



**MODEL ULC350 RED LIGHT CONTROLLER INSTALLATION DETAILS & SPECIFICATIONS**

THE ULC350 IS A UNIVERSAL RED LIGHT CONTROL SUITABLE FOR OPERATION AS A RED ONLY CONTROLLER, OR IN CONJUNCTION WITH A STROBE FOR DUAL TOWER LIGHTING ON TOWERS LESS THAN 350' AGL. FEATURES AND SPECIFICATIONS ARE AS FOLLOWS.

- 1) ALL ALARM OUTPUTS MAY BE CONFIGURED AS N/O OR N/C BY SIMPLY MOVING A FIELD SELECTABLE JUMPER.
- 2) ALL ALARM COMMONS ARE AVAILABLE TO THE USER FOR USE WITH DISCRETE ALARM CHANNELS OR, ALL ALARMS MAY BE DAISY-CHAINED TO MONITOR ALL FUNCTIONS WITH ONE (1) ALARM CHANNEL (N/C, N/O).
- 3) TEST SWITCHES FACILITATE TESTING OF EACH ALARM, AND RED-GREEN LIGHT EMITTING DIODES PROVIDE FOR INSTANT VISUAL INDICATION OF ALL ALARM FUNCTIONS. NO NEED TO VERIFY EACH ALARM WITH EXTERNAL TEST EQUIPMENT.
- 4) TRANSIENT OVER VOLTAGE PROTECTION IS PROVIDED ON THE PC BOARD, SOLID STATE RELAY, AND PHOTOCONTROL, THROUGH OPTO-ISOLATION, TORRIOD TRANSFORMERS, MOV'S AND SOLID STATE SUPPRESSORS.
- 5) ALL ALARM FUNCTION ARE FAILSAFE AND PROVIDE FOR THE FOLLOWING.
  - a. PHOTO-CONTROL ON-OFF VERIFICATION.
  - b. AC/PCB POWER SUPPLY VERIFICATION.
  - c. SIDELIGHT LAMP OUT INDICATION (FIELD ADJUSTABLE).
  - d. FLASHER FAIL INDICATION WITH AUTOMATIC BEACON ON IF FLASHER CIRCUIT FAILS.
  - e. FIELD PROGRAMMABLE BEACON LAMP OUT INDICATION TO INDICATE FAILURE OF 1 OF 2 BEACON LAMPS OR 2 OF 2 BEACON LAMPS.
- 6) MANUAL OVERRIDE SWITCH FOR ON-OFF-PEC OPERATION TO FACILITATE SERVICING, TESTING, AND TROUBLE SHOOTING.
- 7) ALL ALARMS ARE PRESET TO CLOSE ON FAIL. REFER TO SERVICE MANUAL FOR PART NUMBERS, THEORY OF OPERATION AND LOCATION OF PROGRAMMING JUMPERS.
- 8) K9 USED ON LBRR1200 EQUIPPED MODELS ONLY.

**FIELD TEST PROCEDURE**

**SIDELIGHT ALARM CALIBRATION IS REQUIRED FOR PROPER OPERATION OF THE SIDELIGHT ALARM CIRCUIT. NOTE: RED LEADS INDICATE ALARM CONDITIONS, GREEN LEADS INDICATE SYSTEM OK.**

- 1) FLIP S5 TO THE ON POSITION (S1, 2 & 3 DOWN).
- 2) D22 SHOULD NOW BE ON TO INDICATE TOWER LIGHTS ARE ON AND D20 SHOULD BE FLASHING.
- 3) ROTATE R6 CW AS VIEWED FROM THE TOP UNTIL RED LED D5 COMES ON. (THE SIDELIGHT CIRCUIT MUST HAVE 2-0B16W'S TO CLEAR THE ALARM, AND WILL WORK WITH UP TO 8-0B16W'S.) SLOWLY ROTATE R6 CW UNTIL THE RED D5 GOES OFF AND THE GREEN D4 COMES ON. FLIP S1 UP TO SIMULATE A SIDELIGHT FAILURE AND WATCH FOR D4 TO TURN OFF & D5 TO COME ON. NOTE THE TIME DELAY FROM ON TO OFF & VICE VERSA. CONTINUE TO ROTATE R6 WHILE FLIPPING S1 UNTIL THE TIME DELAY APPEARS EQUAL FROM ON TO OFF & VICE VERSA. RETURN S1 TO THE DOWN POSITION. CALIBRATION COMPLETE.
- 5) FLIP S3 DOWN, AND THE GREEN LED D10 SHOULD COME BACK ON AND THE RED LED DB SHOULD GO OFF. TEST COMPLETE.

**FLASHER FAIL TEST**

- 1) S5 IS STILL IN THE ON POSITION.
- 2) NOTE THAT D20 IS FLASHING AND WHEN S2 IS FLIPPED UP D20 GOES OUT. THE FLASHER HAS NOW STOPPED AND AFTER A SHORT DELAY THE GREEN LED D15 SHOULD GO OFF, AND THE RED LED D14 SHOULD COME ON INDICATING A FLASHER FAIL ALARM. RELAY K9 WILL ALSO DE-ENERGIZE AND TURN THE BEACON ON STEADY. TO RESET THE ALARM, FLIP S5 TO THE OFF POSITION AND FLIP S2 BACK TO THE DOWN POSITION. RETURN S5 TO THE PEC POSITION TO RESUME NORMAL OPERATION. TEST COMPLETE.

ULC350	COMPLETE CONTROL
ULC350PNL	LESS HSG & PHOTOCONTROL
ULC350NEMA4	W/NEMA4 OUTDOOR HOUSING
ULC350LPC	LESS PHOTOCONTROL

No.	Revision Description	Date	Rev. By	Ckd By	Appd By
R3	REDESIGNED	8/18/97	JHD	DC	TS
R2	MOVED TERMINAL BLOCKS	6/18/95	JHD	DC	TS
R1	REVISED JUMPER AND SWITCH NOTES	11/14/94	JHD	DC	TS

No.	Revision Description	Date	Rev. By	Ckd By	Appd By
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.					
<b>ROHN</b>					
<b>PICTORIAL LAYOUT FOR ULC350</b>					
Scale:	NONE	By:	JHD	Date:	10/19/94
Drawn:	JHD	10/19/94	Checked:	DC	10/21/94
App. Eng.:	TS	10/21/94	App. Sales:	SAK	10/21/94
ENG. FILE:				DRAWING NO.: <b>C941430R3</b>	