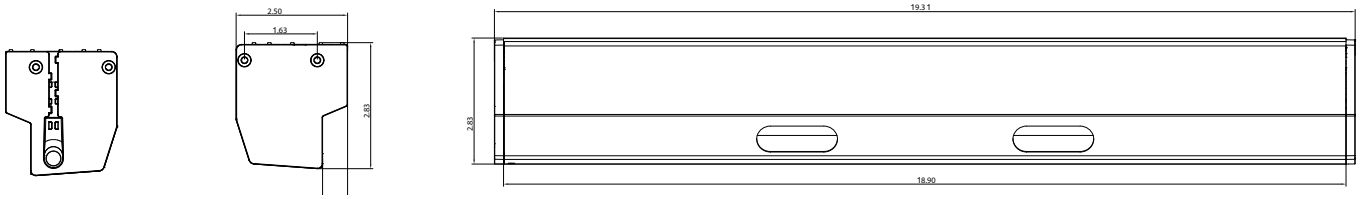
AUTOSLIDE

Technical Data Sheet



Greneral Descriptions

The AutoSlide unit is a lightweight automatic door opener for sliding doors in the domestic and light duty commercial (i.e. small offices etc) environment.

The main components of the system are the operator, power supply and remote controls/sensors. The operator is built around a single piece aluminium extrusion, on to which the other components are assembled.

Main components include a motor/gearbox and electronic controller. The system is rack & pinion actuated, whereby the rack is attached to the door to be automated and is driven by the pinion.

Installation

The operator is not required to support the sliding door, and therefore suitable rails, guides etc. must be fitted prior to installation of the operator. In this way, it is a simple task to retrofit the AutoSlide operator to any existing sliding door. Fixing points are provided on the base extrusion to allow for reliable fixing into the head or floor whichever is best suited to the application.

End caps and an extruded cover are also provided such that, when installed, the mechanics of the device are fully concealed, with only the rack visible outside of the length of the AutoSlide.

Power

Power is supplied to the AutoSlide operator by means of a self-contained power pack. The power pack is of the wall socket mounted type and a low voltage cable is then routed to one side of the operator where a plug is provided in the end cap.

Sensors and Remote Controls

The AutoSlide operator is activated by means of one of several types of sensor/remote controls. The sensors available include, active IR beam presence detector, active IR hand wave sensor, active IR and/or magnetic pet sensor, radio frequency push button remote control, all of which, excepting the magnetic pet detector are battery powered.

General Specifications

Data	Value	Unit
Rated door opening speed	600	mm/sec
Rated door closing speed	300	mm/sec
Maximum opening force	97	N
Door maximum Opening Width	920	mm

Drive System Specifications

Data	Value	Unit
Motor type	Brushed dc motor with integral worm gearbox and position encoder	
Motor power	30	W
Motor rated speed	3450	rpm
Motor rated torque	86.7	mNm
Gearbox ratio	15:1	-
Gearbox output speed	230	rpm
Gearbox output torque	1.3	Nm
Gearbox maximum output torque	2.6	Nm
Gearbox output shaft Ø	8.0	mm
Pinion type	5 Module x 30	-
Rack Type	5 Module	-
Rack Length	1000	mm

Material Specifications

Data	Material	Grade	Finish
Base extrusion	Aluminium	6063	Powder coat
Cover extrusion	Aluminium	6063	Powder coat
End caps	ABS		Texture
Motor/gearbox housings	Nylon	6/6 – 30% GF	Texture
PCB enclosure	ABS		Texture
Worm gear	Nylon	6	Smooth
Worm wheel	Nylon	6 –Mineral Filled	Smooth
Drive Pinion	Acetal		Smooth
Rack	Nylon	6	Smooth

Electrical Specifications

Data	Value	Unit
Power supply input voltage	100-240/60-50	V. ac/Hz
Power supply input current max	1.2	A
Power supply output power	36	W
Power supply output voltage	15	V
Power supply current max	2.4	A
Protection (Polyswitch)	5	A