

RPM relay type RK-5

The unit **RK-5** is designed for speed control and overspeed shutdown of diesel engines.

It is the frequency of the incoming signal that is measured. The speed sensor can either be tachogenerator or magnetic pickup, mounted at the timing gear or at the flywheel.

The relay is delivered in three versions, depending on the incoming frequency:

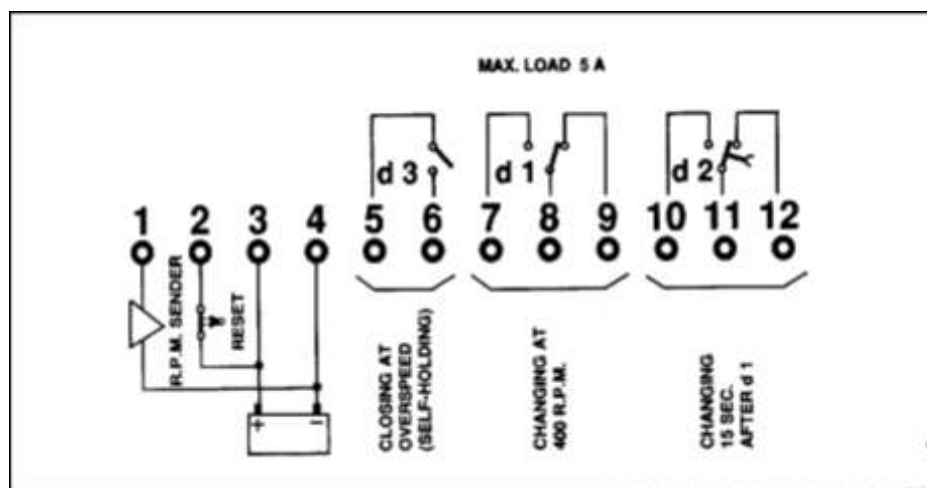


RK-5-1	0-100Hz	Tachogenerator
RK-5-2	0-2000Hz	Pickup at timing gear
RK-5-3	0-8000Hz	Pickup at flywheel

Operation

RK-5 has three voltage free relay outputs:

- Relay D1. Changeover contact activated at 400RPM. Adjustable 300-600RPM. Green LED is lit at setpoint.
- Relay D2. Changeover contact, delayed 15 secs. after contact D1.
- Relay D3. Normally open contact, closing and selfholding at overspeed. Must be reset with reset button.



Overspeed adjustment

1. Run the engine at nominal speed.
2. Press and hold the push-button *PUSH TO DECR. SETPOINT 15%*. If the engine stops, adjust the potentiometer *OVERSPEED SETPOINT ADJ.* 3 turns clockwise and reset the relay.
3. Repeat step 2 until engine does not stop when pressing *PUSH TO DECR. SETPOINT 15%*.
4. Adjust potentiometer slowly counter clockwise (with push-button pressed) until the engine stops.
5. Release push-button. The setpoint is now 15% above nominal speed.

Technical Specification

Supply voltage	12VDC or 24VDC
Min. signal level sender	2,5VAC RMS
Operating temperature	-10 - +50°C
Contact rating	250VAC 5A
Dimensions (WxHxD)	110x50x105 mm