



EL 301

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Specification sheet

DORMA EL 301

The DORMA EL 301 is the benchmark for Australian automatic door operators, combining a proven mechanical platform and next generation technology the EL 301 is a robust performer that delivers infinite control, smoother function and sleeker lines, providing design possibilities that are limited only by the imagination.

The DORMA EL 301 automatic door operator is engineered to control and operate bi-parting and single slide framed and frameless glass sliding doors and is a proven performer in airports, shopping centres,

supermarkets, hotels, hospitals, financial institutions, sports stadiums and many other commercial sites.





The Automatic Door Operator

The Automatic single slide/bi-parting door operator is to be a 240-volt fully electric DORMA EL 301 SERIES. Fully housed in extruded aluminium (height 265mm x width 152mm).

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 two (2) years parts and twelve (12) months labour 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.

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