

# TOMAR

## Instruction Manual

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## 948L-DCP

*Digital Siren & Control Panel*

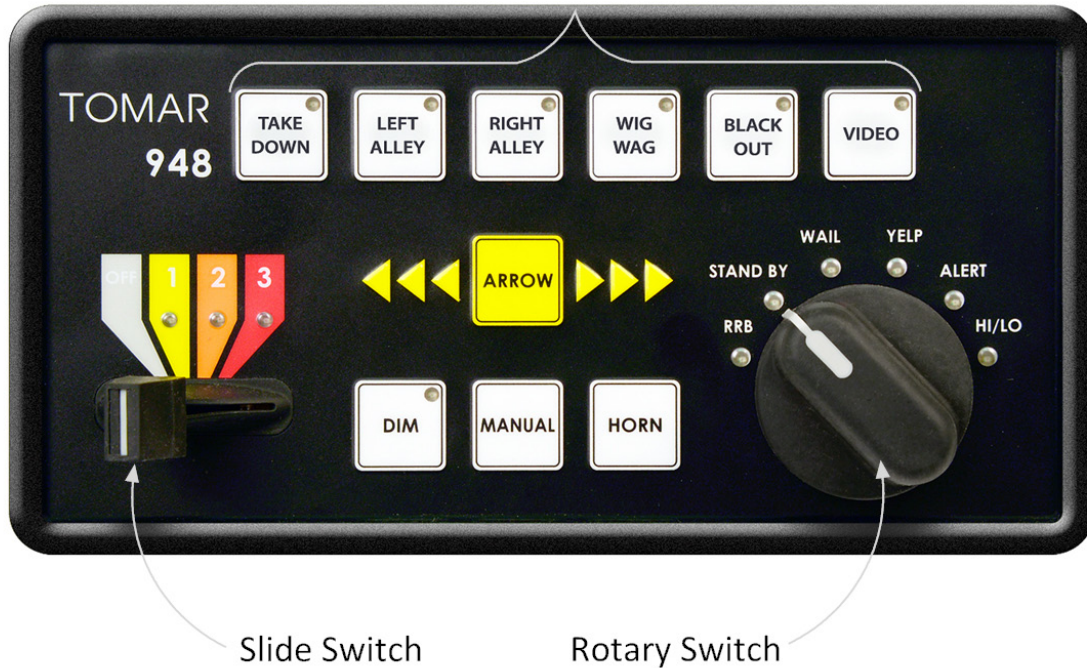
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TOMAR Electronics, Inc.  
2100 W. Obispo Ave.  
Gilbert, AZ 85233 USA

800.338.3133 ph  
800.688.6627 fax

[www.tomar.com](http://www.tomar.com)

## Auxiliary Switches 1-6



### SWITCH FUNCTIONS:

The 948L-DCP is a digital output switch interface that can be used to directly control a Tomar 930L or 970L series lightbar equipped with a digital cable, or the 940-AMP.

### Switch Functions When Directly Controlling a Lightbar

Auxiliary Switch 1	Takedown
Auxiliary Switch 2	Left Alley
Auxiliary Switch 3	Right Alley
Auxiliary Switch 4	CA Steady/Rear Work
Auxiliary Switch 5	Preemption
Slide Switch 1	Warning Mode 1
Slide Switch 2	Warning Mode 1 + 2
Slide Switch 3	Warning Mode 1 + 2 + 3
Arrow Switch	Arrow Functions
Dim Switch	Lightbar Dim
Manual Switch	N/A
Horn Switch	N/A
Rotary Switch	N/A

## Switch Functions When Interfacing With a 940-AMP

Auxiliary Switch 1	Amp Output 7	+12Vdc
Auxiliary Switch 2	Amp Output 6	+12Vdc
Auxiliary Switch 3	Amp Output 5	+12Vdc
Auxiliary Switch 4	Amp Output 4	+12Vdc
Auxiliary Switch 5	Amp Output 3	+12Vdc
Auxiliary Switch 6	Amp Output 2	+12Vdc
Slide Switch Position 1	Amp Output 10	+12Vdc
Slide Switch Position 2	Amp Output 10+9	+12Vdc
Slide Switch Position 3	Amp Output 10+9+8	+12Vdc
Arrow Switch	Amp Output (18)>(17)>(18,17)	+12Vdc
Dim Switch	Amp Output 1	-12Vdc
Manual Switch	Activates Siren/Secondary Tone	
Horn Switch	Activates Electronic Air Horn	
Rotary Switch	Siren Tone Selection	

### Default Switch Configurations:

Slide Switch Position 0	OFF
Slide Switch Position 1	Mode 1
Slide Switch Position 2	Mode 1 + Mode 2
Slide Switch Position 3	Mode 1 + Mode 2 + Mode 3
Auxiliary 1	Toggle ON/OFF
Auxiliary 1	Toggle ON/OFF
Auxiliary 1	Toggle ON/OFF
Auxiliary 1	Toggle ON/OFF
Auxiliary 1	Toggle ON/OFF
Auxiliary 1	Toggle ON/OFF
Auxiliary 6	Momentary
Arrow Switch	Toggle LEFT > RIGHT > CENTER OUT > OFF, hold ARROW button for more than 1 Second to shut off.
DIM Switch	Toggle-ON/OFF and Illuminated when low intensity activated

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### PROGRAMMING THE 948L-DCP:

To enter Programming Mode set the Rotary Switch to STAND-BY, press and hold the MANUAL and HORN buttons simultaneously for 2 seconds . AUXILIARY 1 through 6 will flash 3 times to indicate successful activation of programming mode.

### **Programming AUX Switch Functionality:**

Press the individual AUX switch you wish to change. The default for AUX switches 1 through 5 is ON/OFF, pressing a switch once will change the function to MOMENTARY, a second press will change it to TIME DELAY, a third press back to ON/OFF. AUX switch 6 defaults to MOMENTARY and the available options are MOMENTARY, TIME DELAY (8 seconds), ON/OFF or RRB/MIC Volume. As a visual indicator the switch will display a distinctive flash rate corresponding to the function selected. Press MANUAL button once after programming each AUXILIARY switch.

- |                  |   |                                       |
|------------------|---|---------------------------------------|
| a) TOGGLE ON/OFF | > | LED STEADY                            |
| b) MOMENTARY     | > | LED SLOW Flash (256ms)                |
| c) TIME DELAY    | > | LED MEDIUM Flash (128ms)              |
| d) RRB/MIC       | > | LED FAST flash (64ms) - on AUX 6 only |

Any AUX switch can be set to operate only when the ignition line to the siren amplifier is activated. To make an AUX switch ignition enabled only press the AUX switch to be controlled, press the ARROW button then press the MANUAL button to save.

### **Associating an AUX Switch to a Slide Switch position:**

Move the slide switch to the position to be programmed. Press the AUX switch (s) to associate to the mode position. Press the MANUAL button once after selecting AUXILIARY switch (s). Repeat for other slide switch positions.

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### **SIREN FUNCTIONS:**

The default setting is for the siren to activate only in Mode 3 in the tone indicated on the rotary switch. To enable siren activation in Mode 1 or Mode 2 move the Mode switch to the position to be changed. Move the rotary switch to WAIL and then press the HORN button. The YELP, ALERT and HI/LOW leds will begin flashing. Press manual to save selection then return the rotary switch to the STAND BY position.

For independent control of the siren move the slide switch to Mode 3. Press the HORN button then press the MANUAL button to save the selection. If siren functionality has been added to any other Mode position repeat the above steps for each Mode position.

Setting secondary siren tones. The default secondary tone is YELP. To change the secondary tone begin with the slide switch in the off position. Set the rotary switch to WAIL, press the HORN button, once the STAND BY led starts flashing return the rotary switch to the STAND BY position. The currently programmed secondary tone will begin to flash. Press the HORN button to scroll through the available secondary tones. Available tones are as follows:

Wail > Yelp > Hyper Yelp > Alert > Hyper Alert > Hi/Low > Hyper Hi/LOW  
Once the secondary tone is selected press the MANUAL button to save the selection.

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## **EXIT PROGRAM MODE**

Press and hold the MANUAL and HORN buttons simultaneously for 2 seconds to exit programming mode. The AUX switch indicator leds will flash 3 times to indicate the program selections have been saved.

### **Exit Program Mode And Lock Out Changes**

To exit program mode and lock out further changes to the 948L-DCP press and hold the ARROW button and with the ARROW button depressed simultaneously press and hold the HORN and MANUAL buttons for 2 seconds. The AUX switch indicator leds will sweep three times to indicate program selections have been saved and further changes are locked out.

### **Unlocking A Locked 948L-DCP**

To unlock a previously locked 948L-DCP press and hold the MANUAL button and plug the unit into the slave port on the 940-AMP. AUXILIARY 1 through 6 will flash 3 times to indicate activation of programming mode. Press and hold the MANUAL and HORN buttons simultaneously for 2 seconds to exit programming mode. The AUX switch indicator leds will flash 3 times to indicate the unlocked setting has been saved.

### **Copying Saved Settings To Un-Programmed Controllers**

To copy a saved program to additional units, attach the 948L-DCP to the MASTER port on the 940-AMP using the CAT5 cable. Enter program mode then move the rotary switch to the RRB position. Attach the 948L-DCP to be programmed to the SLAVE port on the 940-AMP using a CAT5 cable. The AUX 1 indicator led on the SLAVE 948L-DCP will flash indicating the unit is waiting to receive a program. Press the MANUAL button on the MASTER 948L-DCP, AUX 1-6 led indicators on the MASTER 948L-DCP will flash three times to indicate the program has been sent. The AUX 6 led indicator on the slave 948L-DCP will flash to indicate the program was successfully received.

### **Reset To Factory Defaults**

To reset a 948L-DCP to factory default settings, enter programming mode as described above. Once in programming mode press and hold the ARROW button then simultaneously press and hold both the DIM button and the HORN button until all led indicators begin to flash then release. Press the MANUAL button to accept the change. Exit programming mode by pressing the HORN and MANUAL buttons simultaneously until the AUX 1-6 led indicators three times.