Autolux Universal Lighting Control System



Product Data Sheet

| DLS/6 LuxMaster 220-240VAC 50Hz 3A - For switching contactor coils ONLY. Volt Free | | |
|---|--|--|
| Control Box, Handset & Contactor Panel These items must be installed indoors The system must not be installed at an altitude of more than 2000 metres The allowable humidity conditions are not more than 80% RH up to 31°C decreasing linearly to 50% RH up to 40°C The pollution degree is 2 in accordance with IEC664. The installation category is 3 for the contactor box and 2 for the control box. The safe operating temperature range is +5 °C to +40 °C. | | |
| Optosensor The optosensor is intended to be located externally. The operating temperature range is -20 °C to +40 °C. Supplied With 20mm Conduit Mounting Coupler | | |
| Master Control Unit220 x 175 x 85mmRemote Control Unit100 x 195x 44mmContactor PanelDetails On Request | | |
| Remote Sensor 30Ø x 50mm | | |
| Master Control Unit - Surface mounted with suitable screw fixing Remote Control Unit – Supplied with universal mounting plate and | | |
| 6 channel 24 hour digital 7 day (24/12 hour display) LCD Screen and 6 x Status LEDs Green = Stage ON Red = Stage OVERRIDE Black = Stage OFF | | |
| Via Digital Key Pad (8 time periods per stage, per day) x 6 Via Key Pad Via Key Pad Internal battery system 14 Days | | |
| Stage 1-6: 1 to 25000 lux | | |
| Override Hours, Saved Hours and ON Hours 0000h : 00m | | |
| Remote Control Unit Key Pad 250 minutes (Maximum) | | |
| EMC - 89/336/EEC LVD - 73/23/EEC | | |
| | | |

Commissioning And Settings



| 1 | Ready Screen | | | |
|---|---------------------|-------|--|--|
| | DDD | HH:MM | | |
| | ##### | Lux | | |

| DDD | Displays current day of the week. This can be altered if inaccurate. |
|-----------|---|
| HH:MM | Displays the current time in either 12 hour or 24 hour format. This can be altered if inaccurate. |
| ##### Lux | Displays the current recorded light level at the sensor point. This value updates 60 times per minute. |

When the 'ready' screen shows as above, the LuxMaster DLS6 is operational and ready for use.

2 Lamps

There are six indicator lamps, one for each operational stage. Each stage represents all lighting circuits which have been dedicated to that stage. It is not necessary to use all six stages if they are not required. Stage numbers 1 - 6 are represented from left to right on the hand held unit.

Lamp illumination indicates the following statuses : -

| Green | Stage is on automatically |
|-------|-------------------------------------|
| Red | Stage is on through manual override |
| Off | Stage is off |

3 1-6

Allows all stages to be grouped together for programming

4 Day

Allows day settings to be changed

5 Set up

Allows set up parameters to be set or altered

6 Digital Keypad

Digits 0 - 9 for full flexibility in programming options and settings

7 Yes

Allows details entered to be accepted

8 No

Allows user to cancel program details or parameters

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1. NORMAL OPERATION

In normal operation, the following 'ready' screen is displayed.

DDD HH:MM ##### Lux

The only functions available without special access codes are override stage(s) or view stage timers. Any operator can perform these functions, as described.

1.1 Manual Override

Manual Override allows the user to force a stage or stages to switch on for a preset time. This is performed when the operator needs the lights on when the sensor detects that they are not necessary. Example:- for maintenance.

It is possible to override either individual stages or all stages simultaneously.

To override an individual stage

Ensure 'ready' screen is displayed

Press required stage number (1 to 6) using keypad, or press button '1-6 ' to override all stages simultaneously.

Override screen will appear as follows:

Stage # Override Yes/No

Press 'Yes' to accept the override option. Stage lamp will illuminate RED to indicate that the stage is in manual override.

This process can then be repeated exactly to cancel override at any time.

Press 'No' to cancel this option. By pressing 'No' the system will automatically display the stage timers.





1.2 Stage Timers

The stage timers show the number of hours that the stage has been switched on, overridden or power saved.

These are displayed as follows:

| Stage # on ##### hrs ## mins | Shows the time the stage has been On automatically |
|--------------------------------------|---|
| Stage # saved #### hrs ## mins | Shows the time the stage has been off. i.e difference between program time and on time. |
| Stage # override #### hrs ## mins | Shows the time the stage has been manually overridden |

2 AUTOMATIC SETUP

2.1 To Set Up LuxMaster dls6

Set up options are as follows:

Press set up button. The screen will scroll through the options : 1 > Set Time 2 > BST/GMT 3 > Program Set up No> Cancel

2.1.1 Set Time

This option allows the user to alter either the time or day setting.

Access the set up menu as described in 2.1

Press button '1' to select 'Set Time' option

Set Time screen will appear as follows 12 hour display

Set time DDD HH:MM a/p 24 hour display Set time DDD HH:MM

To alter the day

Pressing the day button allows the day of the week setting to be altered. Each press of the day button cycles the user through the days of the week.

To alter time Cursor will flash to left of input field.

Using digits 0 - 9, enter the correct time in either 12 hr or 24 hr format. Always enter the leading 0, for example 09:30a or 09:30.

Press 'Yes' to accept input data. (Settings will be updated)

Press 'No' to cancel and return to ready screen.

2.1.2 BST/GMT changeover

Access set up menu as described in 2.1

Press '2' to select BST/GMT toggle option.

The unit will automatically increase or decrease the time by 1 hour.

The unit will return to the 'Ready' screen automatically, there is no need to confirm this action.

2.2 TO PROGRAMME LUXMASTER DLS6

The following programme options are available:

1 > 12hr / 24hr clock selection
2 > Programme Times
3 > Set Lux Levels
4 > Override Time
5 > Maintenance
No> Cancel

Ensure 'Ready' screen is displayed

Press ' Set up ' button

Select option 3 (Program Set up)

Screen will display Enter PIN Number

- - - -

Cursor will flash on the left of a 4 digit entry line

Enter PIN Number 1 2 3 4, followed by 'Yes'

As each number is entered, an * will appear to replace the dotted line.

2.2.1 12hr / 24hr OPTION

LuxMaster clock operates in either 12 hour or 24 hour cycles. Select the preferred option by the following method:

Enter the 'Program Mode' as previously described.

Press '1' to select '12/24hr' option on the set up menu

2.2.2 Program Times

This option allows the user to set up the lighting timing matrix for all/ any stage for each individual day, or group of days, of the week for up to 8 time periods as follows.

Autolux 1 On 1 Off 1 Autolux 2 On 2 Off 2 Autolux 3 Off 3

All of the above can be the same setting/time



In brief, the following outlines the function of each of the 'Program times' settings.

Autolux

At time specified by 'Autolux' setting, the system enters fully automatic mode for a particular stage on a particular day.

ON Lights are forced ON, regardless of LUX reading.

OFF

Lights are forced OFF, regardless of LUX reading.

SETTING THE PROGRAMME

Enter the 'Program Mode' as previously described.

Press button 2, to select 'Program Times' option

The program times screen will display as follows: -

Which Stage? # Day? Mon - Sun

The input # will be that selected on the key pad by the user.

Press the digit on the keypad to select stage 1 - 6 or press 'All' to select all stages.

Select the DAY to programme by pressing the 'Day' button. The following options are available in sequence.

. Mon - Sun . Mon - Fri . Mon . Tue . Wed . Thu . Fri . Sat . Sun When the screen shows both the stage and day you wish to programme, press 'Yes'.

The screen will alter to display the selected stage and day, and will scroll through the following options.

1 > Autolux 1 2 > On Time 1 3 > Off Time 1 4 > Autolux 2 5 >On Time 2 6 > Off Time 2 7 > Autolux 3 8 > Off Time 3 No > Cancel

To update settings, press digits 1 - 8 or 'No' as appropriate.





The following is an example of the standard programming technique required for any/ all programme time settings.

Select Time to be altered, in this example it is On time.

2 > On Time 1

Cursor will flash at left of input field.

Use 0 - 9 buttons to type the actual time required (either 12 or 24 hour clock)

Example09:30

Press 'Yes' to accept and update data, or 'No' to cancel data update.

Examples of Settings:

| Setting | 24 hour Lights Off | 24 hour lights On | 24 hour automatic |
|------------|--------------------|-------------------|-------------------|
| Autolux 1 | 00.00 | 00.00 | 00.00 |
| On Time 1 | 00.00 | 00.00 | 24.00 |
| Off Time 1 | 00.00 | 24.00 | 24.00 |
| Autolux 2 | 24.00 | 24.00 | 24.00 |
| On Time 2 | 24.00 | 24.00 | 24.00 |
| Off Time 2 | 24.00 | 24.00 | 24.00 |
| Autolux 3 | 24.00 | 24.00 | 24.00 |
| Off Time 3 | 24.00 | 24.00 | 24.00 |

| Setting | Night Shift Automatic | Day Shift Automatic | Night Shift Lights ON | Day Shift Lights ON |
|------------|--------------------------|------------------------|--------------------------|------------------------|
| Autolux 1 | 00.00 | 00.00 | 00.00 | 00.00 |
| On Time 1 | 08.00 | 00.00 | 00.00 | 8.00 |
| Off Time 1 | 08.00 | 00.00 | 8.00 | 18.00 |
| Autolux 2 | 18.00 | 08.00 | 18.00 | 24.00 |
| On Time 2 | 18.00 | 18.00 | 18.00 | 24.00 |
| Off Time 2 | 18.00 | 18.00 | 24.00 | 24.00 |
| Autolux 3 | 18.00 | 18.00 | 24.00 | 24.00 |
| Off Time 3 | 24.00 | 18.00 | 24.00 | 24.00 |



2.2.3 Set Lux Levels

Access setup menu as described in 2.1

Press '3' to select Lux Level setting

Press a key 1 to 6 to select stage to be set or press '1-6' to set all stages simultaneously.

Press 'Yes' to accept then

Cursor will flash to left of input field. Using buttons 0 - 9, type in the actual lux level at which you require this stage to switch on. This value must be between 1 and 25000 lux.

Press 'Yes' to accept new settings or 'No' to cancel and return to setup screen.

2.2.4 Setting Override time

Access setup menu as described in 2.1

Press '4' to select Override setting

Press 1 to 6 to select stage to be set or press '1-6' to set all stages simultaneously.

Press 'Yes' to accept then

Cursor will flash to left of input field. Using buttons 0 - 9, type in the actual number of minutes you require the override to last before setting back to automatic. This value must be between 1 and 250 minutes.

Press 'Yes' to accept new settings or 'No' to cancel and return to setup screen.

2.2.5 Maintenance

This option is not available.