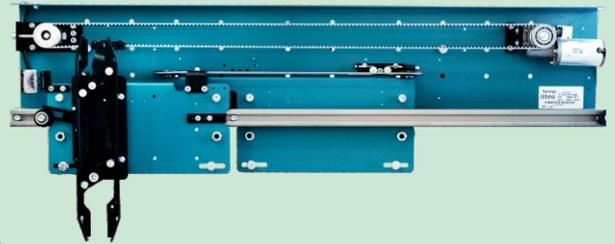




CAR DOOR MECHANISM

- 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

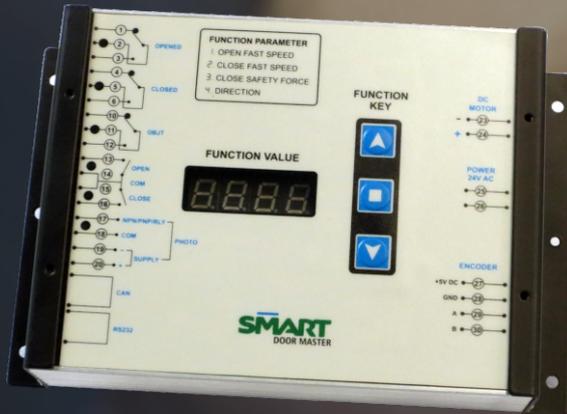


DOOR STATUS OUTPUTS: Relay Contact O/P as per the status of the Door viz. Fully Opened, Fully Closed, Photo Sensor Obstruction (Closing/Opening Obstruction)

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"> • The unit is controlled by a Micro-Controller • Motor Control Strategy: PWM Control • It is cleaner, faster, more efficient, less noisy, more reliable and maintenance-free due to absent of brushes
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"> • The unit is controlled by a Micro-Controller from a family of 32-bit DSP controller; • Motor Control Strategy: FOC Control/Sinusoidal Control/Vector Control • Isolated CAN Bus Interface (optional)
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"> • The unit is controlled by a Micro-Controller from a family of 32-bit DSP controller • Motor Control Strategy: 4-Quadrant PWM Control • Isolated CAN Bus Interface (optional)
Motor	Permanent Magnet Direct Current Motor (PMDC) up-to 150 Watt

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