



# 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

Automatic sliding door operator shall be BET2100 bi-parting/single type, fully compliant and accredited to AS5007, as supplied and installed by Byrnes Entrance Technology Pty Ltd, Tel: (02) 9531 5559 Email: [info@byrneset.com.au](mailto:info@byrneset.com.au)

**General description:** Drive control system shall consist of a robust DC motor with a programmable digital controller for door position sensing by non-contact distance measuring system driving toothed reinforced high performance belt for silent and service free operation (chain not acceptable). Doors precisely controlled for slow down of door movement. (Limit switches not acceptable).

Door functions, safety and security settings can be adjusted using a hand held programmer.

The opening and closing speeds are individually adjustable; bi-parting door opening speed and closing speeds are adjustable up to 100cm per sec and single door opening speeds are adjustable up to 50cm per sec.

When first switched on and upon activation, the door operator shall adjust to its opening and closing positions.

Door track shall be hard-anodised aluminium replaceable heavy duty type. Door carriages shall be equipped with track rollers of no less than 55mm diameter, moulded on high quality ball bearings and with adjustable door hangers and up-thrust rollers.

**Door control functions:** Selected via BET2100 Door function switch:

NIGHT – Door(s) remain closed. If electric lock is fitted; door(s) closed and locked.

EXIT – Door(s) operate automatically only via actuation devices inside.

AUTO – Door(s) operate automatically via actuation devices both sides.

HOLD – Door(s) stay in the hold open position.

**Safety: In-built automatic safety reversing function** to ensure automatic reversing of door(s) if obstructed in either direction. Also select one of the following additional AS5007 mandatory safety devices:

- a) BET/20 Dual Photo-electric safety beams, sun resistant, one set at 200mm, other set between 600/1000mm from floor level.
- b) BET/04 Safety presence sensor, surface mounted or BET/04/ECA for ceiling cavity mounting.
- c) BET/07 or BET/08 Combined motion and safety sensor, surface mounted or BET/08/ECA for cavity ceiling mounting.
- d) BET/MA Electric Floor Mat Switches, fully hermetically moulded, surface or recessed mounted, colour black.

**Failsafe:** If mains power failure occurs and a mechanical lock is NOT engaged, door(s) will operate open for emergency egress and will automatically reset upon mains power resumption. If BET2100 Electric lock is fitted, the same function will apply when in AUTO mode and doors will remain locked in NIGHT mode until activated by switch from inside.

**Failsecure:** If mains power failure occurs and BET2100 Electric lock is fitted, door(s) will remain locked until activated open via switch from inside for a preset time then close and lock.

**Electric lock (Optional):** The operator shall include a BET2100 Electric lock (electro-mechanical type).

**Power:** 240VAC, 50Hz, 10amp single-phase power point (by others), above left hand side of door operator.

**Ambient operating temperatures:** -20 to +50 degrees Celsius.

**Door Activation:** Specifier to select as required:

- ❑ BET/02 MOTION SENSOR, transom or pelmet surface mount or BET/02/EAC ceiling mount.
- ❑ BET/03 MOTION SENSOR, transom or pelmet surface mount.
- ❑ BET/04 SAFETY PRESENCE SENSOR, transom or pelmet surface mount or BET/04/EAC ceiling mount.
- ❑ BET/05 NON-TOUCH PROXIMITY SENSORS, wall mount.
- ❑ BET/07 COMBINED MOTION AND SAFETY SENSOR, wall mount.
- ❑ BET/08 COMBINED MOTION AND SAFETY SENSOR, transom or pelmet surface mount or BET/08/EAC ceiling mount.
- ❑ BET/MA ELECTRIC FLOOR MAT SWITCHES, surface or recessed floor mount, hermetically sealed.
- ❑ BET/13 WIRELESS TOUCH SWITCH, wall mount.
- ❑ BET/14 EXIT PUSH BUTTON SWITCH, narrow stile, mullion mount.
- ❑ BET/15 EXIT PUSH BUTTON SWITCH, ILLUMINATED BUTTON.
- ❑ BET/16 KEYSWITCH, impulse type, wall, column or mullion mount.
- ❑ BET/16/LIW KEYSWITCH, impulse or two position, wall or mullion mount.
- ❑ BET/17 DIGITAL CODEPAD SWITCH, wall mount.
- ❑ BET/18 DIGITAL CODEPAD SWITCH (VANDAL RESISTANT), wall mount.
- ❑ BET/20 PHOTO-ELECTRIC BEAMS, flush mullion mount.
- ❑ BET2100/DFS DOOR FUNCTION SWITCH, standard width, wall mount.
- ❑ BET2100/DFS/N DOOR FUNCTION SWITCH, narrow stile, mullion mount.
- ❑ BET2100/ATD/ENTRY and BET2100/ATD/EXIT ACCESSIBLE TOILET CONTROL PANELS, refer to BET2100/ATD specification.

**Compatibility:** BET2100 Door operator is compatible with access control systems, intercom systems, fire alarm systems, security alarm systems, card readers and other activation equipment.

**Proprietary Item supplied by: Byrnes Entrance Technology Pty Ltd** Tel: (02) 9531 5559 Email: [info@byrneset.com.au](mailto:info@byrneset.com.au)