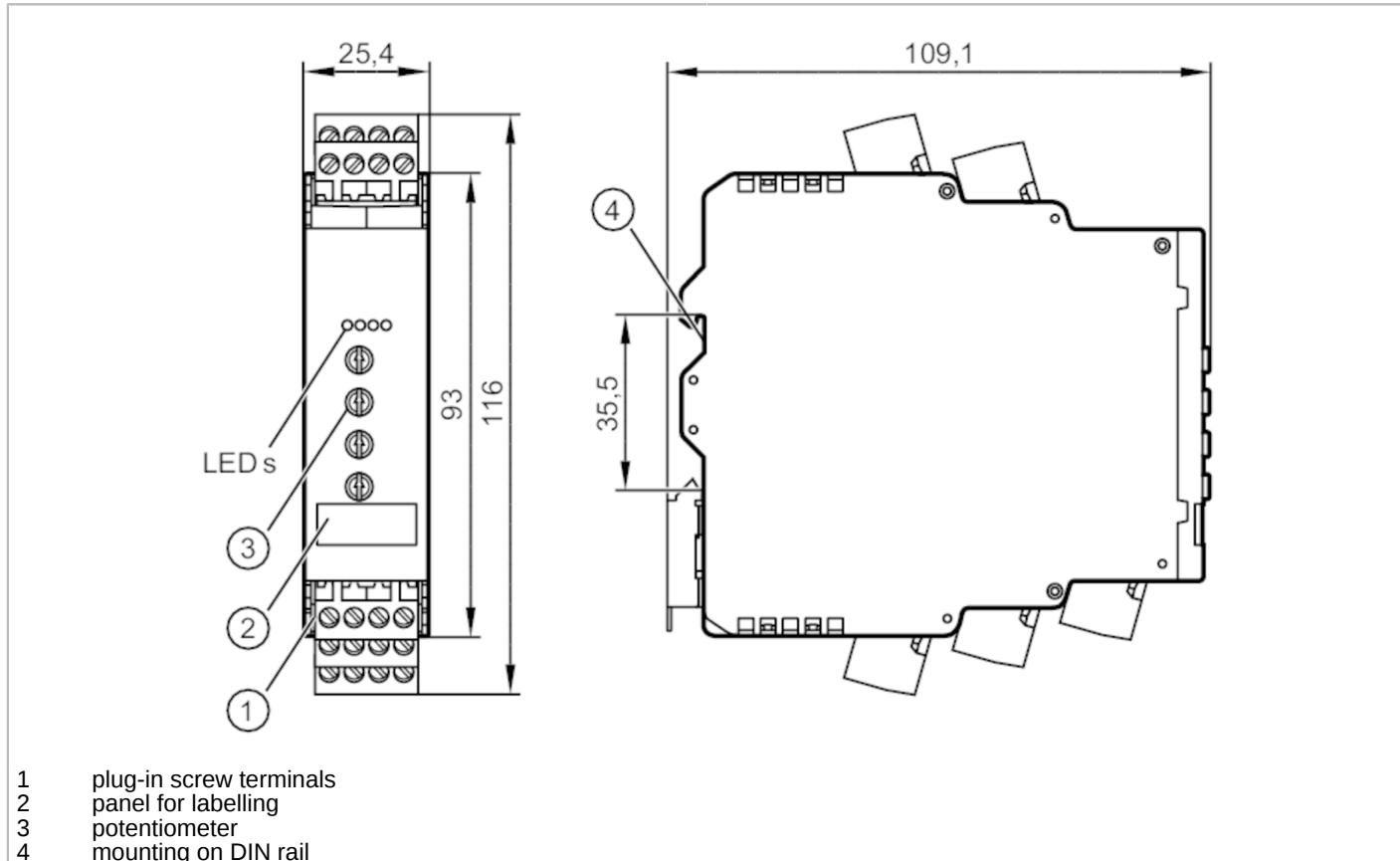


## Evaluation unit for speed monitoring

D200/FR1A 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
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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)

## Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of relay outputs: 1
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**Evaluation unit for speed monitoring**

D200/FR1A 110-240VAC 24VDC

<b>Outputs</b>		
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
<b>Measuring/setting range</b>		
Setting range Hz	[Hz]	0.1...1000
<b>Accuracy / deviations</b>		
Hysteresis	[% of Sr]	1...100
<b>Response times</b>		
Start-up delay	[s]	0.1...15
<b>Software / programming</b>		
Adjustment of the switch point		potentiometer
<b>Operating conditions</b>		
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; (≤ 240 V AC)
<b>Tests / approvals</b>		
Approval		UL: N001
MTTF	[years]	212
<b>Mechanical data</b>		
Weight	[g]	242
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
<b>Displays / operating elements</b>		
Display	power supply	1 x LED, green
	input signal	1 x LED, yellow
	Output	1 x LED, green
	enable signal	1 x LED, yellow
<b>Accessories</b>		
Items supplied	connector: 5 x 4-pole, with screw connection, E40173	

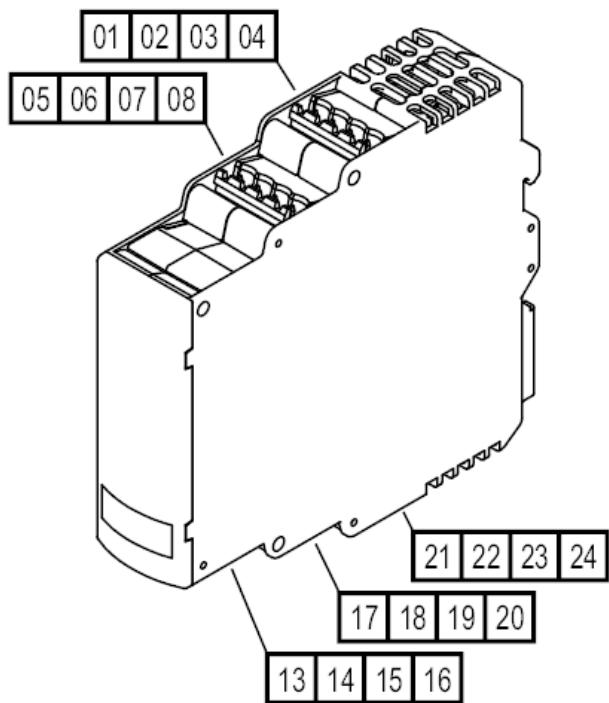
## Evaluation unit for speed monitoring

D200/FR1A 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)