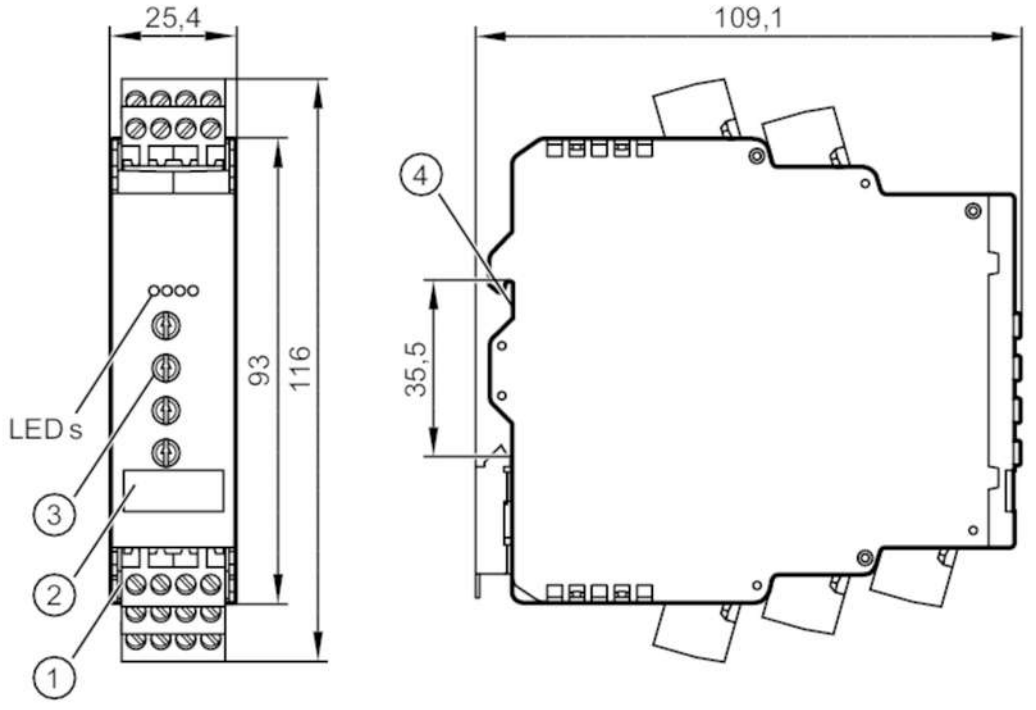
DD0296

Evaluation unit for speed monitoring

D200/FR1B 110-240VAC 24VDC



1 plug-in screw terminals
2 panel for labelling
3 potentiometer
4 mounting on DIN rail

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

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Outputs			
Number of digital outputs			1
Number of relay outputs			1
Contact rating			4 A (240 V AC); 6 A (30 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; (≤ 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			mounting on DIN 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

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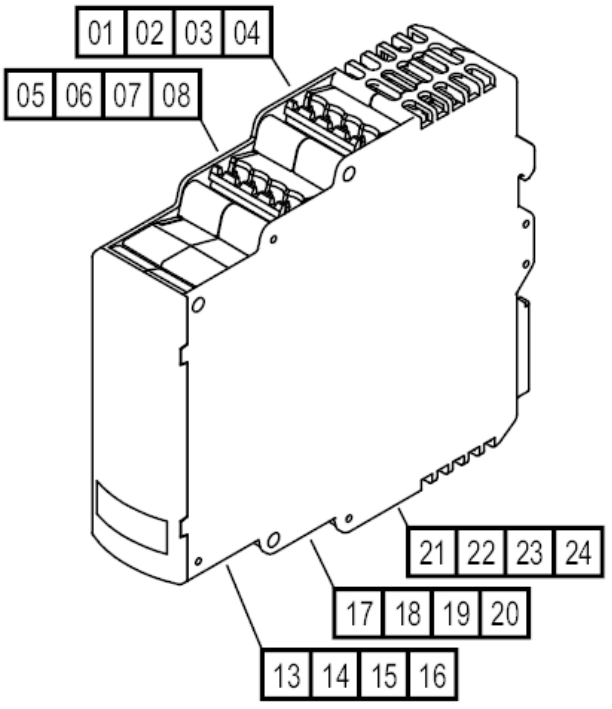
Electrical connection

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)