



HOKKIM
Giving You Control

Control & Protection Relays

Model : TFR-AN

Description : Floatless Relay - Single Contact High and Low Alarm

Utilization:

The TFR-AN monitors the levels of conducting liquids by using 3 probes as shown in figure.

The operation is as follows:

- With the liquid level between the LO (4) and HI (3) probes, the GREEN LED (Normal) is lighted and the relay is not energized.
- When the liquid level rises to probe HI (3) the GREEN LED goes off, the RED (Alarm) LED is lighted and the relay energizes.
- Similarly, when the liquid level falls to probe LO (4) the GREEN LED goes off, the RED (Alarm) LED is lighted and the relay energizes.
- Anytime the level rises above LO or falls below HI, the RED LED goes off, the GREEN LED lights and the relay releases.

The LEDs indicate the condition of the relay.

Connect siren to 8-6 to sound alarm.

Technical Data

Supply Voltage	q240VAC q115VAC q24VDC q12VDC q28VAC
Frequency	50~60Hz for AC Supply
Consumption	1VA
ON/TRIP Hysteresis	2% of rated
ON Response Time	100 msec.
OFF Response Time	100 msec.
Sensitivity of Probes	>50kOhms
Voltage between Probes	31VDC
Current through Probes	250uA
Indication	GREEN LED (Relay OFF) RED LED (Relay ON)
Dielectric Strength Between:	1 KV
Probes & Supply Circuit	2 KV
Output & Supply Circuit	
Output Contacts	Rated 5A @ 240VAC 50Hz Relay ON 8-6 Close 8-5 Open Relay OFF 8-6 Open 8-5 Close

The above specifications and instructions assumes that the ALARM LED is RED and the NORMAL LED is GREEN.

Colours may differ for different production batches.

