

APPLICATION NOTE

SHARING INTELLIGENT SOLUTIONS

KEY WORDS: Multi Sensor

Title:	Combining Multi Sensor And Neo Functions
Products Applicable:	Multi Sensor & NEO

1. Neo function:

While there are no physical buttons on Multi Sensor the remote device (e.g. 5038TX) can be used to activate the functions in a similar way to a Neo Switch.

The configuration is shown below.

Global

Remote Control Offset

Virtual Key 1 : On

SENPILL - Unit in Database at Address 2 (Network not open)

Virtual Key 1 Group Function

Group 1 On

Virtual Key 3 Group Function


Group 2 On/Off

Virtual Key 5 Group Function

Group 4 Preset 1

Virtual Key 7 Scene Function

Scene 1 <Scene>



Virtual Key 2 Group Function

Group 1 Off

Virtual Key 4 Group Function

Group 3 Dimmer

Virtual Key 6 Group Function

Group 5 Preset 2

Virtual Key 8 Scene Function

Scene 2 <Scene>

Unit Identification | **Global** | Light Level | Bank Switch | Occupancy | Environment | Power Fail | Key Functions | Blocks | Scenes | C-Bus Status

Block Assignments		Recall Levels		Timer	Expiry	Keys using Block								LED Assignment							
	Group	Recall 1	Recall 2	Timer 1		1	2	3	4	5	6	7	8	1							
Block 1	Group 1	100%	0%	0h0m0s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Block 2	<Unused>	100%	0%	0h5m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Block 3	Group 2	100%	0%	0h5m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Block 4	Group 3	100%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Block 5	Group 4	30%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Block 6	Group 5	100%	70%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Block 7	<Unused>	100%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Block 8	<Unused>	100%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								

OK Cancel Apply

This settings allows the: -

1. button 1 controls the Group 1 with “**On**” function.
2. button 2 controls the Group 1 with “**Off**” function.
3. button 3 controls the Group 2 with “**On/Off**” function.
4. button 4 controls the Group 3 with “**Dimmer**” function.
5. button 5 controls the Group 4 with “**Preset 1**” function.
6. button 6 controls the Group 5 with “**Preset 2**” function.
7. button 7 triggers the ‘**Scene 1**’ as an Off scene for Group 1 Group 2 and Group3.
8. button 8 triggers the ‘**Scene 2**’ as an On scene for Group 1 Group 2 and Group3.

2. PIR function:

PIR function controls Multiple Group Addresses with different timer.

The configuration is shown below

SENPIII - Unit in Database at Address 2 (Network not open)

Virtual Key 1 Group: <Multiple> Function: PIR Day Move

Virtual Key 2 Group: <Multiple> Function: PIR Night Move

Virtual Key 3 Group: <Unassigned> Function: Unused

Virtual Key 4 Group: <Unassigned> Function: Unused

Virtual Key 5 Group: <Unassigned> Function: Unused

Virtual Key 6 Group: <Unassigned> Function: Unused

Virtual Key 7 Group: <Unassigned> Function: Unused

Virtual Key 8 Group: <Unassigned> Function: Unused

Unit Identification | Global | Light Level | Bank Switch | **Occupancy** | Environment | Power Fail | Key Functions | Blocks | Scenes | C-Bus Status

Occupancy Enable/Disable: Group: <Unassigned> + / - Enables / Disables

Assign Occupancy (PIR) Events to Virtual Keys

Key	Groups	Light & Movement	Dark & Movement	Sunset
1	Group 1;Group 2;Group 3;Group 4;Group 5;Group 6;Group 7;G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Group 1;Group 2;Group 3;Group 4;Group 5;Group 6;Group 7;G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reset to default configuration Reset

OK Cancel Apply

Unit Identification | Global | Light Level | Bank Switch | **Occupancy** | Environment | Power Fail | **Key Functions** | Blocks | Scenes | C-Bus Status

	Key 1	Key 2	Key 3	Key 4	Key 5	Key 6	Key 7	Key 8
Short Press	Retrigger Timer	On Key	Idle	Idle	Idle	Idle	Idle	Idle
Short Release	Idle	Retrigger Timer	Idle	Idle	Idle	Idle	Idle	Idle
Long Press	Idle	Retrigger Timer	Idle	Idle	Idle	Idle	Idle	Idle
Long Release	Idle	Idle	Idle	Idle	Idle	Idle	Idle	Idle

PIR default function

Unit Identification Global Light Level Bank Switch Occupancy Environment Power Fail Key Functions Blocks Scenes C-Bus Status																		
Block Assignments			Recall Levels		Timer		Keys using Block								LED Assignment			
	Group		Recall 1	Recall 2	Timer 1	Expiry	1	2	3	4	5	6	7	8	1			
Block 1	Group 1		100%	0%	0h0m5s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/>			
Block 2	Group 2		100%	0%	0h0m10s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			
Block 3	Group 3		100%	0%	0h0m15s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			
Block 4	Group 4		100%	0%	0h0m20s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			
Block 5	Group 5		100%	0%	0h0m25s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			
Block 6	Group 6		100%	0%	0h0m30s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			
Block 7	Group 7		100%	0%	0h0m35s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			
Block 8	Group 8		100%	0%	0h0m40s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>			


3. Neo function and PIR function combination:

1. PIR function controls Multiple Group Addresses (Group 1, Group 2 and Group 3) with different timer.
2. Neo function controls four Group Addresses with offsetting to 3.

The configuration is shown below:

SENPILL - Unit in Database at Address 2 (Network not open)

Virtual Key 1 Group ☒ Function
Virtual Key 2 Group ☒ Function
Virtual Key 3 Group ☒ Function
Virtual Key 4 Group ☒ Function
Virtual Key 5 Group ☒ Function
Virtual Key 6 Group ☒ Function
Virtual Key 7 Group ☒ Function
Virtual Key 8 Group ☒ Function



Unit Identification | **Global** | Light Level | Bank Switch | Occupancy | Environment | Power Fail | Key Functions | **Blocks** | Scenes | C-Bus Status

Timing parameters
Ramp 1: 4 secs
Ramp 2: 12 secs
Status report: 3 secs
Learn mode
Allow Current Application Learn: ☒
Allow Any Application Learn: ☒
Unit Has Learned: ☐



Potentiometer 'A'
Function: Light Level & Sunset Adjust
Block: 1: Group 1
Potentiometer 'B'
Function: Occupancy Sensitivity Adjust
Block: 1: Group 1

Infra-red Settings
Bank Selection: ☒ Bank AB ☐ Bank CD ☐ Disabled
Remote Control Offset
Virtual Key: 3: On/Off
☐ Control Light Level Sensor (PE Cell)
☐ Control Occupancy Sensor (PIR)

The Virtual Key 1 & 2 are reserved for PIR function
The remote control 5038TX starts the controlling from the Virtual Key 3

OK Cancel Apply

Unit Identification | Global | Light Level | Bank Switch | Occupancy | Environment | Power Fail | Key Functions | Blocks | Scenes | C-Bus Status

Occupancy Enable/Disable
Group: <Unused>  

PIR functions assigned to Keys 1 and 2.

Assign Occupancy (PIR) Events to Virtual Keys

Key	Groups	Light & Movement	Dark & Movement	Sunset
1	Group 1, Group 2, Group 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Group 1, Group 2, Group 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Group 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Group 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Group 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Group 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Unit Identification | Global | Light Level | Bank Switch | Occupancy | Environment | Power Fail | Key Functions | Blocks | Scenes | C-Bus Status

	Key 1	Key 2	Key 3	Key 4	Key 5	Key 6	Key 7	Key 8
Short Press	Retrigger Timer	On Key	Toggle	Idle	Toggle	Idle	Idle	Idle
Short Release	Idle	Retrigger Timer	Idle	Toggle	Retrigger Timer	Recall 1	Idle	Idle
Long Press	Idle	Retrigger Timer	Idle	Downcycle	Idle	Ramp Off	Idle	Idle
Long Release	Idle	Idle	Idle	End Ramp	Retrigger Timer	Idle	Idle	Idle

PIR Day Move
PIR Night Move
On/Off
Dimmer
Timer
Preset 1
Unused
Unused

Unit Identification | Global | Light Level | Bank Switch | Occupancy | Environment | Power Fail | Key Functions | Blocks | Scenes | C-Bus Status

Block Assignments		Recall Levels		Timer		Keys using Block								LED Assignment				
	Group	Recall 1	Recall 2	Timer 1	Expiry	1	2	3	4	5	6	7	8	1				
Block 1	Group 1	100%	0%	0h0m5s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Block 2	Group 2	100%	0%	0h0m10s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Block 3	Group 3	100%	0%	0h0m15s	Off Key	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Block 4	Group 4	100%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Block 5	Group 5	100%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Block 6	Group 6	100%	0%	0h0m30s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Block 7	Group 7	60%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Block 8	<Unused>	100%	0%	0h0m0s	Off Key	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Compatible C-Bus Remotes:

- 5034TX is with Bank A (Refer to Bank AB selection)
- 5034TX12 is with Banks AB, Bank C (refer to Bank CD selection)
- 5038TX is with Banks AB
- 5084TX is with Bank A
- 5088TX is with Banks AB, CD.

Technical Support and Troubleshooting

For technical assistance call: 1300 722 247 (Australia)
0800 888 219 (New Zealand)

CIS web site: <http://www.clipsal.com/cis/>

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