ESSE Series

Single or dual switches to monitor and control critical speed functions. Applications include crank disconnect or overspeed protection on diesel engines, transmission shift inhibiting, and PTO protection.

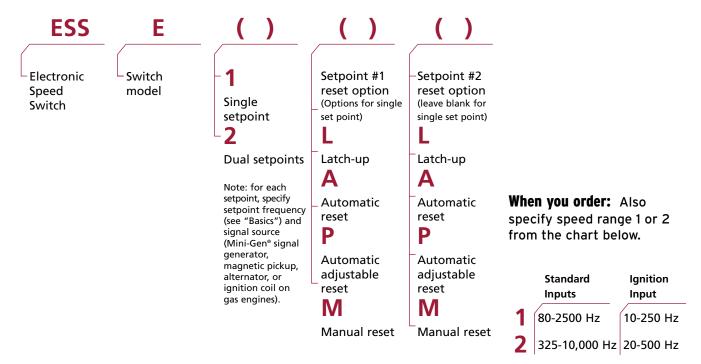


Features:

- Standard or reverse relay operation
- Field adjustable set and reset switch points
- High noise immunity
- Latch, automatic, manual or adjustable resets (automatic or latch are field selectable)
- · Reverse polarity protection
- Mini-Gen® signal generator, magnetic pickup, alternator or ignition coil for signal input

- Test circuit (trips at 67% ± 10% of setpoint)
- Potted for in-field reliability, exposed applications, and hostile environments
- Field selectable setpoint range

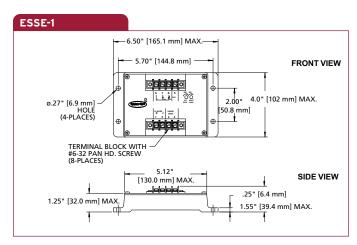
Order Information: Complete the following model descriptions to build your Order No.

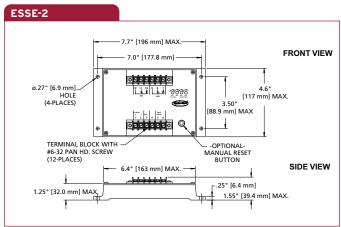


E.E.C. Directive Compliance: All parts supplied by Woodward are classified as components, and therefore are not "CE" marked. Please contact factory direct for details on specific product compliance with 89/336/EEC and 89/392/EEC directives.

60 phone: 847-967-7730

ESSE Series





Electrical Specifications:

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Power Input		8-40 VDC (40-80 VDC optional on ESSE-2)	
Power Supply Transient Protection		900 volts for 100 microseconds (exponential decay)	
Reverse Polarity Protection		1000 VDC	
Maximum Current for ESSE-1 Operating: Standby:		12 Volt 125 mA 30 mA	<u>24 Volt</u> 140 mA 45 mA
	for ESSE-2 Operating: Standby:	<u>12 Volt</u> 200 mA 30 mA	24 Volt 220 mA 45 mA
Signal Input	Minimum: Maximum: Impedance:	1.2 VRMS 130 VRMS 33K ohms	(nominal)
Relay Contact Ratings Resistive Load: Inductive Load:		0.1 to 10 A 28 VDC 0.1 to 8 A 28 VDC	
Overspeed Response Time		100 milliseconds (typical)	
Setpoint Reset		Automatic (80% to 90% of setpoint) Automatic Adjustable (25% to 95% of setpoint) Electrical Latch Manual Reset	
Setpoint Stability		For an input voltage range of 9V to 40V and for a temperature range of +14°F to +185°F (-10°C to +85°C), the ESSE Series shall typically be less than 1% or 8 Hz, whichever is greater. The unit performs to -40°F (-40°C).	

Mechanical Specifications:

Operating Temperature		-40°F to +185°F (-40°C to +85°C)	
Vibration		4 G's from 20 to 500 Hz	
Shock		4 foot drop test	
Case		Cast aluminum 1/4" wall thickness	
		Potted electronics for environmental protection	
		Nickel-plated terminals – humidity and salt spray resistant	
Weight	of ESSE-1 of ESSE-2	1.4 lbs (.5 kg) 1.9 lbs (0.9 kg)	

Specifications are for reference only.