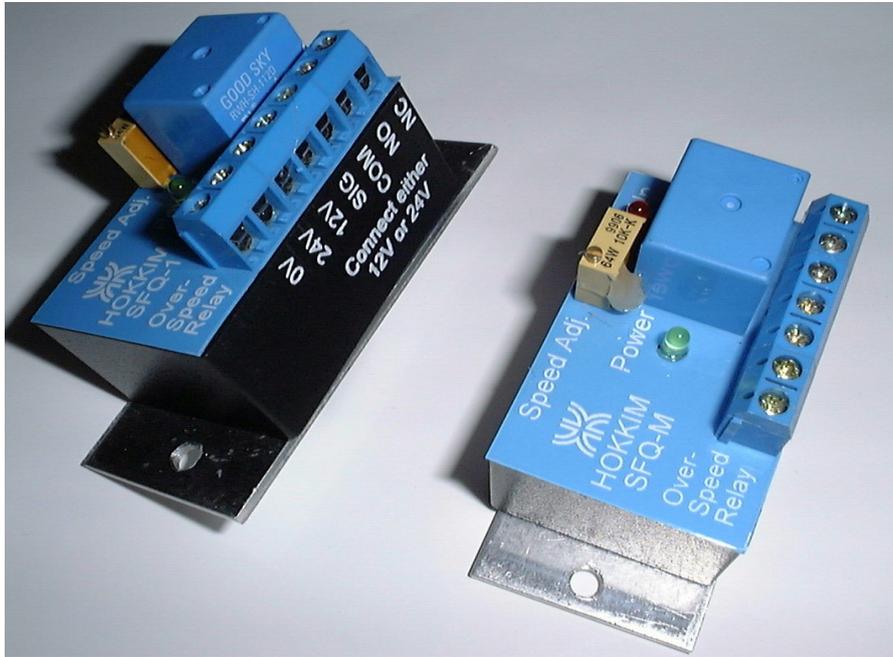




**HOKKIM**  
Giving You Control

# Control & Protection Relays

Model : SFQ-1 & SFQ-M  
Description : Gen-set Speed Sensing Relay



## Utilization:

The SFQ-1 and the SFQ-M are designed to protect gen-set against over speed. There is a trimmer to adjust the trip level with LED relay state indication. For normal operation, terminals COM-NO are opened and terminals COM-NC are closed. Upon over speed, the relay energized and COM-NO are closed and COM-NC opened.

When ordering, make sure you order the correct model corresponding to your signal sensor. Model SFQ-1 has a frequency range of approximately 100-800 Hz and is suitable for frequency signal tapped from the charger alternator W phase. Model SFQ-M has a frequency range of approximately 1-8 kHz and is suitable for frequency signal tapped from a magnetic pick-up unit (MPU) mounted at the flywheel.

The units can accept supply of 12 VDC or 24 VDC. Note, the trimmer is multi-turns. It takes 10 complete turns to move from minimum to maximum. For different frequency range, special request can be made.

## Technical Data

Supply Voltage	12/24VDC
Approx. SFQ-1 Range	100Hz to 850Hz
Approx. SFQ-M Range	1KHz to 8KHz
Consumption	1VA
ON/TRIP Hysteresis	2% of rated
ON Response Time	100 msec.
OFF Response Time	100 msec.
Indication	Power - Green LED Overs Speed - Red LED
Dielectric Strength Between:	
Signal & Supply Circuit	1 KV
Output & Supply Circuit	2 KV
Output Contacts	Rated 5A @ 240VAC 50Hz AC1 Normal       COM-NO Open COM-NC Close Over speed   COM-NO Close COM-NC Open
Dimensions	The SFQ-M/1 comes in a 72 x 32 x 40mm high compact casing with durable aluminium base for screw mounting.