



HOKKIM
Giving You Control

Control & Protection Relays

Model : TFQ-M

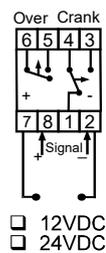
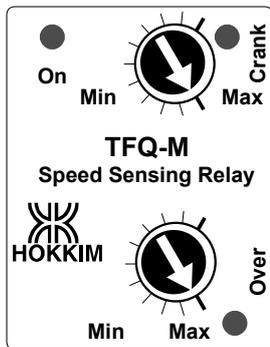
Description : Gen-set Speed Sensing Relay

Utilization:

The TFQ-M provides 2 user adjustable trip levels with LED relay state indication. Trip functions provided are:

- 1 - 3 - 4 : Dis-engages crank starter.
- 5 - 6 : Alarms or trips on over speed.

A pulse sensing magnetic pick-up at the engine flywheel, produces a high frequency pulse train directly proportional the speed of rotation. The frequency of these pulses is converted to an analogue voltage to provide signal to the trip circuitry. When ordering, the range of speed settings in cycles per second (Hz) for crank cut-off and over-speed must be specified. As the engine starts and the frequency rises, contacts 1-3 close and 1-4 open to cut-off the crank starter. On over-speed, contacts 5-6 close to sound alarm or trip engine.



Technical Data

Supply Voltage : 24VDC 12VDC

Approx. Crank Range: 200Hz to 4KHz

Approx. Over Range : 1KHz to 8KHz

Consumption : 1VA

Indication : Power – Green LED

Crank Cut – Amber LED

Over Speed – Red LED

Output Contacts : 5A 240V 50Hz AC1

Normal 5-6 Open

1-3 Open

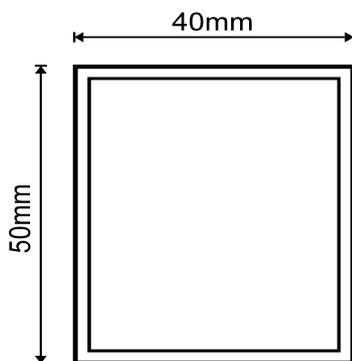
1-4 Close

Over Speed 5-6 Close

Crank Cut

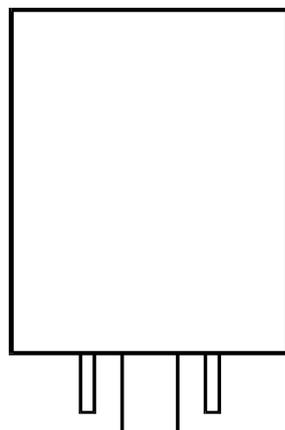
1-3 Close

1-4 Open

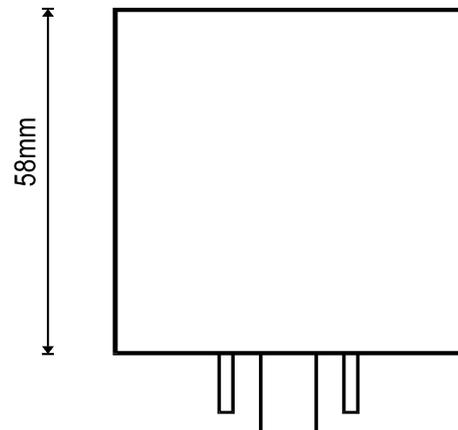


Dimensions

Top View



Front View



Side View