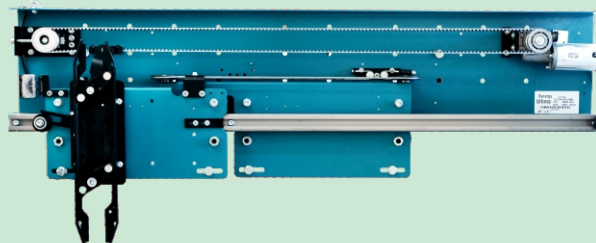




**GREENFIELD®**  
ELEVATOR

## CAR DOOR MECHANISM

- Low weight & reduced overall dimensions
- Wire Rope less Car Header for silent operation
- Wider Belt size strengthens the operating torque
- Auto learning facility for variable door weight
- Speed control for coupler-skate gives noiseless opening/closing
- Long life door contacts
- Adjustable idle pulley with spring tension
- Bottom sill less design prevents dirt entry & gives attractive bottom look
- Easy installation & fast debugging
- Field configurable for interfacing with different types of main controller
- Without Limit Switch
- Speed/Position & torque adjustable for opening & closing curve
- Closing force adjustable door re-open automatically while exceeding on closing force



## LANDING DOOR MECHANISM

- Low weight & reduced overall dimensions
- Wire rope based-flexible D-locking gives freedom for mounting key anywhere in the frame
- Steel rope with spring self-tightening
- Applicable for all type of door panel
- Totally reliable design



## AVAILABLE VARIANTS

Category	Family	Sub-family	Opening Range	Height of door
Car Door & Landing Door Mechanism	Centre Opening	2 Door	650 mm to 1400 mm	Car: upto 2105 mm
		4 Door	700 mm to 1800 mm	
	Side Opening (Telescopic)	Left Side (2 Door)	650 mm to 1400 mm	Landing: upto 2005 mm
		Right Side (2 Door)	650 mm to 1400 mm	

## DOOR OPERATION CONTROLLER

With high performance and intelligent controlling features, our Door Operation Controller redefines the trends. It is a high end Micro-Controller based design and dedicated solution to suit any type of automatic door operator with almost all sizes of opening available in the market.

**PLUG AND START** : simply takes the control of the doors as soon as it is powered

**SELF LEARNING** : automatically adopts the Opening & Load parameters of doors

**FLEXIBILITY BY PROGRAMABLE PARAMETERS**: tunes to your imaginations of door functionality by its programmable Parameters, viz.

- Open/Close Fast & Slow Speed
- Open/Close Slow Located Distance
- Open/Close Brake Slope
- Close Safety & Holding Force
- Skate Speed

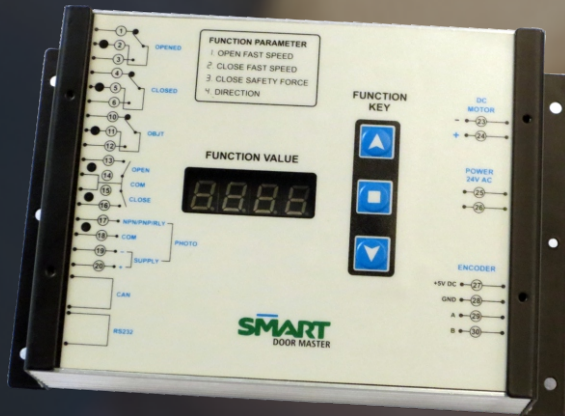


**DOOR STATUS OUTPUTS**: Relay Contact O/P as per the status of the Door viz. Fully Opened, Fully Closed, Photo Sensor Obstruction (Closing/Opening Obstruction)

**VISIBILITY OF ALL INPUTS, OUTPUTS, OPERATIONS**: displays the status of all I/Ps, O/Ps & Operations to make you more comfortable while monitoring the operation of the unit

## BLDC Drives

Parameters	Details
Operating Voltage	220V AC (50/60 Hz) with $\pm 20\%$ tolerance
Topology	<ul style="list-style-type: none"> <li>The unit is controlled by a Micro-Controller</li> <li>Motor Control Strategy: PWM Control</li> <li>It is cleaner, faster, more efficient, less noisy, more reliable and maintenance-free due to absent of brushes</li> </ul>
Motor	Brushless Direct Current Motor (BLDC) up-to 150 Watt



## PMSM Drives

Parameters	Details
Operating Voltage	24V AC (50/60 Hz) with $\pm 5\%$ tolerance
Topology	<ul style="list-style-type: none"> <li>The unit is controlled by a Micro-Controller from a family of 32-bit DSP controller;</li> <li>Motor Control Strategy: FOC Control/Sinusoidal Control/Vector Control</li> <li>Isolated CAN Bus Interface (optional)</li> </ul>
Motor	Permanent Magnet Synchronous Motor (BLDC) upto 150 Watt

## PMDC Drives

Parameters	Details
Operating Voltage	24V AC (50/60 Hz) with $\pm 5\%$ tolerance
Topology	<ul style="list-style-type: none"> <li>The unit is controlled by a Micro-Controller from a family of 32-bit DSP controller</li> <li>Motor Control Strategy: 4-Quadrant PWM Control</li> <li>Isolated CAN Bus Interface (optional)</li> </ul>
Motor	Permanent Magnet Direct Current Motor (PMDC) up-to 150 Watt

## GREEN FIELD CONTROL SYSTEM (I) PVT LTD

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