



HOKKIM
Giving You Control

Control & Protection Relays

Model : DFR-2
Description : Floatless Relay - Double Tank Control

Utilization:

The DFR-2 is capable of controlling levels of conducting liquids in 2 tanks. Three probes are used for each tank. The probes are designated CW, LW and HW for Tank 1 and CT, LT and HT for Tank 2.

For Tank 1, when the tank liquid level reaches probe HW the contacts 11-14 close and 11-12 open. The contacts changeover only after the level recedes below probe LW. Probe CW must be constantly immersed for the relay to operate.

Similarly for Tank 2, when the tank liquid level reaches probe HT the contacts 21-24 close and 21-22 open. The contacts changeover only after the level recedes below probe LT. Probe CT must be constantly immersed for the relay to operate.

You can setup the pump to pump liquid from Tank 1 to Tank 2 by wiring a pump starter circuit through 11-14 and 21-22 in series. In this case, the circuit opens and the pump stops when liquid levels has reached below LW or above HT. Conversely, the circuit closes and the pump starts when liquid levels has reached above HW and below LT.

Technical Data

Supply Voltage	: □240VAC □115VAC □24VDC □12VDC
Frequency	: 50~60Hz
Consumption	: 2VA
ON Response Time	: 100 msec.
OFF Response Time	: 100 msec.
Sensitivity of Probes	: >50kOhms
Voltage between Probes	: 24VDC
Current through Probes	: 250uA
Indication	: Red LED (Relay ON) Amber LED (Relay OFF)
Output Contacts	: 5A 240V 50Hz AC1 Relay ON 11-14, 21-24 Close 11-12, 21-22 Open Relay OFF 11-14, 21-24 Open 11-12, 21-22 Close

