



Byrnes Entrance Technology

Formerly FRB Industries established 1981

BYRNES ENTRANCE TECHNOLOGY PTY LTD ABN 36 099 717 067

Unit 4, 15 21-Bay Road, TAREN POINT NSW 2229 AUSTRALIA

Tel: (02) 9531 5559 Fax: (02) 9531 5551 Email: info@byrneset.com.au Web: www.byrneset.com.au

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

Architectural Specification for Automatic Sliding Door Operator Model BET WD2201

Automatic doors shall be single/bi-parting/single telescopic/bi-parting telescopic sliding type door operator, with programmable self-calibrating microprocessor, heavy duty and high performance type BET/WD2201 as supplied and installed by Byrnes Entrance Technology Pty Ltd, Tel: (02) 9531 5559 Email: info@byrneset.com.au

General description: The drive system shall consist of a maintenance free, heavy-duty asynchronous motor with frequency converter and microprocessor suitable for 240 VAC, control system, without the need for step down transformers. Door drive shall be toothed fibre belt type for silent and service free operation (chain not acceptable).

End position dampening shall be totally controlled via the microprocessor for accurate slow down of door movement; even if power fails during full speed of operation (Limit switches are not acceptable).

Bi-parting door opening speed is adjustable up to a maximum of 160cm/sec or single door leaf speed of 80cm/sec.

The operator when first switched on shall automatically adjust to its opening and closing positions (software pre-set for open and close positions not acceptable) and must be capable of moving and precisely controlling the door leave (s). Door track shall be hard anodised aluminium replaceable heavy-duty track, door carriages equipped with moulded track rollers at least 55mm diameter with high quality ball bearing and with adjustable upthrust rollers and door hangers.

Safety: Automatic safety reversing function is inbuilt to ensure automatic reversing of door(s) if obstructed in either direction. Also specifier to select one of the following additional mandatory safety devices:

- BET/18 Dual Photo-electric safety beams, sun resistant type, which provide safety whilst doors operate, to prevent door (s) from closing if doors is obstructed, one set of beams located at up to 200mm from finished floor level and the second set of beams located at between 600mm to 1000mm from finished floor level.
- BET/ACTIV 8 Combined Motion and safety sensor, for transom or pelmet surface mounting.
- BET/MA Electric Floor Mat Switch, fully moulded, colour black, maximum admissible intermittent load of 70kgs/cm².

Control Functions: Selection of door function is via standard control panel with LED display, mounted adjacent to the door or in a remote location, and shall incorporate the following adjustment facilities accessible to the authorised end-user, without the need for adjustment by service personnel:

OFF: Door closed and locked (electric lock is optional).

AUTO: Automatic operation.

AUTO RED: Automatic operation with reduced aperture width.

EXIT: Closing time mode (outside sensor turned off).

OPEN: Door stays open, either at full or reduced opening width.

- Opening speed.
- Closing speed.
- Aperture width.
- Stay open time with full aperture width.
- Stay open time with reduced aperture width.
- Selectable coded access to control panel, to stop unauthorised interference with settings.
- Automatic reverse and reset sensing in both directions (programmable pressure sensing to be standard) if door leaf hits an obstruction in either direction, door is to stop and follow programmed command.
- Control panel shall display via sequence of flashing LEDs any fault condition that is likely to occur.

Emergency Operation: Operator shall be fitted with stand-by power module (for a pre-determined period) to allow door to operate in the event of a power failure with auto supervision of battery condition (spring not acceptable).

Electric Locking: (Optional - specifier to delete if not required). The operator shall be fitted with an electro-magnetic, bi-stable electric lock, which engages on a horizontal plane with adjustable cams to provide locking to both door trolleys. Systems that use motor locks and batteries are not acceptable.

Interfacing: To enable interfacing, the operator must have the following provisions without any modification.

- Emergency OFF push button (resetting can be either automatic, key or push button).
 - Gong activation (bell duration programmable).
 - Door open indication.
 - Door closed indication.
 - Door closed and locked indication.
 - Key switch (with programmable delay time if key switch is remote from door).
 - Malfunction light indication.
 - Building management system interface via RS485.
- * Options e), f), g) & h) with added I/O module.

Supply Voltage: 240 VAC, 50Hz, 10 amp single phase GPO provided by others, above left hand side of operator.

Door Activation: Select from the following options, specifier to select as required:

- BET/EAGLE 5 Motion Sensor(s), for transom or pelmet surface mounting.
- BET/EAGLE 5/C Motion Sensor(s), for ceiling flush mounting.
- BET/ACTIV 8 Combined Motion and safety sensor, for transom or pelmet surface mounting.
- BET/MA Electric Floor Mat Switch, fully moulded, colour black, maximum admissible intermittent load: 70kgs/cm².
- BET Impulse keyswitch, wall or mullion mounting, located outside.
- BET/14 EMERGENCY EXIT switch, wall or mullion mounting, located inside.

Compatible with access control systems, card readers, intercom systems and other activation equipment.

Proprietary Item supplied by: Byrnes Entrance Technology Pty Ltd Email: info@byrneset.com.au

- **NSW:** Unit 4, 15-21 Bay Road, TAREN POINT, NSW 2229 Tel: (02) 9531 5559 Fax: (02) 9531 5551
- **QLD:** Unit 14, 37 Blanck Street, ORMEAU, QLD 4208 Tel: (07) 5549 2236 Fax: (07) 5549 2099
- **ACT:** PO Box 555, FYSHWICK, ACT 2609 Tel: 0401 142 517