KAD-ED250A

Fire Rated, Satin Anodised Aluminium

Description

Dormakaba Fully Automatic Drive System for Automatic Swing Doors up to 190kg Leaf Weight when up to 1,600mm Wide



Product Summary

Electro-mechanical fully automatic drive system for automatic swing doors. Internal or external, single or double leaf doors, fire rated or non fire rated, up to 400kg leaf weight and up to 1,600 mm wide

Certification

European Norm	hEN1154
Product Classification	③⑧④①①⓪ ⑥
EC Certificate of Conformity No.	See DOP
Certifire No.	CF844
Declaration of Performance	CE-E-004
Other Test Evidence	n/a

BIM Assist™

CE

Certifire

BC(A)R Assist™*

Guarantee **1 Year**

Last Reviewed 28/09/2026

* ROI Only

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Description

Dormakaba Fully Automatic Drive System for Automatic Swing Doors up to 190kg Leaf Weight when up to 1,600mm Wide

Features

- Electro-mechanical fully automatic drive system for automatic swing doors. Internal or external, single or double leaf doors, fire rated or non fire rated up to 190kg leaf weight and up to 1,600 mm wide and up to 400kg leaf weight and up to 1,100 mm wide
- Door can be opened under power or be used as a conventional manual swing door
- Power assist function provides servo assistance, reducing the effort to manually open the door
- Push & go function allows the door to open automatically when the door is moved manually by 4°
- Compact slim drive of only 7 cm high and can move doors up to 400kg leaf weight comfortly and quietly
- All door parameters e.g. opening and closing speed as well as latching action, can be adjusted
- Fire tested and Certifire approved
- Push version with slide arm or pull version with side channel

Technical Characteristics

- Primary
  - Power Consumption: 240 watts
  - Closing Force EN 1154: EN 4-6, adjustable
  - Max, Door-Leaf Weight for Lintel Depths of up to 300mm: 400kg (depending on the door width)
  - Max, Door-Leaf Weight for Lintel Depths of 301 to 500mm: 160kg (depending on the door width)
  - Door-Leaf Width: 700-1,600mm
  - Door-Leaf Width for Fire Protected Doors: 700-1,400mm
  - Opening Speed 0-90°: 3-12 seconds*
  - Closing Speed 90-0°: 4-21 seconds*
  - Axle Extension: 20/30/60/90mm
  - Lintel / Reveal Depth for Slide Channel: +/-30mm
  - Lintel / Reveal Depth for Slide Channel CPD: 30-60mm
  - Lintel / Reveal Depth for Standard Arm: 0-500mm
  - Lintel / Reveal Depth for Standard Arm & Fire Protection: 0-350mm

*Depending on the door panel weight, it is automatically limited in the low energy mode. Maximum speeds are achieved in full energy mode, with a low door panel weight and a taught opening angle of at least 95°

- General Specifications
  - Opening Angle: Max. 110°
  - Dimensions (W x H x D): 685 x 70 x 130mm
  - Min. Clearance Between Hinges (double-leaf systems): 1,400mm
  - Min. Clearance Between Hinges for ESR (double-leaf systems): 1,450mm
  - Weight of Single Leaf Version: 12kg
  - Power Supply for External Accessories: 24 V DC +/-10%, 1.5 A
  - Manufactured to ISO 9001: Yes
  - Environmental Product Declaration in Accordance with ISO 14025.

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Programme Holder - Institute Construction and Environmental e.V.
Declaration Number - EPD-DOR-2012211-E: Yes

- Integrated Functions
  - Hold-open Time: 30s, 180s (optional)
  - Blocking Behaviour: Reversing/Door Closer Function
  - Locking Feedback Contact: Motor lock
  - Wind Load Control: Up to 150 N
  - Voltage - Independent Braking Circuit: Adjustable via potentiometer
  - Electronic Latching Action Pulse: Force adjustable
  - LED Status Indicator:
    - Green: Operating voltage indicator
    - Red: Malfunction indicator
    - Yellow: Service interval indicator
  - Integrated Program Switch:
    - Off
    - Automatic
    - Permanently open
    - Exit only (optional only for single leaf systems)
  - User Interface with Information Display: Status indicator and parameterisation
  - Slot for Dormakaba Upgrade Cards: Extension of functional range
  - Update Interface: Firmware update
  - TMP – Temperature Management Program: Temperature-related overload protection
  - IDC – Initial Drive Control: Driving phase optimisation
  - Cycle Counter: 0 – 1,000,000 (reasonably subdivided)
  - Power Assist Function: Servo-supported when opened manually
  - Push & Go Function: Door open when moved manually by 4°
- Inputs, Terminals Max. 1.5mm²
  - Potential-Free Activator: Inside and outside (NO contact)
  - Energized Activator: 8-24 V DC/AC +10%
  - Night -/Bank (Key Switch): NO contact/NC contact
  - Safety Sensor: Hinge side and opposite hinge side (NC contact)
  - Test Signal for Safety Sensor: Hinge side and opposite hinge side
  - Emergency-Off Pushbutton / Lock Switch: NC contact/NO contact
- Outputs, Terminals Max. 1.5mm²
  - Potential-Free Door Status Contact: Door open, door closed, malfunction
- Required Operating Conditions
  - Ambient Temperature: -15 to + 50°C
  - Only Suitable for Dry Environments: Relative humidity max. 93% Non – condensing
  - Power Supply: 230 V AC 50 Hz +/- 10%
  - Class of Protection: IP20

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Standards

- This product meets / surpasses the following:
- EN 16005: The European standard EN 16005 sets out the design requirements and testing methods used to ensure the safe use of automatic doors
- EN 13849-1: Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design
- EN ISO1200: Safety of machinery — General principles for design — Risk assessment and risk reduction
- EN 60950-1: Information technology equipment - Safety - Part 1: General requirements
- EN 60335-1: Household and similar electrical appliances. Safety. General requirements
- EN 61000-3-2: Electromagnetic compatibility (EMC)
- EN 61000-3-3: Electromagnetic compatibility (EMC)
- EN 61000-6-2: Electromagnetic compatibility (EMC)
- EN 61000-6-3: Electromagnetic compatibility (EMC)

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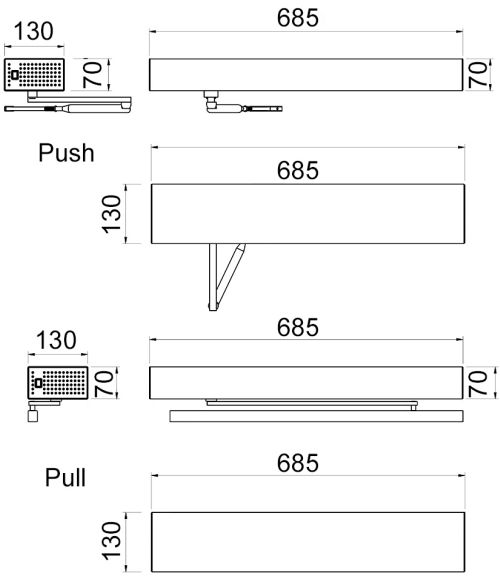
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Dormakaba Fully Automatic Drive System for Automatic Swing Doors up to 190kg Leaf Weight when up to 1,600mm Wide





Specification Text

SWING DOOR OPERATORS
· Standard: To BS EN1154.
- Door closing devices to fire/ smoke control doors: CE marked.
· Manufacturer: Dorma
- Product reference: KAD-ED250A
· Type: Dorma Fully Automatic Drive System for Automatic Swing Doors up to 400kg Leaf Weight and up to 1,600mm Wide
· Power size: 4-6
· Other functions: n/a
· Casing finish: [SPECIFY FINISH]
· Operational adjustment:
- Variable power: Matched to size, weight and location of doors.
- Latched doors: Override latches and/ or door seals when fitted.
- Unlatched doors: Hold shut under normal working conditions.
- Closing against smoke seals of fire doors: Positive. No gaps.
PERFORMANCE SPECIFICATION FOR SWING DOOR OPERATORS
· Standard: To BS EN1154.
- Door closing devices to fire/ smoke control doors: CE marked.
· Minimum classification grades:
- Category of use: 3
- Durability: 8
- Door closer power size: 4-6
- Suitability for use on fire/ smoke doors: 1
- Safety: 1
- Corrosion resistance: 0
· Type: Dorma Drive System for Automatic Swing Doors up to 400kg Leaf Weight and up to 1,600mm Wide
· Other functions: n/a
· Casing finish: [SPECIFY FINISH]
· Operational adjustment:
- Variable power: Matched to the sizes and weights of doors.
- Latched doors: Override latches and/ or door seals when fitted.
- Unlatched doors: Hold shut under normal working conditions.
- Closing against smoke seals of fire doors: Positive. No gaps.

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