

# thalia p quick reference

version 120807A

**SELECTING WHICH MOTOR IS MOTOR 1 AND WHICH IS MOTOR 2**

MOTOR 1 OPENS FIRST AND CLOSSES SECOND; MOTOR 2 OPENS SECOND AND CLOSSES FIRST

**ONLY USE 16 AWG, STRANDED, SJTOW OR SJTOOW CABLE. AVOID SPLICES. IF NECESSARY, A SPLICE MUST BE ABOVE GROUND IN A DRY JUNCTION BOX**

## PHOBOS, IGEA, & SUB BT WIRING

MOTOR TERMINAL	WIRE COLOR	THALIA P MOTOR 1	THALIA P MOTOR 2
1	WHITE	42	43
2	RED	10	14
3	BLACK	11	15

**\*IGEA ONLY** - ON LEFT SIDE OPERATORS, BLACK & RED WIRES ARE SWAPPED AT THE MOTOR.

**\*SUB BT ONLY** - ON LEFT SIDE OPERATORS, BLACK & RED WIRES ARE SWAPPED AT THE THALIA TERMINAL

## LUX BT

MOTOR TERMINAL	WIRE COLOR	THALIA P MOTOR 1	THALIA P MOTOR 2
1	RED	10	14
2	BLACK	11	15
3	GREEN	41	41
4	WHITE	42	43

## QUICK SETUP MENU

PRESS THE [OK] BUTTON ONCE TO ENTER. USE [+] AND [-] TO FIND SELECTION. USE [OK] TO SELECT

LANG (LANGUAGE)	TYPE	N_MOT (NUMBER OF MOTORS)	DIR (OPEN DIRECTION)	PRESET	LSW. ADJUST *LUX AND SUB ONLY	AUTOSET	MEM REMOTES
ITA (ITALIAN)	ELI	2	INT (INTERIOR)	AR (AUTOMATIC RESIDENTIAL)	OPM1 (OPEN MOTOR 1)		HIDDEN BUTTON
FRA (FRENCH)	PHOB (PHOBOS)	1	EXT (EXTERIOR)	SR (SEMI-AUTOMATIC RESIDENTIAL)	OPM2 (OPEN MOTOR 2)		RELEASE
DEU (GERMAN)	IGEA			AC (AUTOMATIC COMMERCIAL)	CLM2 (CLOSE MOTOR 2)		DESIRED BUTTON
ENG (ENGLISH)	LUX			SC (SEMI-AUTOMATIC COMMERCIAL)	CLM1 (CLOSE MOTOR 1)		
ESP (SPANISH)	LUX 6			IND (INDUSTRIAL)			
	SUB						

## PRESET TABLE

FEATURES	AR	SR	AC	SC	IND
	AUTOMATIC RESIDENTIAL	SEMI-AUTOMATIC RESIDENTIAL	AUTOMATIC COMMERCIAL	SEMI-AUTOMATIC COMMERCIAL	INDUSTRIAL
AUTOMATIC CLOSING TIMER	X		X		
PRE-ALARM			X	X	
UNINTERRUPTED OPEN CYCLE			X	X	
INSTANT REVERSE ON CLOSING	X		X		
HOLD TO RUN					X
QUICK REMOTE PROGRAMMING	X	X	X	X	

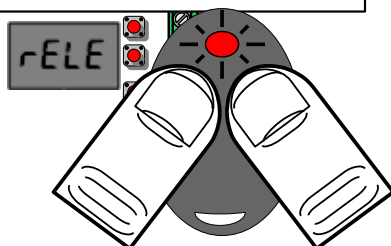
**PRE-ALARM:** ALUX WITH VALUE SET TO 6, ACTIVE FOR 3 SECONDS BEFORE GATE MOVEMENT

**UNINTERRUPTED OPEN CYCLE:** A START COMMAND WILL NOT STOP THE GATE FROM OPENING.

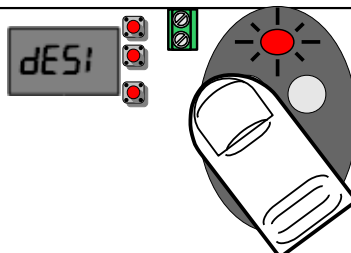
**INSTANT REVERSE:** A START COMMAND WILL STOP AND REVERSE A CLOSING GATE. OTHERWISE IT JUST STOPS IT AND AN ADDITIONAL START COMMAND WILL REVERSE IT.

**PROGRAMMING REMOTES** - AFTER YOU SEE "HIDDEN BUTTON" DISPLAYED ON THE SCREEN...

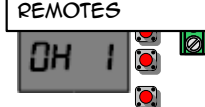
SIMULTANEOUSLY PRESS AND HOLD THE 2 BUTTONS ON YOUR REMOTE UNTIL THE SCREEN READS "RELEASE"

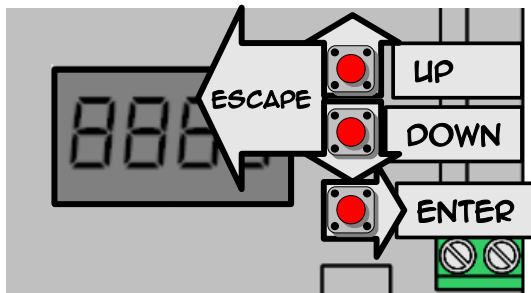


THE SCREEN WILL THEN READ "DESIRED BUTTON". PRESS THE BUTTON YOU WANT TO OPERATE THE GATE WITH



THE SCREEN WILL DISPLAY "OK" AND THE NUMBER OF THE REMOTE IN MEMORY. REPEAT THE PROCESS FOR ADDITIONAL REMOTES





## NAVIGATING THE PROGRAMMING MENU

BUTTON	NAVIGATION	VALUE EDIT
[+]	SCROLLS UP	INCREASE VALUE
[-]	SCROLLS DOWN	DECREASE VALUE
[OK]	ENTER	ENTER VALUE
[+] & [-]	ESCAPE	ESCAPE

**PRESS THE [OK] BUTTON RAPIDLY TWICE TO ENTER PROGRAMMING**

MAIN	SELECTION	DESCRIPTION	DEFAULT	RANGE	
PARAM >	OPEN DELAY TIME	MOTOR 2 OPENING DELAY IN SECONDS	1	0-10	
	CLS DELAY TIME	MOTOR 1 CLOSING DELAY IN SECONDS	1	0-10	
	TCA	AUTO-CLOSE TIME ADJUSTMENT IN SECONDS	10	1-180	
	TRF. LGHT. CLR. T	TRAFFIC ZONE CLEAR TIME ADJUSTMENT IN SECONDS	40	1-180	
	OP. DIST. SLOWD	SLOWDOWN STARTING DISTANCE FROM END OF OPEN TRAVEL EXPRESSED IN PERCENTAGE	10	0-50	
	CL. DIST. SLOWD	SLOWDOWN STARTING DISTANCE FROM END OF CLOSE TRAVEL EXPRESSED IN PERCENTAGE	10	0-50	
	DIST. DECEL	SLOWDOWN STARTING DISTANCE FROM END OF OPEN AND CLOSE TRAVEL EXPRESSED IN PERCENTAGE	15	0-50	
	OP. FORCE	PERCENTAGE OF OPENING FORCE EXERTED OVER THE AUTOSSET VALUE BEFORE OBSTRUCTION IS SENSED	50	1-99	
	CLS. FORCE	PERCENTAGE OF CLOSING FORCE EXERTED OVER THE AUTOSSET VALUE BEFORE OBSTRUCTION IS SENSED	50	1-99	
	OP SPEED	MOTOR OPENING SPEED EXPRESSED IN PERCENTAGE	99	15-99	
	CL SPEED	MOTOR CLOSING SPEED EXPRESSED IN PERCENTAGE	99	15-99	
	SLOW SPEED	SLOWDOWN SPEED EXPRESSED IN PERCENTAGE FROM MAXIMUM SPEED.	25	15-99	
	LOGIC >	MOTOR TYPE	1=ELI 250; 2=PHOBOS BT; 3=IGEA BT; 4=LUX BT; 5=LUX 6 BT; 6=SUB BT	0	0-6
		TCA	TIMER TO CLOSE AUTOMATICALLY. 0=OFF / 1=ON	0	0-1
FAST CLS.		CLOSES WHEN SENSORS ARE CLEARED. 0=OFF / 1=ON	0	0-1	
STEP-BY-STEP MOVEMENT *		DETERMINES HOW THE SYSTEM REACTS WHEN A START COMMAND IS RECEIVED DURING OPERATION	0	0-2	
PRE-ALARM		GATE RUNNING OUTPUT (AUX VALUE=6) CLOSING 3 SEC. BEFORE GATE MOVEMENT. 0=OFF / 1=ON	0	0-1	
HOLD-TO-RUN		REQUIRES CONTINUOUS OPEN OR CLOSE COMMAND INPUT FOR GATE TO OPERATE. 0=OFF / 1=ON	0	0-2	
IBL OPEN		IGNORES START INPUT DURING THE OPENING CYCLE. 0=OFF / 1=ON	0	0-1	
IBL TCA		IGNORES THE START INPUT WHILE COUNTING DOWN FOR AUTOMATIC CLOSING. 0=OFF / 1=ON	0	0-1	
IBL CLOSE		IGNORES THE START INPUT DURING THE CLOSING CYCLE. 0=OFF / 1=ON	0	0-1	
RAM BLOW C. OP		PUSHES GATE AGAINST PHYSICAL STOP BEFORE OPENING	0	0-1	
RAM BLOW C. CL		PUSHES GATE AGAINST PHYSICAL STOP BEFORE CLOSING	0	0-1	
BLOC PERSIST		HOURLY PUSH AGAINST PHYSICAL STOP	0	0-1	
PRESS SWC		PUSHES GATE AGAINST PHYSICAL STOP FOR .5 SECONDS AFTER CLOSE LIMIT HAS BEEN REACHED.	0	0-1	
ICE		CONTINUOUS FORCE LEARNING ON EVERY OPERATION.	0	0-1	
1 MOT. ON		SINGLE MOTOR OPERATION. 0= (2)MOTORS; 1=(1)MOTOR.	0	0-1	
OPEN IN OTHER DIRECT.		0 = PULL TO OPEN; 1 = PUSH TO OPEN	0	0-1	
SAFE 1 *		CONFIGURATION OF SAFETY INPUT TERMINAL 72. DEFAULTED AS PHOT (OBSTRUCTION)	0	0-8	
SAFE 2 *		CONFIGURATION OF SAFETY INPUT TERMINAL 74. DEFAULTED AS BAR (SAFETY EDGE)	6	0-8	
SAFE 3 *		CONFIGURATION OF SAFETY INPUT TERMINAL 77. DEFAULTED AS PHOT OP (OPENING OBSTRUCTION)	2	0-8	
SAFE 4 *		CONFIGURATION OF SAFETY INPUT TERMINAL 79. DEFAULTED AS PHOT CL (CLOSING OBSTRUCTION)	4	0-8	
SAFE 5 *		CONFIGURATION OF SAFETY INPUT TERMINAL 82. DEFAULTED AS PHOT (OBSTRUCTION)	0	0-8	
SAFE 6 *		CONFIGURATION OF SAFETY INPUT TERMINAL 84. DEFAULTED AS BAR (SAFETY EDGE)	6	0-8	
IC 1 *		CONFIGURATION OF COMMAND INPUT TERMINAL 61. DEFAULTED AS START E	0	0-6	
IC 2 *		CONFIGURATION OF COMMAND INPUT TERMINAL 62. DEFAULTED AS PED (PARTIAL OPEN)	4	0-6	
IC 3 *		CONFIGURATION OF COMMAND INPUT TERMINAL 64. DEFAULTED AS OPEN	2	0-6	
IC 4 *		CONFIGURATION OF COMMAND INPUT TERMINAL 65. DEFAULTED AS CLOSE	3	0-6	
AUX 1 *		CONFIGURATION OF AUXILIARY OUTPUT TERMINALS 22 & 23 . DEFAULTED AS GATE NOT CLOSED CONTACTS.	3	0-8	
AUX 2 *		CONFIGURATION OF AUXILIARY OUTPUT TERMINALS 24 & 25 . DEFAULTED AS MAG-LOCK CONTACTS.	1	0-8	
AUX 3 *		CONFIGURATION OF AUXILIARY OUTPUT TERMINALS 26 & 27. DEFAULTED AS 2 <sup>ND</sup> CHANNEL CONTACTS.	0	0-8	
LOCK *		TERMINAL 28 AND 29 OUTPUT SELECTION. DEFAULTED AS 12V SOLENOID LOCK	0	0-3	
FIXED CODE		ROLLING CODE DEFEAT. 0 = ROLLING CODE; 1 = FIXED CODE	0	0-1	
RADIO PROG		QUICK REMOTE PROGRAMMING. 0 = DISABLED; 1 = ENABLED	1	0-1	
SERIAL MODE	0 = SLAVE UNIT; 1 = MASTER UNIT	0	0-1		
ADDRESS	UNIT'S NETWORK IDENTIFICATION NUMBER.	0	0-127		
EXPI 1 *	CONFIGURATION OF EXPANSION BOARD INPUT 1. DEFAULTED AS START COMMAND.	1	0-14		
EXPI 2 *	CONFIGURATION OF EXPANSION BOARD INPUT 2. DEFAULTED AS START COMMAND.	0	0-10		
EXPO 1 *	CONFIGURATION OF EXPANSION BOARD OUTPUT 1. DEFAULTED AS TRAFFIC LIGHT CONTROL..	9	0-9		
EXPO 2 *	CONFIGURATION OF EXPANSION BOARD OUTPUT 2. DEFAULTED AS TRAFFIC LIGHT CONTROL..	9	0-9		
TRAFFIC LIGHT PREFLASHING	RED LIGHT FLASHES FOR 3 SEC. AT EVERY START. 0 = OFF; 1 = ON	0	0-1		
TRAFFIC LIGHT RED LAMP ALWAYS ON	RED LIGHT REMAINS ON WHEN GATE IS CLOSED. 0 = OFF; 1 = ON	0	0-1		
RADIO >	ADD START	LEARNS TRANSMITTER BUTTON AS START COMMAND			
	ADD 2CH	LEARNS TRANSMITTER BUTTON AS 2 <sup>ND</sup> CHANNEL			
	ERASE 64	ERASE COMPLETE MEMORY			
	COD RX	SHOW RECEIVER ID CODE			
	WK	W LINK.			
DEFAULT	RESTORES BOARD TO FACTORY SETTINGS. NO EFFECT ON RADIO				
LANGUAGE >	ITA	ITALIAN			
	FRA	FRENCH			
	DEU	GERMAN			
	ENG	ENGLISH			
	ESP	SPANISH			
AUTOSSET	OPERATES MOTOR(S) SEVERAL TIMES AND AUTOMATICALLY ADJUST ITS FORCE SETTINGS				
L. SW ADJ	LIMIT OF TRAVEL ADJUSTMENT. ONLY AVAILABLE WITH TYPE 4 AND 5 MOTORS				
STAT >	VERS	DISPLAYS BOARD FIRMWARE VERSION.			
	N. CYCLES	DISPLAYS NUMBER OF HUNDREDS OF CYCLES (001=100; 010=1000; 100=10,000)			
	N. REMOTES	DISPLAYS THE NUMBER OF REMOTES IN MEMORY.			
	ERR	DISPLAYS THE LAST 30 BOARD ERRORS IN DESCENDING ORDER.			
PASSWORD	PASSWORD SETTING FOR WIRELESS PROGRAMMER				

# ADVANCED PROGRAMMING OF INPUTS AND OUTPUTS

## SAFE LOGICS

VALUE	FUNCTION	DESCRIPTION
0	PHOT	OBSTRUCTION SENSOR INPUT, NON-CONTACT
1	PHOT TEST	OBSTRUCTION SENSOR INPUT, NON-CONTACT, SUPERVISED (FAULT ACTIVE)
2	PHOT OP	OPENING OBSTRUCTION SENSOR INPUT, NON-CONTACT
3	PHOT OP TEST	OPENING OBSTRUCTION SENSOR INPUT, NON-CONTACT, SUPERVISED (FAULT ACTIVE)
4	PHOT CL	CLOSING OBSTRUCTION SENSOR INPUT, NON-CONTACT
5	PHOT CL TEST	CLOSING OBSTRUCTION SENSOR INPUT, NON-CONTACT, SUPERVISED (FAULT ACTIVE)
6	BAR	SAFETY EDGE (CONTACT OBSTRUCTION) INPUT
7	BAR TEST	SAFETY EDGE (CONTACT OBSTRUCTION) INPUT, SUPERVISED (FAULT ACTIVE)
8	BAR 8K2	SAFETY EDGE (CONTACT OBSTRUCTION) EOL RESISTOR SUPERVISED INPUT

## IC & EXPI LOGICS

VALUE	FUNCTION	IC 1 - 4	EXPI 1	EXPI 2
0	START - EXTERNAL	●	●	●
1	START - INTERNAL	●	●	●
2	OPEN	●	●	●
3	CLOSE	●	●	●
4	PED (PARTIAL OPEN)	●	●	●
5	TIMER (HOLD OPEN)	●	●	●
6	TIMER PED (HOLD PARTIAL OPEN)	●	●	●
7	OBSTRUCTION (PHOT)		●	●
8	OPENING OBSTRUCTION (PHOP)		●	●
9	CLOSING OBSTRUCTION (PHCL)		●	●
10	SAFETY EDGE (BAR)		●	●
11	OBSTRUCTION, SUPERVISED		●	
12	OPENING OBSTRUCTION, SUPERVISED		●	
13	CLOSING OBSTRUCTION, SUPERVISED		●	
14	SAFETY EDGE, SUPERVISED		●	

**\*NOTE** - WHEN THE EXPANSION BOARD INPUT 1 (EXPI 1) IS SET TO VALUES 11 ~ 14, THE EXPANSION BOARD INPUT 2 (EXPI 2) AUTOMATICALLY BECOMES THE SUPERVISION CIRCUIT (FAULT).

## AUX & EXPO LOGICS

VALUE	FUNCTION
0	2ND CHANNEL RECEIVER OUTPUT
1	GATE OPEN LIGHT. OUTPUT ACTIVE WHEN GATE IS NOT CLOSED. FLASHES WHILE CLOSING
2	COURTESY LIGHT. OUTPUT ACTIVE DURING AND FOR 90 SECONDS AFTER OPERATION.
3	GATE NOT CLOSED. OUTPUT ACTIVE UNTIL CLOSE LIMIT IS REACHED
4	START OF CYCLE. OUTPUT ACTIVE FOR 1 SECOND AT THE BEGINNING OF EACH CYCLE
5	GATE OPEN ALARM. OUTPUT ACTIVE IF GATE IS HELD OPEN FOR MORE THAN DOUBLE THE TIMER TO CLOSE TIME
6	GATE RUNNING. OUTPUT ACTIVE WHILE MOTORS ARE POWERED
7	SOLENOID LOCK. OUTPUT ACTIVE FOR 2 SECOND AT THE BEGINNING OF OPEN CYCLE
8	MAGNETIC LOCK. OUTPUT ACTIVE WHEN GATE IS CLOSED
9	TRAFFIC LIGHT CONTROL (EXPANSION BOARD OUTPUT WITH TLB BOARD ONLY)

## LOCK LOGICS

VALUE	FUNCTION
0	12V DC SOLENOID LOCK OUTPUT
1	12V DC MAGNETIC LOCK OUTPUT
2	24V DC SOLENOID LOCK OUTPUT
3	24V DC MAGNETIC LOCK OUTPUT

## STEP-BY-STEP LOGICS

VALUE	0	1	2
<b>LOGIC</b>	4-STEP	3-STEP	2-STEP
<b>OPENING</b>	STOPS + TCA	STOPS + TCA	REVERSES
<b>CLOSING</b>	STOPS	REVERSES	REVERSES

## COMMON ERROR CODES

ERROR	DESCRIPTION	ERROR	DESCRIPTION
ER20	MOTOR 2 IMPROPER ENCODER MOVEMENT DETECTED	ER35	MOTOR 1 OBSTACLE DETECTION DURING OPENING
ER22	MOTOR 2 OPPOSITE MOVEMENT	ER36	MOTOR 1 OBSTACLE DETECTION DURING CLOSING
ER25	MOTOR 1 IMPROPER ENCODER MOVEMENT DETECTED	ER37	MOTOR 1 OBSTACLE DETECTION DURING OPENING SLOWDOWN
ER27	MOTOR 1 OPPOSITE MOVEMENT	ER38	MOTOR 1 OBSTACLE DETECTION DURING CLOSING SLOWDOWN
ER30	MOTOR 2 OBSTACLE DETECTION DURING OPENING	ER40	THERMAL OVERLOAD
ER31	MOTOR 2 OBSTACLE DETECTION DURING CLOSING	ER61	OPERATING ON BATTERY POWER
ER32	MOTOR 2 OBSTACLE DETECTION DURING OPENING SLOWDOWN	ERSW	ERROR SETTING LIMITS
ER33	MOTOR 2 OBSTACLE DETECTION DURING CLOSING SLOWDOWN	ERF9	LOCK OUTPUT OVERLOAD

# WIRING PERIPHERAL DEVICES

**PHOTOCELL SENSOR AND/OR LOOP DETECTOR WIRING**  
(CLOSING OBSTRUCTION)

POWER + -----	51
POWER - -----	50
RELAY COMMON -----	76
RELAY N.C. -----	79

**"START COMMAND" DEVICE**  
(SINGLE PUSH-BUTTON, RADIO RECEIVER, KEYPAD, ETC.)

POWER + -----	51	(ONLY IF POWER IS REQUIRED)
POWER - -----	50	
RELAY COMMON -----	60	
RELAY N.O. -----	61	

**"OPEN ONLY" DEVICE**  
(RADIO RECEIVER, KEYPAD, ETC.)

POWER + -----	51
POWER - -----	50
RELAY COMMON -----	63
RELAY N.O. -----	64

**SHADOW LOOP SENSOR WIRING**  
(PREVENTS THE GATE FROM STARTING TO CLOSE)

**PROGRAMMING:** LOGIC > SAFE 5 = 004  
> AUX 2 = 006

POWER + -----	51
POWER - -----	50
RELAY COMMON -----	81
RELAY N.C. -----	82
	24
	25

INSTALL JUMPERS

**EXTERNAL LOCK WIRING**

**PROGRAMMING:**

LOGIC > LOCK > 000 = 12V SOLENOID LOCK  
001 = 12V MAGLOCK  
002 = 24V SOLENOID LOCK  
003 = 24V MAGLOCK

+ LOCK POWER -----	28
- LOCK POWER -----	29

# THALIA P CONNECTION TERMINALS

