CONTROL PANEL - INSTALLATION GUIDE

BOX CONTENT	REQUIRED TOOLS
- Luminell Control Panel - Tape Labelling sheet - Installation guide - Recyclable cardboard	- Electrician's screwdriver (slot) - Wire stripper 4x Bolt for panel mounting (Ø4mm)

CONNECTION AND SETTINGS

The Control Panel is intended to be used for all Luminell products including, floodlights, searchlights and bowlights. It is built around the use of resistance where DIP switches change the maximum resistance on each section. This ensures optimal sensitivity of each rotary potentiometer, regardless of how many connected lights. It is only to be installed in a professional and legal manner by qualified personal.

TERMINALS

Extra functions and features (7-12)	Terminal illustration		Standard connections (1-6)
Sec.1 external/remote input (must be shorted when not in use)	7	1	Ground (-)
	8	2	24VDC (+). For button illumination
Sec.2 external/remote input (must be shorted when not in use)	9	3	Sec.1 output
	10	4	
Aux output. Pot.free contact (NO): Local switch OFF = contact open Local switch ON = contact closed (Cannot be combined with "external/remote Input")	11	5	Sec.2 output
	12	6	

ON/OFF SWITCH BUTTON LIGHT

The power input is only used to illuminate the blue ON/OFF switch. It can be supplied with both AC or DC up to 30V. On AC supplies the polarity does not matter, if DC is used and there is no light, then the polarity is incorrect. The switch backlight can be dimmed using the smaller rotary knop next to the switch button.

EXTERNAL INPUTS FOR REMOTE CONTROL

External inputs can be used to remotely control the lights connected to the control panel. The remote switch must be of type NC (normally-closed). It is important to be aware of that the external inputs only functions when the ON/OFF switch on the panel is in OFF position (not pushed down). When the switch is in the ON-position, the remote inputs are bypassed. Section 1 and 2 can be controlled by separate external switches, or by a common one if both sections are intended to illuminate at once.

NOTE: If the AUX output is used to cut the main power supply(standby), then it is not possible to control the lights using the external/remote inputs, because the main power supply then only will be available when the local switch on the control panel is ON.

AUX OUTPUT

The aux output is a normally open (NO) potential-free contact that changes state when the on/off-switch on the panel is operated. This output can, in combination with a relay, be used to cut the main power supply to the controlled light.

DIP SWITCH SETTING

"Ch. 1-3" is set to match the total amount of sections/lights which are parallel connected together, and shall be controlled by the applicable control panel. Figure 2 shows how the DIP switches shall be set for different amounts of parallel connected sections/lights:
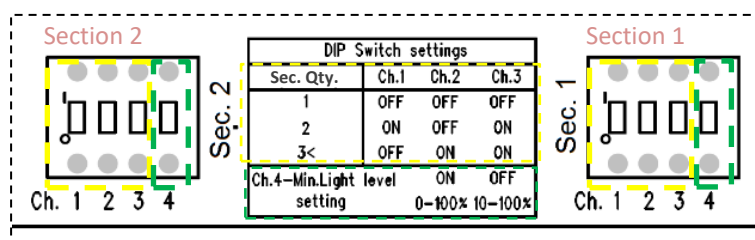

Figure 2 DIP switch settings, section 1 and 2, on PCB

Note: If 5 or 6 sections are connected together, all Ch. 1-3 should be ON.

"Ch. 4" on each DIP-switch will determine if the section can turn completely OFF or if it goes to minimum light output. It is important to be aware of this function, if it is changed during installation. By default, section 1 can go to 0% and section 2 to 10%. This will ensure that the operator always will get at least 10% light when pushing the ON/OFF switch button, and thereby avoids to be confused about several places where the light can be turned completely ON or OFF. For the RLX Bowlight it is recommended that only the Oval section can be turned OFF by the potentiometer.

DIMENSIONS AND CUTOUT

Recommended cutout for console flush mount is 80x80mm. Depth included terminals are 70mm. Front and rear view:
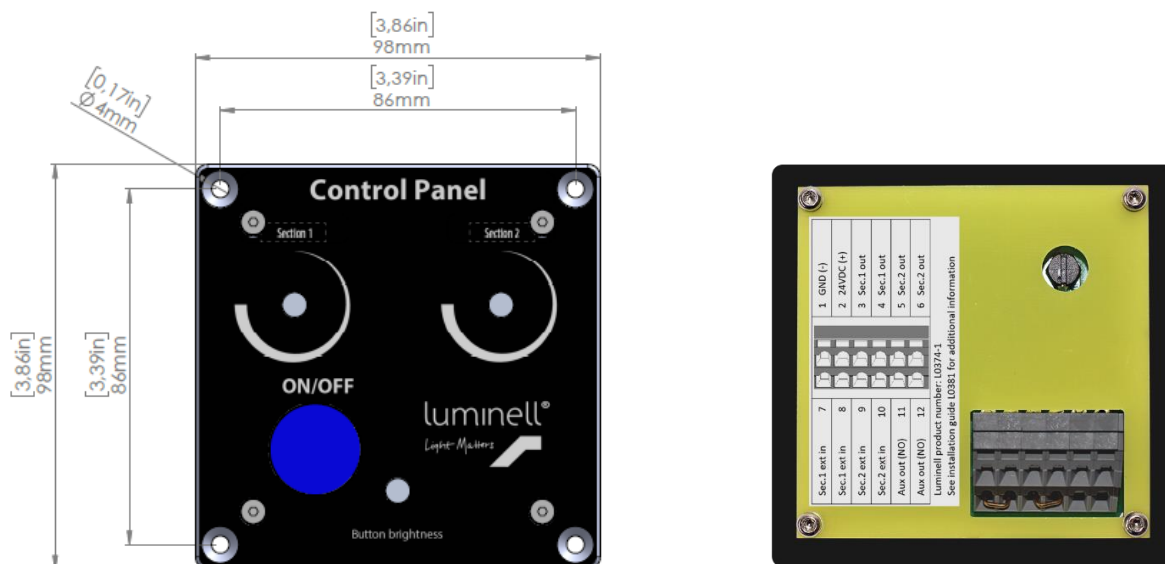
GENERAL LUMINELL DIM CONTROL

Each section/product can be dimmed either by a 0–10 VDC voltage controller or by resistance <50 kΩ. The RLX C and E standard 110/230VAC floodlights uses <100kΩ as 100%, therefore at least two floodlights of these models must be connected together.

The resistance needs to be reduced if more sections or products are controlled together, see beneath. When using a 0-10V control signal and connecting more channels together, then 10V will always be 100%.

DIM control connection using resistance/potentiometer:

No. of sections/products parallel connected	1x	2x	4x	6x
Max resistance for 100%	>50kΩ	>25kΩ	>15kΩ	>6kΩ

If the Dim control is not used or connected the light output will be 100%

If the Control panel is used for dim control on the RLX Floodlights 100-277VAC series, then it is not possible to turn OFF the lights by using this button. "OFF" position will cause the lights to be dimmed to minimum, about 5% light output. In this case an "OFF/min." label should be placed to cover the existing text.

TAPE LABELING SHEET

The control panel is by default compatible with most Luminell products. With the label sheet enclosed with the panel, it is possible to customize the panel to fit each installation. The beam type of each section is specified in the product description following the product. The colour codes in the table and figure below, indicates where the different labels may be attached to suit the application:

Label	Comment
Spot 4	Only for SLX searchlight modules
Spot 6+	Only for SLX searchlight modules
Spot	For Bowlight spot
Oval	Oval horizontal beam angle
Spot+Oval	Used when Spot and Oval are combined in one section as on the "C" series
Not in use	If only one section on the control panel is used
Bowlight	Control Panel Headline
Searchlight	Control Panel Headline
Floodlight	Control Panel Headline
ON/min.	To replace existing "ON/OFF" when the control panel is used for VAC RLX floodlights