

ULTRASLIDE SD SPECIFICATION

The automatic door shall be an ULTRASLIDE automatic door operator designed and manufactured in New Zealand by SELF OPENING DOORS LTD. The operator is to be compliant with NZS/AS 4085, standard for automatic door operators, be EMC compliant and conform to the requirements of the New Zealand building code. The operator is to utilize state of the art electronics to provide unmatched functionality and ease of installation.

MECHANICAL

The operator shall be driven via a toothed timing belt from a 40 volt DC permanent magnet, variable speed, continuously rated motor. The driven system shall be nylon wheel with encapsulated bearings on a hard anodised aluminium track ensuring a smooth, quiet operation. Adjustable anti-rise wheels shall prevent the doors from de-railing. The operator shall be supplied in an extruded aluminium cowl 145mm high x 160mm deep.

LOCKING

Locking shall be by way of an electric motor lock, factory fitted to the drive shaft of the motor. This ensures no alignment problems associate with mechanical type locks.

CONTROLS

The door functions shall be controlled by a five position membrane switch. The following modes shall be selectable:

Auto: For normal use. The door operates in a fully automatic mode for two-way traffic.

Half Open/Three Quarter Open: For adverse climate conditions, door operates as in auto mode but only opens halfway.

Open: The door will remain fully open.

Lock: The door closes and the motor lock engages. It ignores all inputs except emergency exit, security and fire open signals.

Exit: The door closes and the motor lock engages. The door will open for traffic leaving the building only.

ACTIVATION

- By Eagle 6 Microwave sensors, one on either side of the door.
- By dual safety light cells fitted at 100mm and 600mm above finished floor level.
- By backlit emergency egress button.

FUNCTIONS

All of the following functions shall be independently adjustable:

- Opening Speed
- Closing speed
- Dwell Time
- Braking Force

FAILSAFE AND BATTERY

To be a fully monitored UPS system monitoring both battery and door operation. In case of power failure in auto mode the battery shall continue to provide full operation of the door for 200 complete open and close cycles. When the battery is too low to run the operator the doors will failsafe open. In case if power failure in lock mode the battery shall retain full locking for 8 hours.

SECURITY INTERFACE SPECIFICATION

The operator can be fitted with an Ultra-ID Security IO Panel. This interface will allow easy integration with any building management systems. Wiring to building management system by others.

The interface shall have clean contact relay outputs for the following functions. These outputs are selectable by jumper to be either normally open or normally closed. Activation of the relay is accompanied by an LED indication for easy fault diagnosis.

- Door closed
- Safety light cells blocked
- Door locked
- Door in hold open mode
- Door in lock mode
- Door in auto mode
- Door forced
- Mains in power failure
- Door in controlled mode
- Battery low

The interface shall have inputs for the following control functions:

- Door to auto mode
- Open door (latching this holds door open)
- Fire open
- Door to exit mode
- Door to lock mode
- Fire close

TECHNICAL DETAILS

Power Supply	230 Volt AC 50Hz	Maximum Closing force limited to	130N
Motor	40 Vol DC Permanent Magnet	Minimum Operator Length	Single 1700mm
Power Consumption	300 watts max		Bi-parting 2100mm
Operation	Continuous Rated	Maximum Operator Length	Single 4000mm
Drive System	Toothed Timing Belt		Bi-parting 6000mm
Maximum Weight Door Leaf	Single 100kg	Hold Open Time	0-60 Seconds
	Bi-parting 90kg each	Failsafe	Standard
Maximum Opening Speed Per Leaf	Single 500mm/sec	Early Morning Entry Feature	Standard
	Bi-parting 1000mm/sec	Battery Level Indicator	Standard

