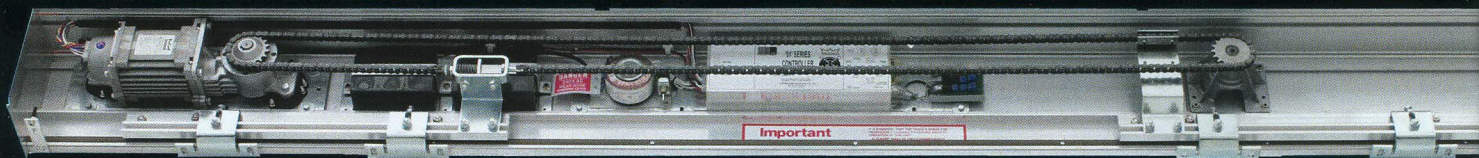


01 Series Automatic Sliding Doors

For Versatile
Door Solutions





the ultimate automatic operator

For over four decades DORMA Automatics has been manufacturing and supplying the highest quality automatic door operators throughout Australia, South East Asia and the Middle East.

Using next generation technology, the O1 Series of automatic sliding door operators can move up to 1,000kg doors with infinite control.

DORMA's tradition of reliability, longevity, performance and safety continues to influence its' product development.

The O1 Series of operators are Australian made product developed specifically to reliably operate oversized doors in a range of applications.

This impressive automatic sliding door operator can be tailor-made to suit various

door types including solid lead, bullet resistant and heavy industrial doors.

The O1 Series are powered by a high torque, superior performance motor, developed to withstand heavy duty use.

To ensure high reliability, the O1 Series drive train consists of a 12.7mm pitch chain that has an average tensile strength of 1950kg.

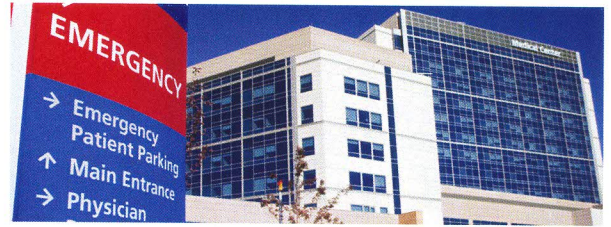
The locking system incorporates a fully monitored battery reserve system to ensure the doors remain locked during a power failure.

**Heavy duty
robustness**

**Securing your
entry**



Hospitals / Healthcare



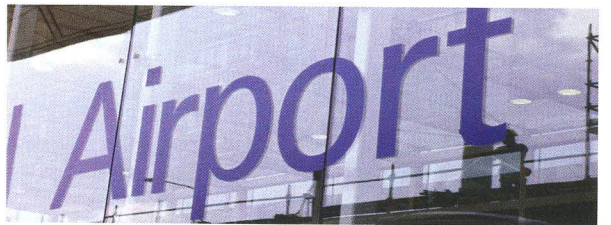
Financial Institutes



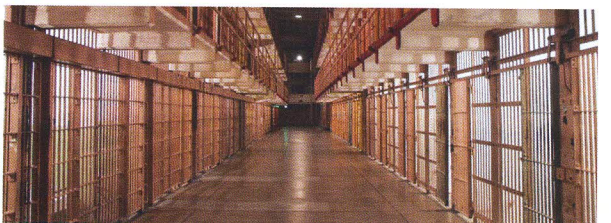
Shopping Centres



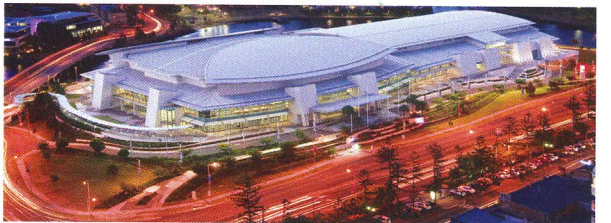
Airports & Transport Hubs



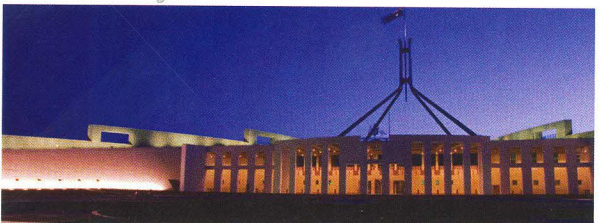
Law Enforcement Buildings



Hotels / Convention Centres



Government Buildings



Correctional Facilities

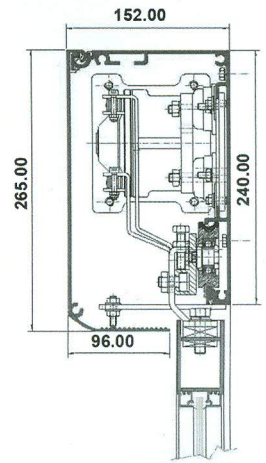


01 Series Operator Models

EL301

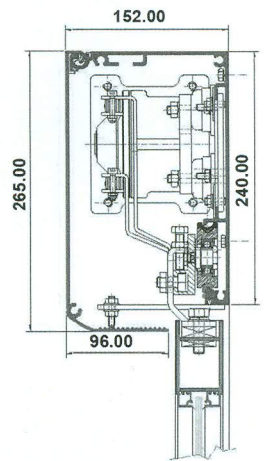


- Powerful 24VAC high torque motor capable of operating a maximum total door weight capacity of 300kg
- Designed to suit aluminium framed, 12 / 15 / 19 mm thick frameless glass, solid core timber or custom type doors.
- Robust and reliable chain drive power train with a tensile strength of up to 1950kg.
- UPS feature built in providing up to 300 continuous open / close cycles during a power failure.



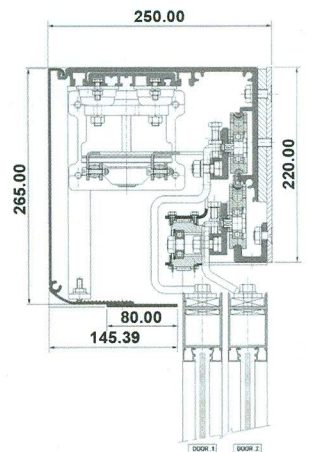
EL301 Secure

- As per EL301
- Fully integrated electronic lock system
- Solid tamper resistant housing
- Security program functions include: lock, smart lock, partial open lock and emergency lock
- Up to 48 hours of continuous lock time during a power failure with an option to extend
- Door leaves can be locked in any position
- BMS interface including open, closed, power, battery, fire monitoring
- Fully monitored battery back up system with audible alarm
- Endorsed for high security in government buildings



EL301 Telescopic - Framed Door

- As per EL301
- Greater flexibility when a wider clear opening is required but the available space is limited.
- Available for use in both bi-parting (4 door-leaves) and single sliding (2 door leaves in one direction) applications.



01 Series Performance Table

Door Parameters	EL301	AL401	AL501	AL1001
Single panel sliding door – Maximum Door width – Maximum Door weight	3000mm 300kg	3000mm 400kg	3000mm 500kg	2000mm 1000kg
Double leaf sliding door – Maximum Door width – Maximum Door weight	1500mm* 150kg	2000mm* 200kg	2000mm* 250kg	2000mm 500kg
Technical Data				
Height (Cowl)	240mm	240mm	240mm	240mm
Depth	152mm	152mm	152mm	152mm
Track Type	Aluminium	Stainless Steel	Solid Aluminium	Solid Steel
Motor Type				
High Torque Purpose designed 24 VAC	•	•	•	•
Gearbox				
Purpose designed fully enclosed with steel cut gears	•	•	•	•
Drive Train				
Chain	•	•	•	•
Belt	°	N/A	N/A	N/A
Opening speed (Fully adjustable)	10 – 50cm/sec	10 – 50cm/sec	10 – 30cm/sec	10 – 30cm/sec
Closing speed (Fully adjustable)	10 – 40cm/sec	10 – 40cm/sec	10 – 30cm/sec	10 – 30cm/sec
Hold open time (independent for Lock and Auto mode)	0 – 60 sec	0 – 60 sec	0 – 60 sec	0 – 60 sec
Power Supply	240 V, 50/60Hz	240 V, 50/60Hz	240 V, 50/60Hz	240 V, 50/60Hz
Power Consumption	175W	175W	175W	175W
Ambient Temperature	-15°C - 50°C	-15°C - 50°C	-15°C - 50°C	-15°C - 50°C
Class of protection (IP Rating)	IP20	IP20	IP20	IP20
Control Module				
Microprocessor control	•	•	•	•
Function Modes – Off/Lock – Exit – Automatic – Open	• • • •	• • • •	• • • •	• • • •
Electronic Mode Pad	°	°	°	°
Security Interface	°	°	°	°
After Hours Exit (Night bank)	•	•	•	•
Self Learning	•	•	•	•
Automatic reverse	•	•	•	•
Photo electric cells (safety beams)	•	•	•	•
Failsafe Opening	•	•	•	•
Continuous operation under power failure	°	°	°	°
12 Volt output	•	•	•	•
Door Management System (DMS)	°	°	°	°
Locking				
Electric Motor lock	°	°	°	°
Interface lock inputs when lock option is selected	•	•	•	•
Standard • Optional °				

* Larger door sizes upon application

01 Series General Specification



The Automatic Door Operator

The automatic single / bi-parting door operator is to be a 240v fully electric DORMA EL301 Series, fully housed in extruded aluminium (265 mm H x 152 mm W). The operator must be capable of operating a total door weight up to 300 kg and include a monitored battery back up system with audible alarm that is able to operate the door up to 300 cycles during a power failure. The operator is to comply with the Australian Standard AS5007 and the Building Code of Australia.

The equipment will incorporate the following:

A 3 phase 24 volt motor that is unable to be burnt out; a programmable logic control with current sensing and durable solid state switching of the motor; chain drive with average tensile strength of 1950kg and a 12.7mm pitch; self-lubricating gearbox with steel cut gears (not nylon or cast) for increased durability with no intermediate belts or pulleys; an anodised aluminium replaceable tracking system; and a carriage assembly supported by glass fiber reinforced nylon track wheels with fully raced and sealed ball bearings.

The operator must have positive electric braking to close the doors smoothly; fully adjustable speed control with independent settings for open, close and braking; automatic re-closing circuitry to ensure doors re-close if partially opened; intermediate selectable opening widths or climate control facility.

The operator is to incorporate a failsafe device to open doors fully on power failure or on fire signal in accordance with the BCA section D2.19 and relevant Australian Standards; monitoring warning signal to indicate when the battery power is low; automatic reversing if obstructed during closing sequence with fully adjustable sensitivity settings; automatic stop and retry if obstructed during opening sequence at a predetermined programmable time and speed; dual sets of jamb fitting high gain (up to 15m) flush mounted safety beams (PE cells) that are resistant to sunlight.

Actuation

The operator is to be actuated by two DORMA microwave movement sensors as standard equipment; the sensors must be resistant against reflected sun light and have focusable area detection settings to reduce unnecessary actuations. The operator is to be covered by a one year parts warranty from date of invoice.

Optional Features

Belt Drive

15mm belt with curvilinear tooth design precisely formed and accurately spaced to ensure smooth engagement with pulley grooves.

Interface

Provides operational data output signals for building security system, i.e. open, closed, locked

Motor Lock

The operator is to have a CSIRO approved failsafe electric motor lock, compliant with the BCA section D2.21, which locks the doors via the drive train regardless of the door position. It is to incorporate a rechargeable battery reserve to ensure the doors remain locked for up to 30 hours under mains power failure with an option to extend.

Mode Pad

The operator is to be fitted with a DORMA one touch operation electronic mode pad with back lit LCD screen. The mode pad is to have an input jack for the operator programming device and integrated diagnostic feedback function that provides information on door function status and servicing requirements.