STANDARD FUNCTIONS (all relay packs)

A-LEVEL FUNCTIONS

- 1 Button Mode
- 4 100 Hour Burn-in
- Restore Factory Defaults
- 20 LED Operation

- **B-LEVEL FUNCTIONS**
- 1 Name Unit w/ Number
- 2 Semi-Auto Grace Period 3 Predictive Exit Time
- 4 Predictive Grace Time
- 11 Occupancy Tracking
- 12 Occupancy Tracking Channel
- 13 Photocell Tracking
- 14 Photocell Tracking Channel
- 15 Switch Tracking
- 16 Switch Tracking Channel
- 17 Override (Relay / Dimming)
- 18 Special Operating Mode
- 19 Invert Relay Logic
- 23 Special Switch Tracking Mode
- 27 Relay Always On
- 29 Occupancy Expiration of Manual Off
- 30 Timed Expiration of Manual Off

DIMMING FUNCTIONS (nPP16 D, nPP16 D ER, nSP5 PCD units) _____

A-LEVEL FUNCTIONS

- 3 Idle Time Until Dim
- 17 Secondary Zone Dimming Offset
- 23 Occupied Bright Level
- 24 Unoccupied Dim Level
- 26 Follow Photocell Mode

B-LEVEL FUNCTIONS

- 21 WallPod Dimming Adjustments
- 22 Infinite Dimming Time Delay
- 26 PCD Frequency¹
- 28 Dimming Always On
- 31 High End Trim
- 32 Low End Trim
- Note 1: nSP5 PCD units only

A-LEVEL PROGRAMMING INSTRUCTIONS

PLEASE READ ALL 7 STEPS BEFORE PROGRAMMING

- Enter programming mode by pressing & holding button until LED flashes rapidly. Release button.
- Enter a specific programming function by pressing button the number of times as the desired function number from the A-Level Detailed Function Tables (e.g., press 3 times for function 3. Idle Time Until Dim).
- LED will flash back the selected function's current setting (e.g., four flashes for 7.5 min). To change setting, proceed to step 4 before flash back sequence repeats 10 times. To exit the current function or to change to a different function, wait for sequence to repeat 10 times then return to step 1.
- Press button the number of times indicated in the particular function's detailed table for the NEW desired setting (e.g., press twice for 2.5 min). As confirmation of setting change, LED flashes back the NEW setting 10 times before exiting.
- Exit programming mode by pressing and holding button again until LED flashes rapidly. Release button.
- Re-enter function number as final confirmation that its setting changed.
- LED will flash twice indicating acceptance of NEW settings. If two flashes are not seen, repeat 7 step process.

A-LEVEL SHORT-CUT PROGRAMMING INSTRUCTIONS

A-Level Functions 3, 4, 17, 20, 23, 24, & 26 do not require above steps 1 or 5-7. Note that after the function number has been entered (step 2) the current function will blink back confirmation three times instead of 10. To exit, wait for new setting to blink back 3 times.

A-l	_E'	VEL DET	All	ED FUN	СТІ	ON TABL	ES							EVEL P			
1	=	Button M	//o	de							1	PLE	EA	SE READ) ALL	4 STEPS	5
4		Normal*	5	Button Mode	е							1.		Enter B-I	_evel	program	n
× .		Idle Tim	e U 3		-	10	-	45 min	•	00				rapidly, re programn	lease	hold dov	N
1	-	2.5 min	3 4	5 min 7.5* min	5 6	10 min 12.5 min	8	15 min 17.5 min	9	20 min	:	2.		Enter a p desired f	unctio	n number	r
4		100 Hou												twice for	functio	n 2, Sem	ıi
1	1	Disabled*	2	Enabled								3.		LED will	flash t	ack the	s
9	=	Restore	Fa	ctory Def	faul	lts								sec). To	chang	e setting,	
1		Maintain Cu				Restore Def	aults	6						3 times. sequence			
17	_	Second		Zono Dir	nm	ing Offse	4							·			
1		-100%	al y 6	-50%		0% *		50%	21	100%	4	4.		Press but table for t			
2	-	-90%	7	-40%		10%	17	60%	21	100 /8				setting ch			
3		-80%	8	-30%		20%		70%						octang on	lunge,		
4		-70%	9	-20%		30%		80%								*	Ì
Ę	5	-60%	10	-10%	15	40%	20	90%				B-I	LE	VEL D	ΕΤΑΙ	LED F	ι
20	=	LED Ope	ra	tion										Name			
1		Normal*	2	Inhibited (Di	isahl	ed)							1			3	ï
												2	2	2	4	4	
				right Lev		500/	-	700/	•	000/		2	=	Semi-	Διιτο	Grace	
1		10% 20%	3 4	30% 40%	5 6	50% 60%	/ 8	70% 80%	9 10	90% 100%*				0 sec		15 sec*	
-	-		-		-	00%	0	00 %	10	100 %				Predic			
24				l Dim Lev	/el							1		5 sec		7 sec	ľ
1		10%*	3	30%	5	50%	7	70%	9	90%		2		6 sec	-	8 sec	
2	2	20%	4	40%	6	60%	8	80%	10	100%		л ⁻		Predic			
26	=	Follow F	hc	tocell Mo	ode									0 sec	uve	3 10 s	

Disable* 2 Enabled (- only) 3 Enabled +/- (default for all nEPP5- units)

^{*}Indicates Factory Default

= Predictive Grace Time 1 0 sec **3** 10 2 5 sec*

11 = Occupancy Trac 2 Enable* 1 Disable

3-LEVEL PROGRAMMING INSTRUCTIONS _____ PLEASE READ ALL 4 STEPS BEFORE PROGRAMMING

Enter B-Level programming mode by holding down button until LED flashes rapidly, release, hold down until rapid flash again, release, then immediately enter programming function as described in step 2.

Enter a programming function by pressing button the number of times as the desired function number from the table labeled B-Level Functions (e.g., press twice for function 2. Semi-Auto Grace Period).

LED will flash back the selected function's current setting (e.g., 3 flashes for 15 sec). To change setting, proceed to step 3 before flash back sequence repeats 3 times. To exit the current function or to change to a different function, wait for sequence to repeat 3 times then return to step 1.

Press button the number of times indicated in the particular function's detailed table for the NEW desired setting (e.g., press 1 time for 0 sec). As confirmation of setting change, LED flashes back the NEW setting 3 times before exiting.

10 Unassigned*

	*Indicates Factory Default												
-LI	-LEVEL DETAILED FUNCTION TABLES												
	= Name Unit w/ Number												
1	1 1 3 3 5 5 7 7 9 9												
2	2 2 4 4 6 6 8 8 10 Unassigned*												

= Semi-Auto Grace Period

= Predictive Exit Time

5	9 sec	7	15 sec	9	30 sec	
6	10 sec*	8	20 sec			

sec	5	30 sec	7	50	sec	
sec	6	40 sec	8	60	sec	
cking						

12 = Occupancy Tracking Channel
1 - 16 (e.g., 1 = Channel 1*; 2 = Channel 2; etc.)
13 = Photocell Tracking
1 Disable 2 Enable*
14 = Photocell Tracking Channel
1 - 16 (e.g., 1 = Channel 1*; 2 = Channel 2; etc.)
15 = Switch Tracking
1 Disable 2 Enable*
16 = Switch Tracking Channel
1 - 16 (e.g., 1 = Channel 1*; 2 = Channel 2; etc.)
17 = Override (Relay / Dimming)
1 Disabled (not forced)* 2 Override On 3 Override Off
18 = Special Operating Mode
1 Normal* 4 Manual to Full Auto 7 Manual to Norm
2 Manual On 5 Predictive Off
3 Auto to Override On 6 Manual to Override On
19 = Invert Relay Logic
1 Normal Logic* 2 Inverse Logic
21 = WallPod Dimming Adjustments
1 Permanent* 2 Temporary 3 Photocell Temporary Override
22 = Infinite Dimming Time Delay
1 Disable* 2 Enable
23 = Special Switch Tracking Mode
1 Disable* 2 Ignore Offs 3 Ignore Ons 4 Ignore Ons & O
26 = PCD Frequency
1 60 HZ* 2 50 HZ

27 = Relay Al	ways On	
1 No*	2 Yes	
28 = Dimming	g Always On	
1 No*	2 Yes	
29 = Occupar	ncy Expiration of Manual Off	
1 Disable*	2 Enable	
30 = Timed Ex	xpiration of Manual Off	
1 Disable*	2 Enable	

0-10V Option Devices

31 = High End Trim (0-10V option devices)

	1	.7V	4	3V	7	6V		10	9V
	2	1V	5	4V	8	7V		11	10V*
	3	2V	6	5V	9	8V			
32	2 =	Low End	Trin	1 (0-10V	opti	on	devices)		
32		.7V		ו (0-10V 3V		0 1	devices)	10	9V
32	1		4		7		devices)		9V 10V
32	1 2	.7V	4 5	3V	7 8	6V	devices)		

PCD Option Devices

31 = High End Trim (PCD option devices)

1	10V	4	40V	7	70V	10	100V
2	20V	5	50V	8	80V	11	110V
3	30V	6	60V	9	90V	12	120V

32 = Low End Trim (PCD option devices)

1	10V	4	40V	7	70V	<u>í</u> 10	100V
2	20V	5	50V	8	80V	11	110V
3	30V	6	60V	9	90V	12	120V

A-LEVEL FUNCTION DEFINITIONS

1 BUTTON MODE

Enables the push-button to toggle the device's relay

3 IDLE TIME UNTIL DIM

The length of time after last detected occupancy that a dimming output will reduce lighting to Unoccupied Dim Level setting

4 100 HOUR BURN-IN

Overrides relay on and/or dimming output to full bright (typically for lamp seasoning

9 RESTORE FACTORY DEFAULTS

Returns all functions to original settings

17 SECONDARY ZONE DIMMING OFFSET

Percentage voltage difference of unit's dimming output from primary dimming output (Function 26, Follow Photocell Mode, must be enabled)

20 LED OPERATION

Indicates behavior of device's status LED

23 OCCUPIED BRIGHT LEVEL

The percentage of the controllable dimming range that the dimming output rises to when occupancy is detected. Setting is not applicable if *Follow* Photocell Mode is enabled. Note: Adjusting the dim level using a WallPod changes this setting when Follow Photocell Mode is disabled.

24 UNOCCUPIED DIM LEVEL

The percentage of the controllable dimming range that a dimming output drops the lights to after the Idle Time Until Dim timer expires

26 FOLLOW PHOTOCELL MODE

Directs how a device's dimming output reacts relative to a photocell (ADC)

B-LEVEL FUNCTION DEFINITIONS

NAME UNIT w/ NUMBER Applies a number to the default name visible in SensorView

SEMI-AUTO GRACE PERIOD The time period after lights are automatically turned off that they can be reactivated with movement

PREDICTIVE EXIT TIME (valid for Predictive Off mode only) The time period after manually switching lights off for the occupant to leave the space

4 PREDICTIVE GRACE TIME (valid for *Predictive Off* mode only) The time period after the Predictive Exit Time that the sensor rescans the room for remaining occupants

11 OCCUPANCY TRACKING

Indicates whether a device's relay and/or dimming output will react to occupancy information

12 OCCUPANCY TRACKING CHANNEL

The local channel on which a device's relay and/or dimming output receives occupancy information

13 PHOTOCELL TRACKING

Indicates whether a device's relay and/or dimming output will react to photocell information

14 PHOTOCELL TRACKING CHANNEL

The local channel on which a device's relay and/or dimming output receives photocell information

15 SWITCH TRACKING

Indicates whether a device's relay and/or dimming output will react to switch information

6 SWITCH TRACKING CHANNEL

The local channel on which a device's relay and/or dimming output receives switch information

17 OVERRIDE (RELAY / DIMMING)

Indicates whether a device's relay is forced on/off and/or dimming output is forced to max/mir

18 SPECIAL OPERATING MODE Unique defined behaviors of relays and/or dimming outputs

NORMAI

Operating Mode where occupancy sensors are capable of turning lights both on/off

AUTO TO OVERRIDE ON

Special Mode where lights are turned on initially by occupant detection but then left in the Override On state

MANUAL ON TO FULL AUTO

Special Mode that initially requires the occupant to manually turn on the lights, after which the sensor assumes full on/off control

SEMI-AUTO (MANUAL ON)

Special Mode that always requires the occupant to manually turn the lights on, while having them turn off automatically by a sensor

PREDICTIVE OFF

When lights are switched off this Special Mode determines whether occupants remained or left the room, so as to leave the lights in either the Override Off or Auto On state

MANUAL TO TIMED OVERRIDE ON

Special Mode where lights are initially turned on manually but remain in the Override On state for a pre-determined period (Timed Override Delav)

MANUAL TO NORMAL

Special Mode where lights are initially turned on manually but remain in the Normal State (enabling auto-dimming) for a pre-determined period (Timed Override Delav)

19 INVERT RELAY LOGIC

Reverses functionality of relavs

21 WALLPOD DIMMING ADJUSTMENTS

Defines whether user dimming adjustments are maintained after lights are cycled, whether they revert to default levels, or whether they temporarily disable a connected dimming photocell (until lights cycle)

22 INFINITE DIMMING TIME DELAY

When enabled, lights will remain at the Low Dimming Range level after a sensor's Idle Time Until Dim timer expires instead of turning off after the sensor's Occupancy Time Delav expires

23 SPECIAL SWITCH TRACKING MODE

26 PCD FREQUENCY

Defines the frequency of the signal being dimmed

27 RELAY ALWAYS ON

Forces relay to stay closed even in off state

28 DIMMING AI WAYS ON

Maintains unoccupied dim level when in off state. Does not affect relay.

29 OCCUPANCY EXPIRATION OF MANUAL OFF

When enabled, operation of device will revert from a push-button triggered override off state to Normal mode once the Occupancy Time Delay (adjustable via SensorView or push-button) expires. Not used with Manual On operating modes.

30 TIMED EXPIRATION OF MANUAL OFF

When enabled, operation of device will revert from a push-button triggered override off state to Normal mode once the Timed Override Delay (adjustable via SensorView) expires. Not used with Manual On operating modes.

Defines unique behavior related to how relays respond to particular switch information

31 HIGH END TRIM

Maximum voltage level of the device's dimming output. Commonly used for task tuning where absolute light level is not to be increased via a Wallpod or scene. When output is at high end trim, the reported control percentage will be 100%. Corresponding lumen output % is dependent on ballast/driver capabilities

32 LOW END TRIM

Minimum voltage level of the device's active dimming range. Level can not be reduced via a WallPod or scene. When output is at low end trim, the reported control percentage will be 1%. Corresponding lumen output % is dependent on ballast/driver capabilities

NOTE

All settings can be configured via SensorView software.

AcuityControls

nLight



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