

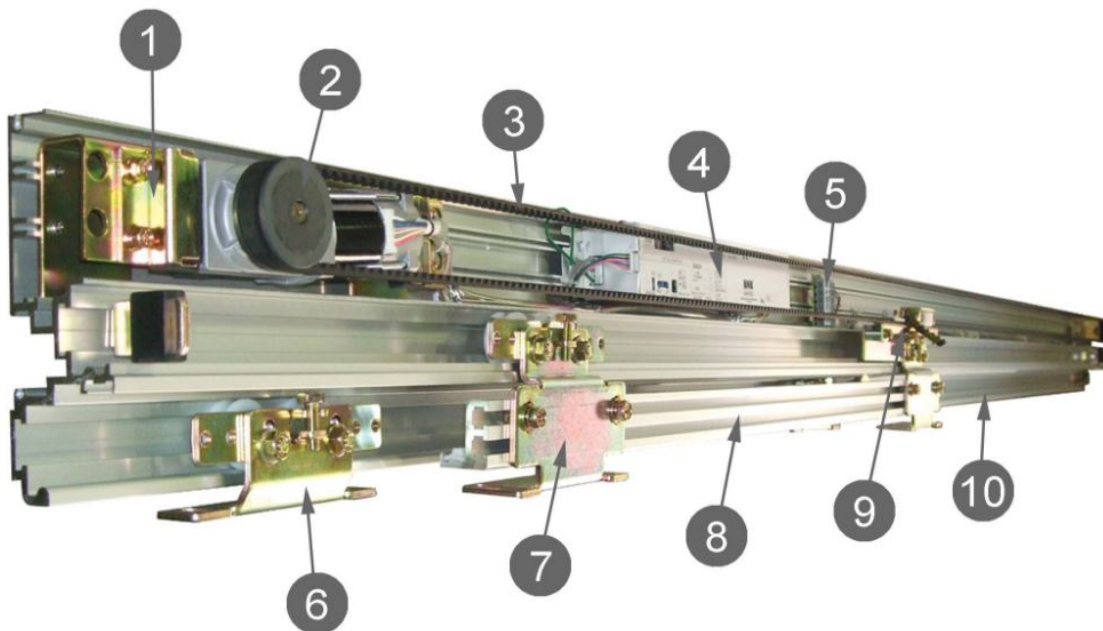
Introduction

EDM NII-2S automatic telescopic sliding door operators forms the basis to any dual door automation solution. Specially designed for narrow entrances or when an wider clear opening is required. Offering 60% free passage space, 25% more than traditional single or bi-parting sliding doors. This carefully engineered operator offers stability and strength adapting effortlessly to varied door widths and weight capacities.

The enhanced quality of all MICOM door operators means long term, reliable service with simple maintenance, for effective operational cost efficiency. Part of the EDM NII Series range, EDM NII-2S_2D automatic telescopic sliding door operator incorporates the same EDM NII operating system and high quality features as standard.

Ease of Installation

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



EDM NII 2S Telescopic

1. Motor mount with Vibration Rubber
 2. Motor gear box
 3. Tooth belt
 4. Control box
 5. Terminal input
 6. Hanger roller bracket (Low speed door)
 7. Hanger roller bracket (High speed door)
 8. Rack & pinion door connecting bracket
 9. Belt tightening bracket
 10. Base rail
-

Full Door Control

- From the very first power on, initial door optimisation is automatic. Utilising the LED Digital input display provided as standard (without the need for a hand held PALM or expensive software) all standard parameters and extension applications can be adjusted easily. Access to operational history, cycle count and error analysis is possible. Door parameter data can be simply reset to default settings when required.

Full Door Control

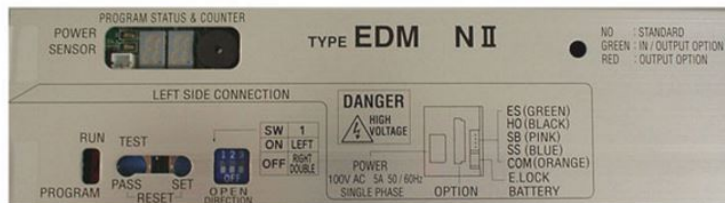
- From the very first power on, initial door optimisation is automatic. Utilising the LED Digital input display provided as standard (without the need for a hand held PALM or expensive software) all standard parameters and extension applications can be adjusted easily. Access to operational history, 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



Summary

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)

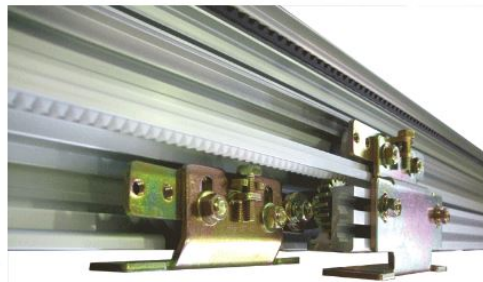
Motor Gear

- 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 (750mm/s)
- 45kg per leaf x2 (90kg) load capacity
- Compact High Precision Gear Box
- Near Silent Acceleration and braking
- Smooth and controlled operation



EDM NII-2S – Rack & Pinion Technology

- Our unique telescopic sliding door operator design remains compact, thanks to the use of rack and pinion technology. Movement of low and high speed doors are smooth and controlled.

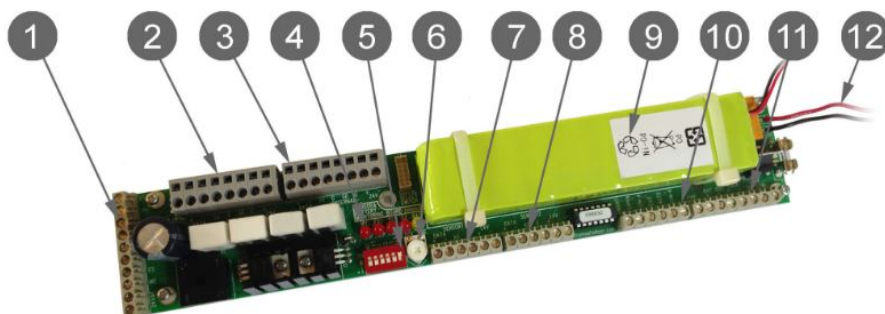


Monitoring & Safety – (SMB Option)

- SMB (Sensor Monitoring Battery) 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.
- Connected into the SMB hub, all signals are controlled for greater ease of operation.
- Specifically designed so selection can only be performed by authorised personnel using secure key provided.
- SMB will not function without our selector as it is an integral part of our safety in design.

Key Selector Switch



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

Rotary Selector Switch (Option)

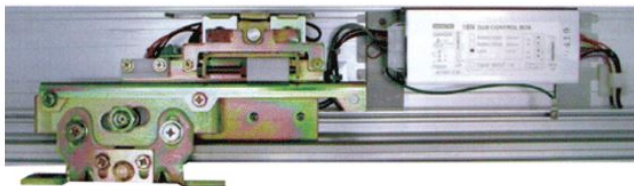
EDM NII-2S can accept a stand alone Rotary Selector switch.



1. Closed / 2. Exit / 3. Automatic / 4. Hold Open (Exit – 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 NII-2S Telescopic – Available from Japan in formats as follows:

- **'COMPLETE OPERATOR'** consisting of: Base Rail, Cover, Control Box, Motor Gear Box, End Covers, Sensor Harness, Wiring Terminal, Tooth Belt, Belt Bracket Link Assembly, Belt Connection Single & Double Door, Idle Pulley, Hanger Roller Brackets x4 and Stopper x2
(COMPLETE OPERATOR – Standard Rail Length: Single Leaf – 2000mm, Double leaf – 6000mm)
- **RAIL & COVER – (Material Only)** – Standard Length: 3000mm – 6000mm Available

Accessories

EDM NII-2S when used together **with SMB** as a complete operator is designed for use with a new range of sensors such as BEA IXIO-S & Optex OA-Axis-T.





EDM NII-2S when used **without SMB** can also accept all current sensors available in the world market today, such as BEA Eagle & Optex OA-203C together with threshold safety beam protection.

