

Introduction

EDM RD curved automatic sliding door operators are the perfect choice for that prestige entrance solution. Uniquely designed, curved automatic sliding doors will make your main entrance individual and enticing. Utilizing the same user-friendly digital NII control system combined with 30NII Motor drive, we achieve high performance of large curved commercial heavy doors. Performance and reliability is assured up to 300kg x2 leaf.

Ease of Installation

- With modular plug-in parts installed directly from the front onto our base rail, any component can be moved during or after installation. Components can also be added or replaced with ease later, therefore time spent on installation or servicing is greatly reduced.
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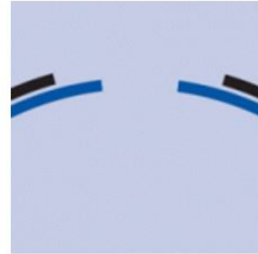
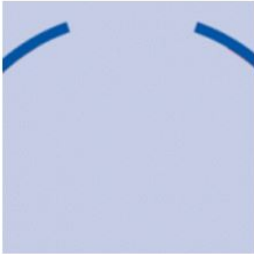
EDM RD Operator





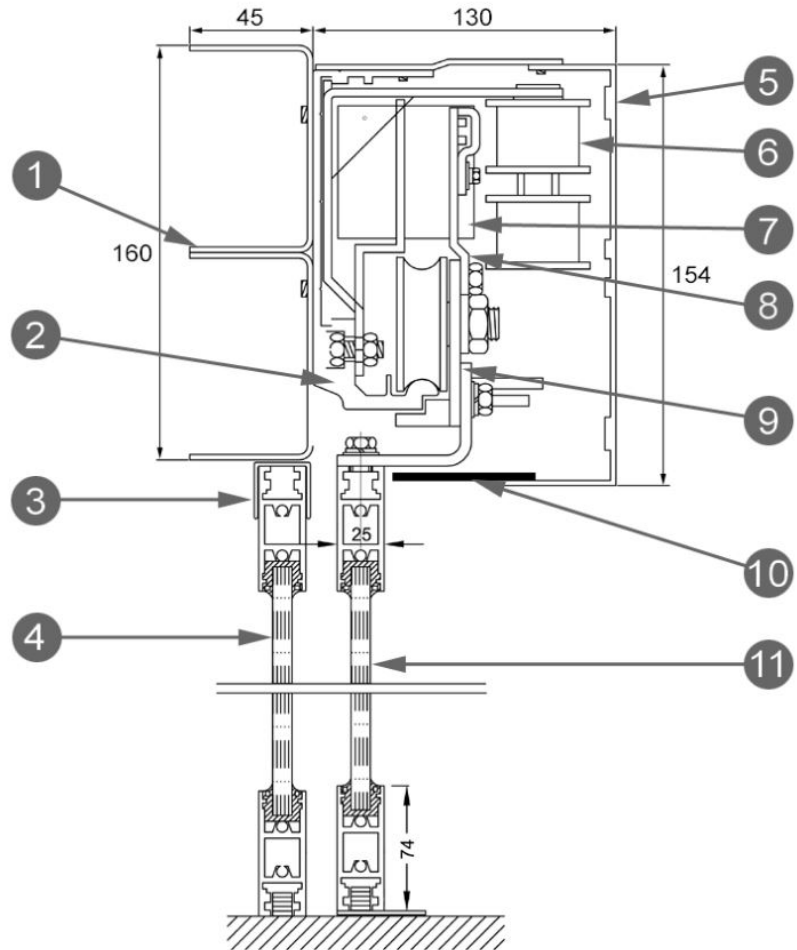
Configuration

- Using two sets of Bi-part doors in opposite positions will achieve an enclosed and stylish entrance. Utilizing the interlock feature, environmental control, pedestrian traffic management or secure containment can be realized. MICOM offer rail configurations from 1500mm radius single leaf, to greater double leaf radius dimensions to specification.



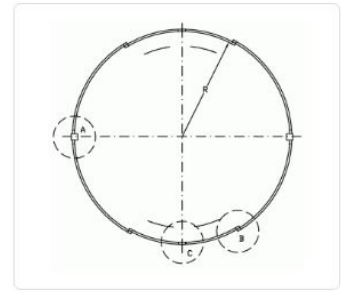
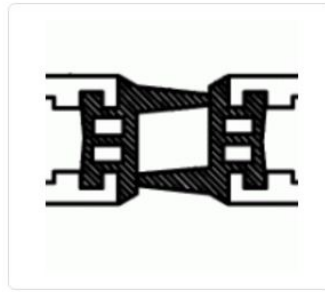
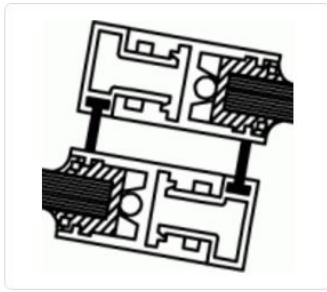
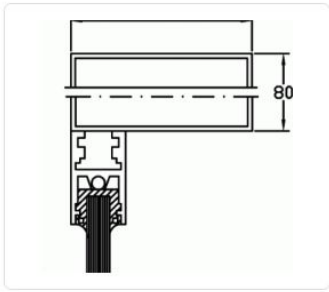
EDM RD Profile

1. Support Structure (optional)
2. Base Rail
3. U Channel for fixed screen
4. Fixed Screen
5. Cover
6. Belt Guide – Roller Assembly
7. Control Box
8. Belt Bracket Link Assembly
9. Hanger Roller Bracket Assembly
10. Brush
11. Moving Screen



Door Details

- Detail A – Connection of fixed screen to wall / support structure
- Detail B – Insulation between moving and fixed screen
- Detail C – Insulation of door closed position

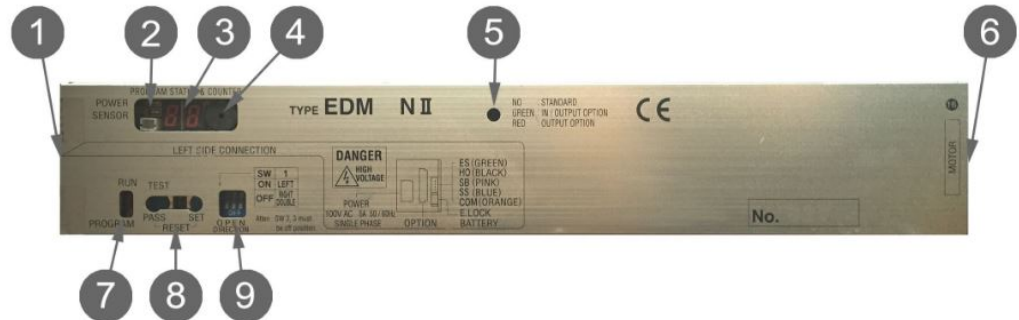


Full Door Control

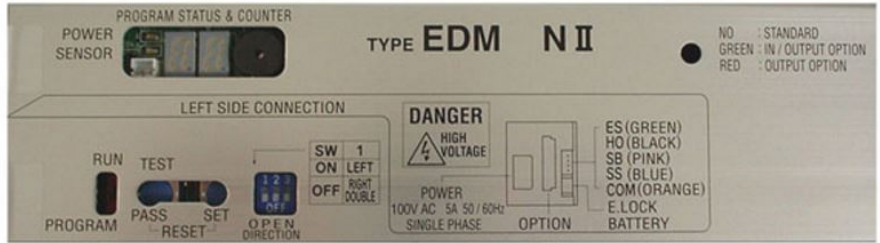
- Initial door optimization is automatic, all standard parameters (and extension applications) can be adjusted easily utilizing the LED Digital input display provided as standard without the need for a hand held PALM or expensive software. Via the 2 digit LED display, access to operational history, cycle count and error analysis is possible. Door parameter data can be simply reset to default settings when required.

Control Panel & Adjustment

1. Power and sensor harness input
2. Power and activation LED
3. 2 Digit LED display
4. Buzzer
5. Extension board LED (option)
6. Motor harness input
7. Programme / Run
8. Test / Pass & Set (Reset)
9. Right / Left opening



- SENSOR LED – Flashes Green when activation signal is received
- POWER LED – Red when power is on to operator
- PROGRAM STATUS & COUNTER LED – Visual display provided for operational setting and adjustment
- Buzzer – Audible indication of error status (optional)
- Extension Board LED – Through this hole, it is possible to identify if an extension card has been fitted
- Programme / Run Switch – Utilized to enter the programming mode
- TEST / PASS & SET – Programme Buttons. Provides stepped access to parameters, functions, applications and reset
- DIP Switch – Quickly adjustment of open direction between Right or Left



Control Box

- Function & Parameter Adjustment – Microprocessor technology provides exact door control, wide function input options and digital setting adjustment.
- Memory – Long term memory retention of operational parameters when mains power is off. Settings can be rewritten up to 1 billion times.
- Extended Functions (i.o) – Aside from standard function common to all other sliding door operators, when incorporating expansion (i.o) board, EDM NII Series offers many more door operation possibilities.



Standard Inputs

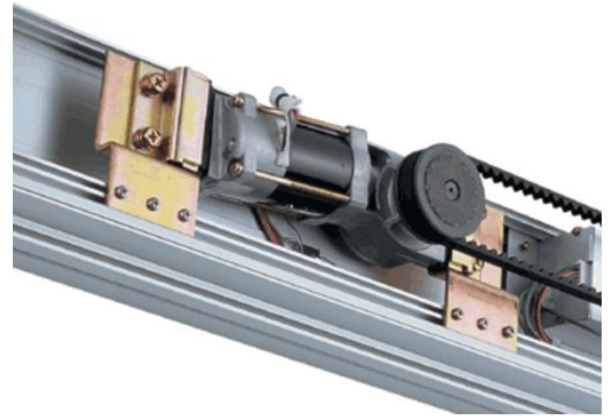
- Sensor / Activation Signal (SS)
- Threshold Protection (SB)
- Hold Open (HO)
- Emergency Stop (ES)
- Panic Open (PS)
- Ratchet Switch (RS) (Flip Flop)
- Partial Open (HS)
- Side Screen Safety (AS)

Function Summary

- Digital Input Programming
- Wide Operational Parameter Setting
- System Error Diagnosis
- Self-protection against Damage
- Flexible Partial Open (13%~98%)
- Press Open / Close Feature
- Special Operation Functions Incorporated
- Reversible Circuits (NC/NO)

Motor Gear

- Compact and powerful motor. High speed acceleration and deceleration is controlled.
MICOM enclosed hypoid brushless motor gear ensures safe and long term reliable operation for enhanced operational cost efficiency.
- High Speed Motor Control (640mm/s)
- 150kg-3000kg Load Capacity
- Compact High Precision Gear Box
- Near Silent Acceleration and braking
- Smooth and controlled operation



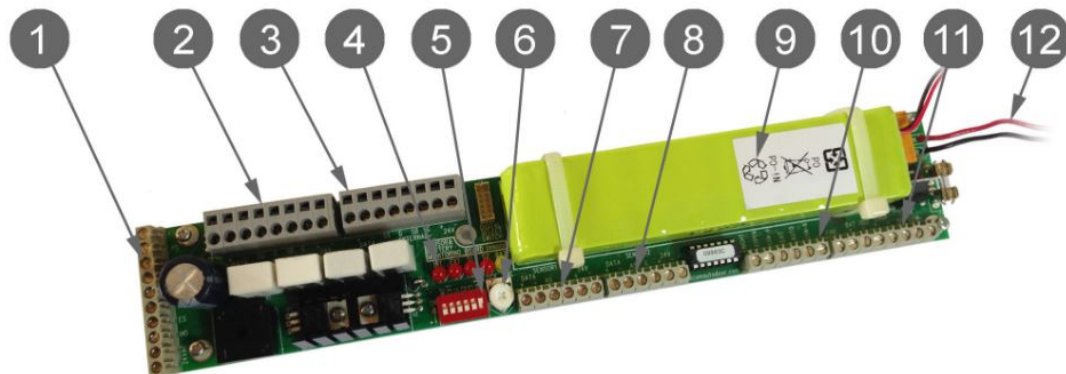
Monitoring & Safety – (SMB Option)

- SMB is a SENSOR & BATTERY MONITORING SYSTEM which offers compliance with EU Norm EN16005 across our range of EDM Series automatic sliding door operators. A modular system for enhanced automatic door safety. Simple to install, offering added protection and multi-functional features which include:
 - Conforming to EN16005
 - Individual Sensor Monitoring & Safety
 - Battery Functions & Monitoring
 - Key Function Selector Switch
 - Individual Sensor Inputs & Wiring
 - LED Indicator (Mode & Error)
 - Emergency Open Input
 - 24VAC Power Input (Isolated Transformer)
 - Night Mode (Switch) Input
 - Secure E-Lock Functions

SMB Features

1. Signal Input Connection
2. External Sensor Input
3. Internal Sensor Input
4. LED Monitoring Error & Battery Indicator

5. DIP Switch – Sensor & Battery Monitoring On / Off
6. E-Lock Timer
7. Side Screen Input 1
8. Side Screen Input 2
9. Battery Pack
10. Selector Switch Connection
11. E-Lock Input / Output
12. Battery Connector (Not shown)



Key Selector Switch

- A Rotary Key function selector switch is supplied together with SMB.
- SMB will not function without our selectors and it is therefore an integral part of our safety in design.
- Connected into the SMB hub, all signals are controlled for greater ease of operation.
- Specifically designed so selection can only be performed by an authorized personnel using secure key provided.

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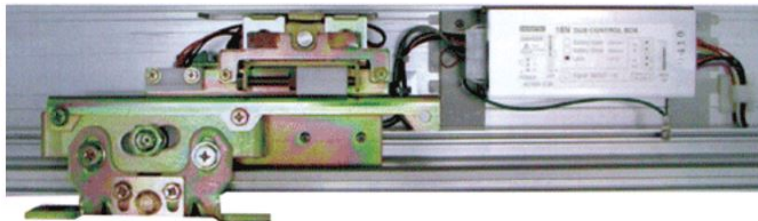
Rotary Key Selector



1. Closed / 2. Exit / 3. Automatic / 4. Hold Open (Emergency – Anti Panic Open Button – Option)

Electro-Mechanical Locking & Battery (Standard Anti-Panic Option)

- Battery – An Anti-panic Battery system is available in several formats providing emergency power in case of power failure such as Battery Open (BO) and Battery Close (BC), with Battery Monitoring System (BMS) is available.
- Electromagnetic Locking – EDM NII Electromagnetic locking 'Fail Secure' (LK1) or 'Fail Safe' (LK2) options are available and can be combined with our battery systems to meet safety and security requirements world wide.



Delivery

EDM RD – Available from Japan or EU in formats as follows:

- **'COMPLETE OPERATOR'** consisting of: Curved Base Rail, Curved Cover, Control Box, Motor Gear Box, End Covers, Sensor Harness, Wiring Terminal, Tooth Belt, Belt Guides, Belt Bracket Link Assembly, Belt Connection Single & Double Door, Idle Pulley, Hanger Roller Brackets x4 and End Stoppers.
Pre-assembled Operator – Rail configurations from 1500mm radius single leaf, to greater double leaf radius dimension specification are available. All wiring and assembly is complete.
- **'FULL KIT'** – (Without Rail & Cover) consisting of: Control Box, Motor Gear Box, Sensor Harness, Wiring Terminal, Tooth Belt (7M), Belt Bracket Link Assembly, Belt Connection Single & Double Door, Idle Pulley Assembly.
Component Building KIT – As a company already familiar with the manufacturer of doors and aluminium profiles – we offer you the ability to design and assemble your own curved door operator housing for use with our operating system allowing cost saving at source.
- **RAIL & COVER – (Material Only)** – Standard Rail : Radius = 1500mm minimum
Rail configurations from 1500mm radius single leaf, to greater double leaf radius dimension specification are available.
- **Curved Door Profiles** – Curved door profiles complete with curved glass are available to fit specified radius.
Standard finish: Clear anodized or white. RAL colour on request.
- **Support Structure** – An additional support structure can be supplied on request.