

Reliance RECID Controls
INSTALLATION OF CLARK-RELIANCE CORP.
MODEL RECID CONTROLS

Section: R500
Bulletin: R500.E137D
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Supercedes: E137-C

This bulletin should be used by experienced personnel as a guide to the installation of model RECID controls. Selection or installation of equipment should always be accompanied by competent technical assistance. We encourage you to contact the Clark-Reliance Corporation or its representative if further information is required.

SPECIFICATIONS

- Control Design:** Solid State components enclosed in a clear Lexan plug-in style housing. Housing carries no NEMA rating.
- Contact Design:** DPDT (2 form C): two normally open (N.O.) and two normally closed (N.C.) non-powered contact.
- Contact Ratings:** 5A @ 120, 240 VAC resistive, 1/10 H.P. @ 120, 240 VAC, 5A @ 30 VDC.
- Contact Life:** Mechanical – 5 million operations. Electrical – 100,000 operations minimum at rated load.
- Supply Voltage:** 24, 120, and 240 VAC models 10%, minus 15%, 50/60 Hz.
- Supply Current:** 24, 120, and 240 VAC, Relay energized 4.4 VA
- Secondary Circuit:** 12 VAC RMS voltage on probes, 1.5 milli-amp current.
- Sensitivity:** Models operate from 0– 100,000 OHM maximum specific resistance.
- Temperature:** -40 to 150° F. ambient.
- Terminals:** All connections #6-32 screw type terminals with pressure clamps
- Listings:** U.L. listed, Industrial Motor Control (508), CSA approved Industrial Control.
- LED Terminal Output:** Probe in water, +12VDC, Probe out of water, -12 VDC.

MODEL NUMBER INFORMATION

SUFFIX	SENS. (ohms)	MODE	SUPPLY
-22R	26K	DIRECT	120VAC
-23R	50K	DIRECT	120VAC
-24R	100K	DIRECT	120VAC
-25R	26K	INVERSE	120VAC
-26R	50K	INVERSE	120VAC
-27R	100K	INVERSE	120VAC
-28R	26K	DIRECT	24VAC
-29R	50K	DIRECT	24VAC
-30R	100K	DIRECT	24VAC
-31R	26K	INVERSE	24VAC
-32R	50K	INVERSE	24VAC
-33R	100K	INVERSE	24VAC
-116	26K	DIRECT	240VAC
-56R	50K	DIRECT	240VAC
-121R	100K	DIRECT	240VAC

For other relay models, please contact the factory.

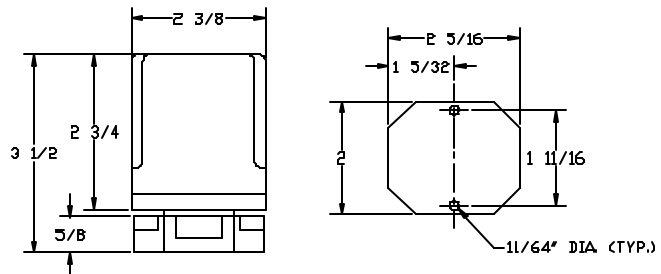
INSTALLATION

- 1) Install octal socket in appropriate enclosure using two (2) #6 or #8 metal screws.
- 2) Wire control per wiring diagram, following N.E.C. and local codes.
- 3) Install control module in socket.

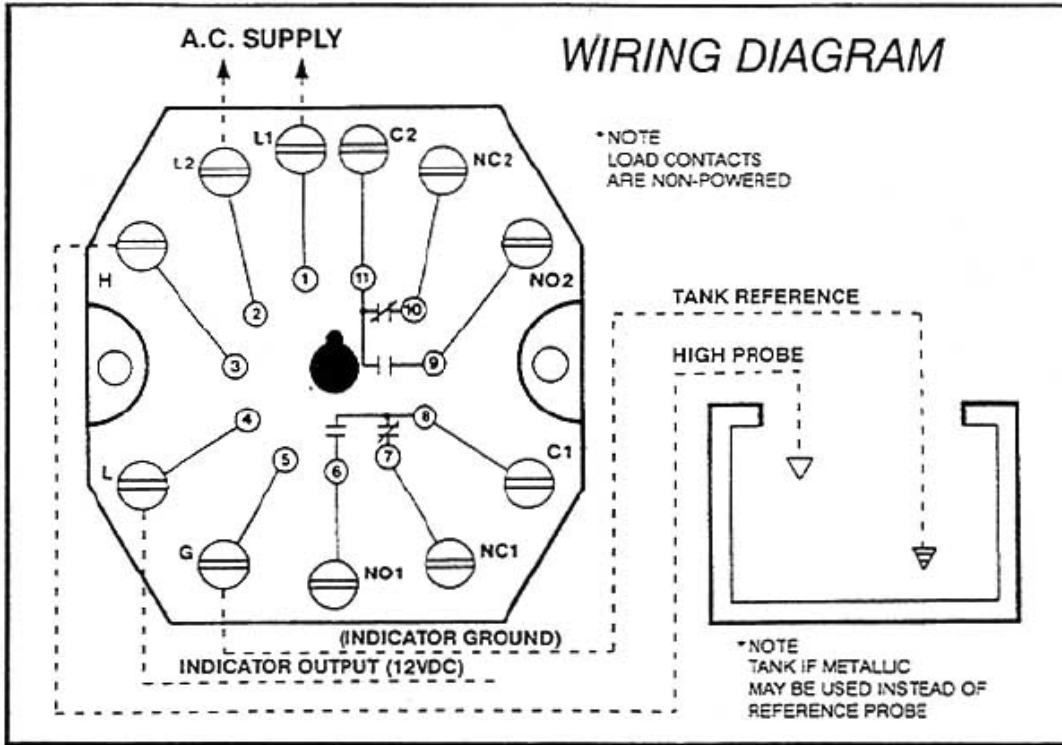
SENSITIVITIES VS MAXIMUM PROBE WIRE DISTANCE

SEN. (K ohms)	DISTANCE (ft.)
26	2,200
50	1,075
100	570

DIMENSIONAL DIAGRAM



USE COPPER (60/75°C) WIRE ONLY. TORQUE TO 20 INCH POUNDS.



OPERATION

Direct Mode: Single Level Service:

With power applied to the control and the probe on terminal 3 out of the liquid, the load contacts are in their shelf position and a negative 12 VDC signal is present on terminal 4. (LED will not be lit) When the liquid rises to the electrode on terminal 3, the control energizes, changing the state of the load contacts and providing a plus 12 VDC signal on terminal 4. (LED will be lit)

Inverse Mode: Single Level Service:

With power applied, with the probe on terminal 3 out of the liquid, the control energizes, changing the state of the load contacts and providing a negative 12VDC signal on terminal 4. (LED will be lit) When liquid rises to the electrode on terminal 3, the control de-energizes, returning the load contacts to their shelf position and a plus 12VDC signal on terminal 4.



Notice to Plant Operators

The use of non-Original Equipment Manufacturer parts (such as glass, gaskets, probes, modules, etc.) will void the Agency Approval (FM, UL, CSA, CRN, ABS, etc.), pressure/temperature rating, and warranty of this equipment. Clark-Reliance requires the use of OEM parts for all repairs on this product in order to maintain plant and personnel safety, and reliable operation.

"PARTS-PLUS"
Critical spare parts for overnight
delivery, direct from the manufacturer.

clark-reliance.com/parts



Steel Valve Repair Kit



Replacement Probes



Gage Glass Repair Kit



Simpliport Module



Simpliport Packing Nut



Replacement Relays



Probe Repair Kit



Replacement EA100 Ass'y



Replacement Micro-switch



Bronze Valve Repair Kit



Valve Packing



Replacement Floats

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