

These instructions apply to standard SX1 and SX2 controllers, which are used with SL8P or PP detectors. Setsquare recommend all installations are carried out by a suitably qualified electrician and the instructions are followed. Failure to do so may lead to damage to either the circuits or installer.

Unit Description.

The SensalUX is an automatic light switching system which operates by measuring light level in selected areas. The system comprises control and switching unit, lightlevel detectors PP or SL8P.

The photocell should be mounted in an area representative of the ambient light level, not in direct sunlight.

The DUO controller has two relays enabling two loads to be switched.

When using the photocell, each relay can be switched ON and OFF at different light levels from the Dual relay controller.

Mounting (PP & SL8P)

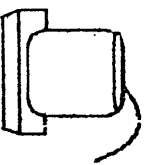
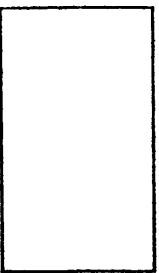
Recessed (PP)

Drill a 38mm dia hole into the ceiling, the head is held in place by the metal spring.

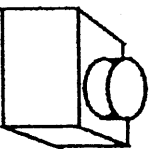
Surface

The PP head can be surface mounted using part SB, which is a single gang back box and front plate with 38mm hole.

Alternatively use the weatherproof SL8P.



PP



SL8P

Location

The PP sensor is designed to be recessed into a ceiling tile, the SL8P can be surface mounted.

Electrical Connection.

Important:

A. If switching a contactor, please contact Setsquare. (01732 851888)

B. A link (removable) is on the circuit board which connects the Live to Com A, if a volt free contact is required, remove the link (1) see circuit diagram.

1 Wiring to detectors should be with 2-core overall screened cable (DSC100).

2. You can retain the existing light switch as an over-ride off switch, positioned;

- a) Between the live and the controller or
- b) Between the controller and the load.

Commissioning.

1. Wire as per the diagram.
2. Select the chosen OFF delay/s.
3. Switch on mains supply.
4. Lights will switch on 30 seconds after chosen light level is detected and remain on, as long as the ambient light level measured remains below the chosen level.
5. Once it is brighter than the chosen level, the lights will go off after the chosen time delay.

Photocell Settings

Important : The photocell is easiest to set up when lights are required to switch on ie when it is dull.

1. Turn dials on front of control unit fully anti-clockwise.

2. Turn the ON control until the green LED glows.

(The yellow LED may flash) This is the level at which lights will come on, however this will only activate after 30 seconds as

there is a buffer to stop short dull spells making the lights flash on and off.



3. When the lights come on turn the OFF control until the yellow LED stops flashing and remains ON, then turn clockwise the equivalent of 1 hour on a clockface. This ensures the OFF level is higher than that created by the lights. The OFF level should always be greater than the ON level, if not, the LED's will flash.

4. DUO Controller Repeat as above for the second channel. On the dual relay controller, channel A comes first, so the circuit under control A should be furthest from the window. Channel B should be the circuit nearest the window.

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Delay before OFF

Lights will switch off when it is bright enough for a chosen time period, between 2 and 16 minutes.

Set the Lights OFF delay to the required level as per the charts opposite. Channel B only applies if using a dual relay Sensor-LUX.

Channel A Time Delays / Switch positions		
2 Minutes	1 off	2 off
4 Minutes	1 off	2 on
8 Minutes	1 on	2 off
16 Minutes	1 on	2 on

Channel B Time Delays / Switch positions			
2 Minutes	3 off	4 off	
4 Minutes	3 off	4 on	
8 Minutes	3 on	4 off	
16 Minutes	3 on	4 on	

Wiring Diagram

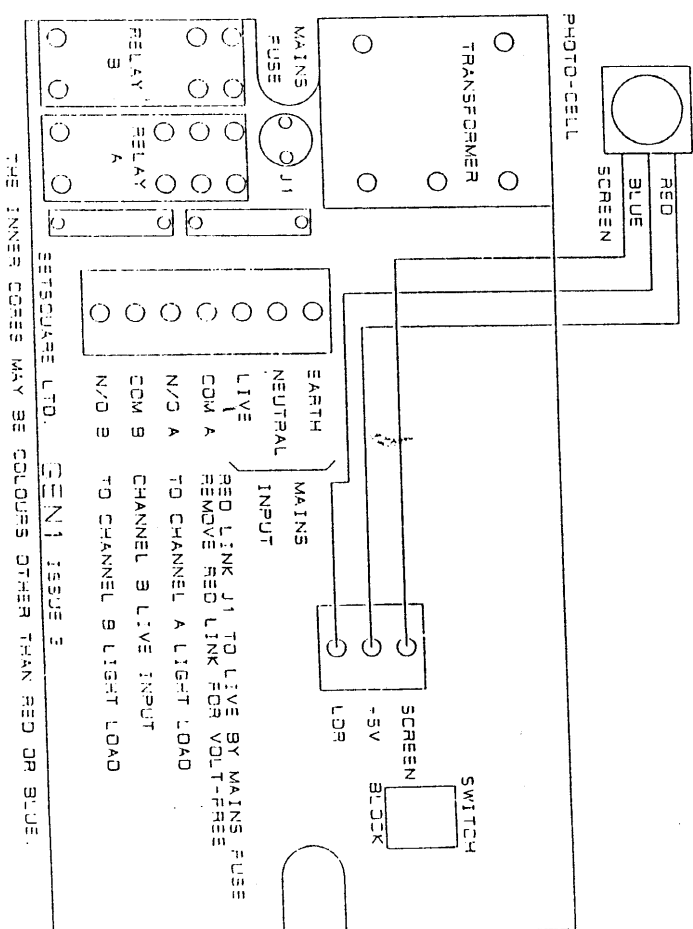
This shows the DUO (two relay) version

Single relay versions do not have relay B or channel B connections.

Use 2 core overall screened cable to connect sensors (DSC100)

Link J is an on board connection between Live and COM A. If not switching the mains powering the board, the relay can be made volt free by removing Link J (It plugs in). The load being controlled would then be connected in at COM A and out from N/O A.

Ensure channel A is the circuit furthest from the window, and channel B the circuit nearest the window.



Specification

Control Unit

Supply Voltage	240v 50Hz or 60Hz (other supply voltage versions available)
Switching Capacity	8 Amp inductive or resistive (each relay) up to 240v AC.
Order Code	Single Relay: SX1 Dual Relay: SX2
Time delay	Before ON: 30 Seconds OFF: Adjustable 2 mins to 16 mins.

Light sensor

Light level	50 to 1500 lux
Adjustment	Front of control unit
Order code	PP : Recessed/Indoor unit SB: Surface mount box for above. SL8P: Outdoor Unit

Accessories

Hole cutter (for sensors)	TC
Demand Button	DB