# EDORA 03A36 3 Wing Automatic Revolving Door

## Project: University of Manchester, Samuel Alexander Building

## Specification

**Dimensional details**

| | |
|---|---|
| Overall diameter | 3600mm |
| Internal height | 2435mm |
| Canopy height | 300mm |
| Overall height | 2735mm |

**Operation**

Automatic RD-03 revolving door operator fitted on a modular designed frame mounted within the canopy. The operator is controlled by a Siemens noiseless servomotor and incorporates an ABS type electronic adjustable braking system. A programmable microprocessor controls the activators, safety devices and optional accessories as fitted. A touch screen digital control panel is mounted on the canopy of the revolving door, giving the user 5 defined functions: Continuous rotation, Automatic on approach, Exit only, Manual and Closed. (This is normally mounted on the right hand inner canopy cover) The door rotation is adjustable between 1-4 r.p.m. (British Standard regulations apply)
The microprocessor has an automatic diagnostic feature, which constantly checks all the installed components and reports for the service engineer a history of faults or errors with the door operation or use. The control panel will indicate the next service to be carried out.

The central drive shaft is mounted on a ceiling bearing and a secured floor bearing for fixing to most types of floor finish. The revolving leaves are fixed to the shaft by way of a spider attachment top and bottom.

**Activation**

2 No motion sensors are fitted to the face of the canopy for entry and exit.

**Drum Safety Device**

Compressible rubber nosed safety contact strips fitted to the leading edge of the drum wall. If activated the door will stop, when the obstacle is removed the door continues rotation at normal speed. A horse hair long life brush surrounds the wings of revolving doors, with its electrostatic load to keep the dirt, air, noise and unwanted items outside. Because of these brushes, the wings move freely inside drum of the revolving doors.

**Safety Sensors**

1No pair of safety sensors mounted on the canopy rim on the right hand side of the entrance and exit. An Infra-Red curtain of light projects down the drum wall rubber nosing and will stop the door rotation when the beam is broken. Normal operation is resumed if the obstacle is removed.

**Bottom Door Safety Device**

Compressible rubber nosed safety contact strips fitted to the bottom rail of the door leaf. If

activated the door will stop, when the obstacle is removed the door continues rotation at normal speed.

**Emergency Stop Button, Inner**
A red emergency button fitted to the inner drum wall, when activated will immediately stop the door, twist to re-set and resume normal operation.

**Disabled Push Button, Inner**
A flush mounted button engraved with the wheelchair logo fitted approximately 900mm above finished floor level on the inner drum wall, when activated the rotation will be reduced to a default speed of 2 rpm (programmable) for approximately one complete revolution, after which the door will resume normal speed.

**Night Locking Doors**
One pair of manual night locking doors with a central deadlock, for securing the entry opening of the revolving door.

**Ceiling**
The internal ceiling is constructed in aluminium segments secured from within the door drum, to allow easy access during maintenance. Each segment is polyester powder coated to White RAL 9010.

**Finish**
Standard RAL Polyester Powder Coating from the K5 range of colours to the door leaves, drum and canopy fascia.

**Glazing**
The drum walls are internally glazed in laminated safety glass, with 4+4mm glass and clear laminate polyvinyl butyral (PVB). The door leaves are glazed in laminated safety glass with 4+4mm glass and clear laminate polyvinyl butyral (PVB).

**Roof**
External 180° watertight roof

**Mat Ring**
1 No. Stainless steel mat ring to suit the diameter of the revolving door manufactured from 30mm x 20mm box section.