LUX DC12

12V DC

domestic

# Drum Mount Roll Up

# Garage Door Operators




## Ground Breaking Innovation !

**Door Position Sensing** (DPS)

**DPS technology eliminates bothersome limit switches, preventing potential damage to garage doors from end stop recalibration. Even in power loss or manual mode, the operator will always be aware of the door's open & closed positions.**

2 YEAR WARRANTY

Product of South Africa

Head Office: 4 Moss Road, Westmead, KZN, South Africa

facebook.com/DuraAccessControlEquipment/

www.dace.co.za

+27 31 825 7484

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ACCESS CONTROL PRODUCTS
Innovating since 1996

# Unrivaled advantages of the LUX DC12:

- Maximum Standy Duration:
  - 200 cycles during a power failure within 6 hours
  - 150 cycles during a power failure within 24 hours
  - 8 cycles during a power failure within 100 hours
- Ultra-slim Motor Head (65mm wide)
- Control Box rapid fit mount, no need to drill in the wall
- Positive Disengage Override Mechanism
- No ‘hard limit’ programming required
- LUX Power Heads and Control Boards are universal and are used for Sectional, Vertical Mount Roll Up and Drum Mount Roll Up garage doors.
- Effortless installation.
- Manufactured in South Africa with parts readily available.

# Features:

**12V DC:**
The LUX operator is 12V DC and uses affordable and readily available 12V 7Ah batteries, providing up to 4 times longer stand by time (*) during power failures.
(* Our advanced electronics reduces the amount of power used during standby. This allows us to take advantage of the higher amp hour rating of 12V 7Ah batteries).

**ONBOARD RECEIVER:**
The onboard receiver allows for the programming of up to 64 remotes using our proprietary DACE Duracrypt encoding scheme to protect against code hijacking to gain unlawful entry.

**PLUG IN TRANSFORMER:**
Using a low voltage 16V AC plug in transformer means not having to run expensive, high voltage wiring which also requires a certificate of compliance if the wiring is new.

**PROGRAMMING MENU:**
The highly intuitive menu system makes it easy to set up and program the door's programmable limits and to add new remotes. It also allows for the easy removal of lost or stolen remotes.

**LIGHTING:**
The LUX operator comes standard with a built in high bright LED courtesy light which will switch on when the door is activated. The courtsey light can also be activated independently of the garage operator using a remote without activating the door.

Additional fixed lights in the garage can be switched on by connecting a relay module to the operator (optional extra).

**SOLAR POWER:**
The high effiency and reduced power consumption of the LUX operator makes it ideally suited for operation from solar power. No additional circuitry is required and the operator will automatically detect when connected to a DC solar panel*.
*(Recommended panel - min. 40W 12V)

**AUXILIARY OUTPUT:**
The auxiliary output augments the LUX operator by providing ONE of 4 additional features.
The output can be configured to either:

- give indication of the doors drive position
- provide a low battery warning
- provide a pulsed output whenever the door receives a trigger

OR

- switch on an external light such as the main garage light or a flood light.

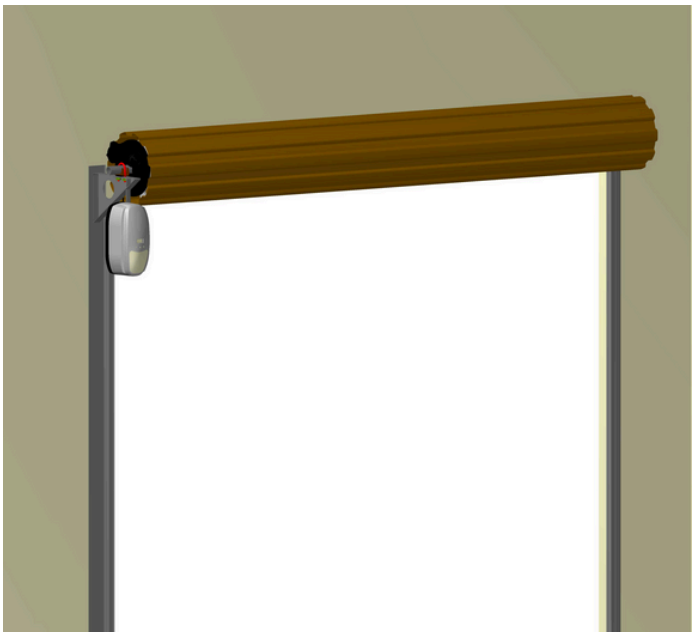
**SECURITY:**
To reduce the risk of an intruder gaining access to the garage, the LUX operator can be fitted with an optional relay module to control either a Magnetic or Electric lock.

A standard feature is Holiday Lockout. When activated, this feature prevents the operator from being activated by any other remote until such time as Holiday Lockout is deactivated.

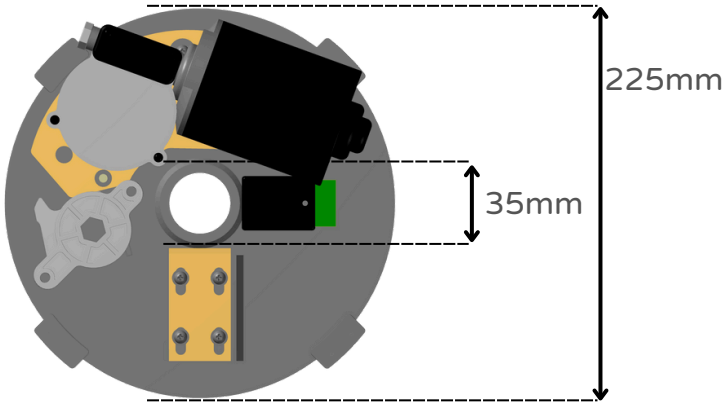
If the garage has a Passive Infrared (PIR) sensor connected to an alarm system, an optional relay module can be fitted to the operator to temporarily bypass the PIR during normal entry to allow for time to disarm the alarm panel.

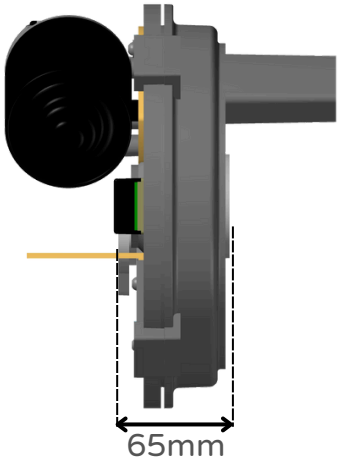
**SAFETY:**
With safety a priority, we have included the following safety features:

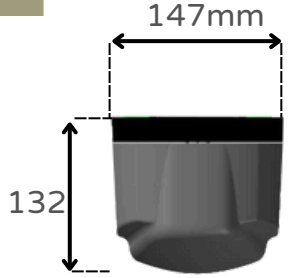
- Anti crush gap. This reduces the risk of possible crushing of a child or pet. If the door is stopped near the closed position the next trigger will open, rather than close, the door.
- Automatic reverse. If the door detects an obstruction while closing it will automatically reverse. This operation is further enhanced with smooth stop and start algorithms and adjustable force limits for the detection of obstructions.
- Dedicated safety beam input. Safety beams are recommended for all automated garage doors.

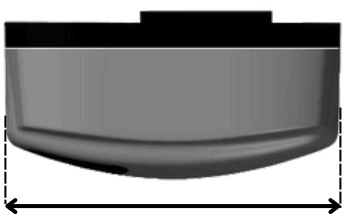


***Drum Mount Roll Up Automation***



# TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Transformer Voltage** | Input Voltage: 220 - 240V AC @ 50Hz<br>Output Voltage: 12 - 18 V AC |
| **Board Input Supply** | 12 - 18v AC (Transformer) OR 17 - 22V DC (Solar Panel) |
| **Peak Power Consumption** | 16W |
| **Motor Voltage** | 12V |
| **Motor Current** | 8.5A |
| **Motor Power (Rated)** | 100W |
| **Maximum Lifting Load** | 180N<br>**Based on a Door of 2.2m in height & with a rolled up drum diameter of 36cm** |
| **Maximum Holding Torque** | 40Nm |
| **Maximum Driving Torque** | 33Nm |
| **Battery** | 12V DC |
| **Maximum Standby Duration (Mains Fail)**<br>***Depending on ancillary equipment: battery charge level & quality*** | Number of Operations during Mains Fail:<br>• Within 6 hours: 400 operations (200 cycles) **OR**<br>• Within 24 hours: 300 operations (150 cycles) **OR**<br>• Within 100 hours: 16 operations (8 cycles)<br>**Measured using a 7Ah battery on a 5m2 door with a lifting force of 50N**<br>**Operation = either Open or Close**<br>**Cycle = both Open & Close** |
| **Maximum Daily Operations** | Using Mains Supply: 330 operations (150 cycles) per day<br>Using Solar Panel: 20 operations (10 cycles) per day |
| **Maximum Door Size** | 8m2 |
| **Maximum Lifting Height** | 4m |
| **Drum RPM** | 11 RPM |
| **Typical Travel Speed** | 9.5m/min<br>***Dependent on door size & make, load and battery voltage*** |
| **Outputs** | Auxiliary: Selectable to be either a light, trigger, status, low battery indicator or toggle.<br>Lock: Selectable to function with either an electric or magnetic lock |
| **Inputs** | External Trigger and Beams |



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