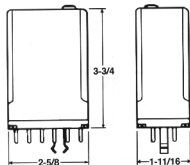
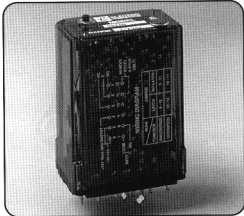


DIMENSIONS - ALL MODELS



55149 TO 55153 SERIES OVERSPEED/ UNDERSPEED SWITCHES FOR SINE-WAVE & NON SINE-WAVE INPUTS



Electro's 551XX Series Speed Switches are user configured to activate the output relay upon detection of an overspeed or underspeed condition of a rotating device, and function in one of four operating modes per the jumper selection chart below. These switches are designed to accept sinusoidal, square or saw tooth waveform inputs, either symmetrical around zero volts, or positive going types. Power required is 105 to 125 VAC 60 Hz. The 551XX series speed switches provide jumper selectable latch/non-latch modes of operation.

MOUNTING: Modules plug into 12 pin socket #58390 (not included), suitable for panel mounting. All electrical connections are via screw terminals.

OPER. TEMP. RANGE: -30 to 160F (-34 to 70C)

POWER REQUIREMENTS: 105 to 125 VAC, 60 HZ only, 3 Watts.

INPUT SIGNAL: 1.5 V Peak min. pulse train, sine, square or sawtooth waveform, 10% duty cycle min. Input impedance 1K ohm. Low signal level must be less than .6 VDC.

OUTPUT: SPDT Relay 10 Amps resistive @ 28 VDC or 115 VAC. Operate 10 mS, Dropout 25 mS.

TRIP POINT REPEATABILITY: Within 1% of original set point.

ERROR DUE TO TEMP. CHANGE: .02%/°F (.03%/°C) of full scale frequency (typical).

RESPONSE TIME: 25 mS plus time of one cycle of the trip frequency max.

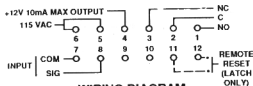
POWER OUTPUT: 12V DC @ 10 mA.

TRIP POINT ADJUSTMENT RANGE

Model Number	Adjustment Range In Hertz
55149	0.1 to 1.5
55150	1.0 to 15.0
55151	10 to 150
55152	100 to 1,500
55153	1,000 to 15,000

RELAY STATES FOR ALL MODELS

Operating Mode	Input Signal Level		Signal Loss
	Below Set Point	Above Set Point	
Over-Speed Latch	Energized	De-Energized Manual Reset Required	Energized
Over -Speed No Latch	Energized	De-Energized Reset Automatic	Energized
Under-Speed Latch	De-Energized Manual Reset Required	Energized	De-Energized
Under-Speed No Latch	De-Energized Reset Automatic	Energized	De-Energized



WIRING DIAGRAM

MODE	JUMPER	
	LATCH	NO LATCH
UNDERSPEED	9 - 12	9 - 11
OVERSPEED	10 - 12	10 - 11



ISO
9001

