



# Byrnes Entrance Technology

Formerly FRB Industries established 1981

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• AUTOMATIC DOORS • AUTOMATIC GATES • REVOLVING DOORS • TURNSTILES • BOOMGATES

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## Architectural Specification for Automatic Swing Door Operator Model Tormax SMART DRIVE SD1101

Door operator(s) shall be pair/single swing type, electromechanical programmable microprocessor controlled door operator, high performance type Tormax SMART DRIVE SD1101, as supplied and installed by Byrnes Entrance Technology Pty Ltd, Email: [info@byrneset.com.au](mailto:info@byrneset.com.au).

Drive system shall comprise of a maintenance free, heavy duty synchronous motor with hypoid gear drive and self learning TCP1101 Processor Control System, suitable for 240 Volt AC power, without the need for step down transformers or hydraulic drive system. The motor drive system shall drive the doors open with integrated closing to provide smooth closing action. The SMART DRIVE SD1101 Swing Door Operator also includes an integrated hold open function and an integrated "push and go" function.

The SMART DRIVE SD1101 swing door operator shall operate quietly at all times and the equivalent continuous sound level not to exceed 30dB.

Door opening speed is adjustable and maximum leaf weight is 400kg for a leaf width of 600mm and maximum width lead if 1500mm for a door weighing 50kg.

For safety the Swing Door Operator to incorporate safety reversing with stop function in opening direction and automatic reversing in closing direction.

The operator when first switched on shall automatically adjust to its required opening and closing positions and door speed via the teach in program - programming of the control system by manually guiding the door through the corresponding operating sequence in the "teach in" mode. The hold open time is infinitely adjustable between 1 and 600 seconds.

**Fire Alarm/Failsafe Function** – In case of power failure, the door shall be easy to open manually with controlled closing by means of an integrated spring. The SMARTDOR swing door operator will auto-reset upon mains power resumption.

**Door Activation** – When door(s) are manually pushed or pulled, the door will operate from 5 degrees of swing via the integrated "push and go" door operator function. Also select from the following activation options:

Option 1: Surface Mounted Detector - Active Infra-red, modular solid state.

Option 2: Ceiling Mounted Detector - Active Infra-red, modular solid state.

Option 3: Electric Floor Mat Switch - Electric floor mats within the 'sweep- zone' of the door, fully moulded, colour black, exposed area dimensions 700x1000, 700x1400, 900x1000 or 900x1400. Admissible Intermittent Load: 70kgs/cm<sup>2</sup>.

**Safety** – Select from the following recommend options:

Topscan IR safety sensors, mounted to the top rail on the 'swing' side of the door.

Electric floor mats within the 'sweep- zone' of the door, fully moulded, colour black, exposed area dimensions 700x1000, 700x1400, 900x1000 or 900x1400. Admissible Intermittent Load: 70kgs/cm<sup>2</sup>.

**Door functions** - Door operating modes are: 'OFF', 'AUTOMATIC' and 'HOLD OPEN', switch integrated into the end panel.

**Installation Details** - Unit mountable to doors either left or right hand, transom or door leaf mounting. Mounting is suitable for doors opening out or opening in, for use with standard push in arm or slide arm.

### Technical Data

Drive dimensions: 85 x 116 x 580mm.

Power supply: 240 volt AC, 50Hz, 10 Amp circuit power consumption 3-140W.

Detector, sensor or lock power supply: 24VDC, 0.75A integrated supply.

Protection class: IP22.

Motion controls: two (2) individually adjustable.

Opening force: Adjustable.

Hold open times: adjustable up to 600 secs, permanently open.

Inputs: Six (6) for activators, two safety devices, operating modes off and open and key switch.

Outputs: Three (3) for electric lock control, status signal door position closed or hold open and safety device (monitoring).

Time/step control: selectable.

Ambient temperature range: -20 degrees to + 40 degrees.

**Proprietary Item supplied by: Byrnes Entrance Technology Pty Ltd** Email: [info@byrneset.com.au](mailto:info@byrneset.com.au)

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