

Monitoring Relays Tachometer Type SM 155

CARLO GAVAZZI



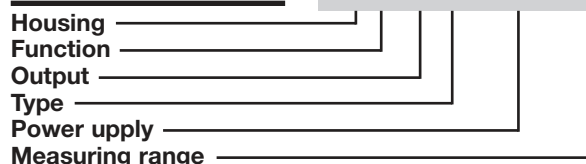
- Tachometer relay
- Measuring ranges:
 - 30 - 300 R.P.M.
 - 200 - 2000 R.P.M.
 - 1000 - 10000 R.P.M.
- Knob-adjustable set level
- Controlled by Namur/DIN 19234 sensor or metallic contact
- Connection for moving-coil instrument
- 10 A SPDT output relay
- LED indication for relay ON
- AC or DC power supply

Product Description

SM155 monitors the actual RPMs of a motor by a Namur/DIN 19234 sensor or a metallic contact. Knob adjustable set level on relative scale.

Ordering key

SM 155 230 10K



Type Selection

Plug	Output	Measuring range	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 24 VDC
Circular 11 pins	SPDT	30 - 300 R.P.M.	SM 155 024 300	SM 155 115 300	SM 155 230 300	SM 155 724 300
	SPDT	20 - 2000 R.P.M.	SM 155 024 2K	SM 155 115 2K	SM 155 230 2K	SM 155 724 2K
	SPDT	1000 - 10000 R.P.M.	SM 155 024 10K	SM 155 115 10K	SM 155 230 10K	SM 155 724 10K

Input Specifications

Input	
Through terminals:	
Metallic contact:	5, 6
Namur sensor:	6, 7
Measuring ranges	
Types:	
300:	30 to 300 R.P.M.
2K:	200 to 2000 R.P.M.
10K:	1000 to 10000 R.P.M.
Inversion	Interconnecting pins 8, 11
Short circuit current	
Pins 5, 6	5 mA
Pins 6, 7	10 mA
Connection cable	Can be extended as desired
Max resistance	100 Ω
Hysteresis	approx 3% of set value

Output Specifications

Output	SPDT relay
Instrument connection	Connection for moving-coil instrument
Through pins	8, 9, pin 9 positive
Full scale deflection	1 mA
Internal resistance	110 Ω
Rated insulation voltage	250 VAC
Contact ratings (AgCdO)	μ
Resistive loads	AC 1 10A, 250 VAC
DC 1	1 A, 250 VDC
Small inductive loads	AC 11 2.5 A, 230 VAC
DC 11	5 A, 24 VDC
Mechanical life	≥ 30 x 10 ⁶ operations
Electrical life	≥ 2.5 x 10 ⁵ operations (at max load)
Operating frequency	≤ 7200 operations/h
Dielectric strength	
Dielectric voltage	≥ 2 kVAC (rms)

Operation Diagram

