

Lighting Requirements

	Item	Requirement
1	Light outside Front Door	To be lit by presence when dark
		To be extinguished by absence after a configurable amount of time
		Not to be extinguished by the Front or Back Door Light Switch
		Alternatively controlled by Smart Control
2	Outside Presence Switch	Detect presence of person entering property from configurable distance
		Adjustable distance setting
3	Outside Light detector	Detect outside light level
		Provide light level signal, so light switching can be determined.
4	Front Door Bell/Camera	Camera activated by outside presence switch
	For future enhancement	Camera to be activated by Smart Control to allow adhoc viewing
		Camera to have intercom facility to connect with dedicated phones/TV.
		Door Bell to ring!
5	Lobby Light	To be lit by presence when dark
		To be extinguished by absence after a configurable amount of time
		Not to be extinguished by the Front or Back Door Light Switch
		Alternatively controlled by Smart Control
6	Lobby Presence Switch	Detect presence of person in lobby entering/exiting both front and lounge doors
		Adjustable distance setting
7	Cloakroom Light	To be lit by presence when dark
		To be extinguished by absence after a configurable amount of time
		Alternatively controlled by Smart Control
8	Cloakroom Fan	To be enabled by presence
		To be disabled by absence after a configurable amount of time
		Alternatively controlled by Smart Control
9	Cloakroom Presence Switch	Detect presence of person in cloakroom
		Adjustable distance setting
10	Front Door Light Switch	To extinguish all lights under smart control
		To light predefined lighting scenes

11	Lounge Lights	Ceiling lights to be dimmerable (no colour)
		Wall lights to be dimmerable (no colour)
		Ceiling light and Wall lights to be controlled separately
		Each Wall Light to be separately controlled
		LED lights behind the TV to be dimmerable and coloured
		Light level of Ceiling Lights to be set by Lounge Switch 1 & 2, Smart Control and be part of the predefined scenes
		Light level of Wall Lights to be set by Lounge Switch 1 & 2, Smart Control and be part of the predefined scenes
		Light level of TV LEDs to be set by Smart Control and be part of the predefined scenes
		Ceiling Lights to be lit by Lounge Switch 1 & 2, Smart Control and Lobby Presence Switch & Lounge Presence Switch(only when dark)
		Wall Lights to be lit by Lounge Switch 1 & 2 and Smart Control and Lobby Presence Switch & Lounge Presence Switch (only when dark)
		TV LEDs to be lit by Smart Control and Lobby Presence Switch & Lounge Presence Switch (only when dark)
		All Lounge lights to be extinguished by the Front Door and Back Door Switches and by Lounge Switch 1 & 2 and by Smart Control
12	Lounge Switch 1	To light, set light level (dimmer) and extinguish Ceiling Lights
	(By cloakroom entrance)	To light, set light level (dimmer) and extinguish Wall Lights
13	Lounge Switch 2	To light, set light level (dimmer) and extinguish Ceiling Lights
	(By bifold doors)	To light, set light level (dimmer) and extinguish Wall Lights
		To light, set light level (dimmer & colour) and extinguish for Back Garden Lights
14	Lounge Presence Switch	Detect presence of person in entering lounge from bifold doors
15	Back Garden Lights	Back Garden lights (LEDs) to be dimmerable and coloured
	Can Colour LEDs be under dimmer/light level control?	Light level of Back Garden Lights to be set by Lounge Switch 2, Smart Control and be part of the predefined scenes
		Back Garden lights to be lit by Lounge Switch 2 and Smart Control
		Back Garden lights to be extinguished by the Front Door and Back Door Switches and by Lounge Switch 2 and by Smart Control

16	Kitchen Lights	Ceiling lights to be dimmerable
		Under-unit LEDs to be dimmerable and coloured
		Light level of Ceiling Lights to be set by Back Door Switch, Smart Control and be part of the predefined scenes
		Light level of Under-unit LEDs to be set by Back Door Switch, Smart Control and be part of the predefined scenes
		Ceiling Lights to be lit by Back Door Switch, Smart Control and Kitchen Presence Switch(only when dark)
		Under-unit Lights to be lit by Back Door Switch, Smart Control and Kitchen Presence Switch(only when dark)
		All Kitchen lights to be extinguished by the Front Door and Back Door Switches, Smart Control and by absence after a configure amount of time(if lit by Presence Switch)
17	Kitchen Extractor Fan	To be enabled by Kitchen Extraction switch and smoke detector
		Alternatively controlled by Smart Control
18	Kitchen Extractor Switch	To control speed of speed extraction of the Kitchen Extractor Fan
19	Smoke Detector	To detect the smoke/steam level and provide so switching can be configured
20	Dining Room Lights	Ceiling LEDs to be dimmerable
		Over-Table Light to be dimmerable
		Light level of Ceiling Lights to be set by Back Door Switch, Smart Control and be part of the predefined scenes
		Light level of Over-Table Light to be set by Back Door Switch, Smart Control and be part of the predefined scenes
		Ceiling Lights to be lit by Back Door Switch, Smart Control and Dining Room Presence Switch(only when dark)
		Over-Table Light to be lit by Back Door Switch and Smart Control
		All Dining Room lights to be extinguished by the Front Door and Back Door Switches, Smart Control and by absence after a configure amount of time(if lit by Presence Switch)
21	Back Door Light Switch	To extinguish all lights under smart control
	Location by floor drop??	To light, set light level (dimmer) and extinguish Kitchen Ceiling Lights
		To light, set light level (dimmer) and extinguish Dining Room Lights
22	Kitchen Presence switch	Detect presence of person in kitchen and by back door
		Adjustable distance setting
23	Dining Room Presence switch	Detect presence of person in Dining Room and by back door
		Adjustable distance setting
24	Stairway and Landing	Stair LEDs and Landing Light to be lit by presence
		Alternatively controlled by Smart Control
		To be extinguished by absence after a period of time
		To be extinguished by the Front Door Light Switch and Back Door Switch

25	Stairway Presence switch(es)	Detect presence in Stairway, mid landing and upper landing areas
		Adjustable distance settings (maybe two detectors required)
26	Landing Smoke Detector	Smoke Detector to be permanently fed.

27	Ensuite Lights	Ceiling LEDs not to be dimmerable or coloured (incl shower area)
		Under-cabinet LEDs not to be dimmerable or coloured
		Ceiling LEDs and Under-cabinet LEDs to be lit by presence
		To be extinguished by absence after a configurable amount of time
		Alternatively controlled by Smart Control
28	Ensuite Fan	To be enabled/disabled by humidity level detected by Humidity Sensor
		Alternatively controlled by Smart Control
29	Ensuite Presence switch	Detect presence of person in Ensuite
		Adjustable distance settings
30	Humidity Sensor	To detect the humidity level
		Provide humidity level signal, so switching can be configured.
31	Ensuite Shaver Socket	To be permanently fed.
32	Main Bedroom Lights	Ceiling lights to be dimmerable (no colour)
		Bedside lights to be dimmerable (no colour)
		Ceiling light and each bedside light to be controlled separately
		Light level of Ceiling Lights to be set by Main Bedroom Switch, Smart Control and be part of the predefined scenes
		Light level of Bedside Lights to be set by Bedside switch, Smart Control and be part of the predefined scenes
		Ceiling Lights to be lit by Main Bedroom Switch, Bedside switch and Smart Control
		Bedside Lights to be lit by Main Bedroom Switch, Bedside switch and Smart Control
		All Main Bedroom lights to be extinguished by Main Bedroom Switch, Bedside switch, Front Door and Back Door Switches and by Smart Control
33	Main Bedroom Switch	To light, set light level (dimmer) and extinguish Ceiling Lights
		To light, set light level (dimmer) and extinguish Bedside Lights
34	Bedside Light switch(es)	To light and extinguish Ceiling Lights
		To light, set light level (dimmer) and extinguish Bedside Lights
35	Nursery Lights	Nursery Lights to be dimmerable (no colour)
		Light level of Nursery Lights to be set by Nursery Switch, Smart Control and be part of the predefined scenes
		Nursery Lights to be lit by Nursery Switch and Smart Control
		Nursery lights to be extinguished by Nursery Switch, Front Door and Back Door Switches and by Smart Control
36	Nursery Light Switch	To light, set light level (dimmer) and extinguish Nursery Lights

37	Guest Bathroom Light	Guest Bathroom Light not to be dimmerable or coloured
		Light to be lit by Guest Bathroom switch or by Smart Control
		Guest Bathroom Light to be extinguished by the Guest Bathroom switch and Front Door and Back Door Switches and by Smart Control
38	Guest Bathroom Fan	To be enabled/disabled by humidity level detected by Humidity Sensor
		Alternatively controlled by Smart Control
39	Guest Bathroom switch	To light and extinguish Guest Bathroom Light
		Adjustable distance setting
40	Humidity Sensor	To detect the humidity level
		Provide humidity level signal, so switching can be configured.
41	Guest Bathroom Shaver Socket	To be permanently fed.
42	Front Guest bedroom Lights	Front Guest Bedroom Light not to be dimmerable or coloured
		To be lit by Front Guest bedroom switch or by Smart Control
		To be extinguished by Front Guest bedroom switch and Front Door Light Switch and Back Door Switch and by Smart Control
43	Front Guest bedroom switch	To light and extinguish Front Guest bedroom Lights
44	Back Guest bedroom Lights	Back Guest Bedroom Light not to be dimmerable or coloured
		To be lit by Back Guest bedroom switch and by Smart Control
		To be extinguished by Back Guest bedroom switch and Front Door Light Switch and Back Door Switch and by Smart Control
45	Back Guest bedroom switch	To light and extinguish Back Guest bedroom Lights
	Non Functional Requirements	Consistent appearance of switching devices Availability of 99% Device and App Respond time <1sec
	Definitions:	
	Smart Control	Central control system that enables the control of devices through smartphone app and configurable switches/controllers. Using Scene Settings and having ability for voice activation.