HOKKIM Giving You Control & Protection Relays

Model : TFR-N Description : Floatless Relay - Single Tank Control

Utilization:

The TFR-N monitors the levels of conducting liquids by using 3 probes as shown in figure. The operation is as follows:

- On supply, the AMBER LED (Low) is lighted and remains lighted when the liquid level rises to contact with CO (1) & LO (4).
- When the liquid level rises to probe HI (3) the GREEN LED goes off, the RED (High) LED is lighted and the relay energizes.
- When the level drops below HI (3) the RED LED remains on and the relay remains latched.
- When the level drops below LO (4), the RED LED goes off, the AMBER LED lights and the relay releases.

The LEDs indicate the condition of the relay. For pump-in operation of tank, connect the starter through contacts 8 & 5. For pump-out operation of well, connect the starter through contacts 8 & 6.

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HOKKIM

TFR-N

Floatless Relay

High

Iow

Technical Data

Supply Voltage	q240VAC q115VAC
	q24VDC q12VDC
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	AMBER LED (Relay OFF)
	RED LED (Relay ON)
Dielectric Strength	
Between:	1 KV
Probes & Supply	2 KV
Circuit	
Output & Supply	
Circuit	
Output Contacts	Relay ON 8-6 Close
	8-5 Open
	Relay OFF 8-6 Open
	8-5 Close
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The above specifications and instructions assumes that the HIGH LED is RED and the LOW LED is AMBER. Colours may differ for different production batches.

