

**Description**

Dormakaba Low Energy Drive System for Automatic Swing Doors up to 100kg Leaf Weight and up to 1,100mm Wide



**Product Summary**

Electro-mechanical low energy drive system for automatic swing doors. Internal or external, single or double leaf doors, fire rated or non fire rated, up to 100kg leaf weight and up to 1,100 mm wide

**Certification**

European Norm	hEN1154
Product Classification	③⑧④①①① ②
EC Certificate of Conformity No.	See DOP
Certifire No.	CF844
Declaration of Performance	CE-K-007
Other Test Evidence	n/a

**BIM Assist™**

**CE**

**Certifire**

**BC(A)R Assist™\***

**Guarantee**

Last Reviewed

\* ROI Only

**1 Year**

07/11/2019

*For the purpose of continual product development, KCC reserves the right to change specifications without notice. Please accept all dimensions as approximate. E&OE. © KCC Group 2020.*

## Description

Dormakaba Low Energy Drive System for Automatic Swing Doors up to 100kg Leaf Weight and up to 1,100mm Wide



### Features

- Electro-mechanical low energy drive system for automatic swing doors. Internal or external, single or double leaf doors, fire rated or non fire rated up to 100kg\* leaf weight and up to 1,100 mm wide
- Low energy solution where the door is designed to be operated manually or automatically by the activation of a push pad for example
- Compact slim drive of only 7 cm high and can move doors up to 100kg\* leaf weight comfortably 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

*\* Up to 160kg can be achieved, yet closing speeds are limited to 25 degrees per second*

### Technical Characteristics



- Primary
  - Power Consumption: 120 watts
  - Closing Force EN 1154: EN 2-4, adjustable (EN 3-4 allowed for fire doors)
  - Max, Door-Leaf Weight for Lintel Depths of up to 300mm: 100kg
  - Door-Leaf Width for Single-leaf version:
    - 700-1,100mm hinged
    - 770-1,100mm pivoted (based on 70 mm pivot centres)
  - Door-Leaf Width for Double-Leaf Version:
    - 1,450-2,200mm hinged
    - 1,590-2,200mm pivoted (based on 70 mm pivot centres)
  - Max. Opening Speed: 27° per second
  - Max. Closing Speed: 27° per second
  - Axle Extension: 30mm / 60mm
  - Lintel Depth for Slide Channel: +/-30mm
  - Lintel Depth for Standard Arm: 0 – 300mm
- Parameters
  - Opening Angle: Max. 110°
  - Latching Action: Adjustable from 7° - 0°
  - Hold-Open Time: 0 – 30 seconds
  - First Entry-Last Exit Hold-Open Time: 0 – 30 seconds
  - Blocking behaviour: Reversing closing cycle / door closer function
  - Locking Feedback Contact: Motor lock/electric strike
  - Working Point of Wind Load Control: Total load of max. 50Nm
  - Voltage-Independent Braking Circuit: Adjustable via potentiometer
  - Electronic Latching Action Pulse: Force Adjustable
- General Specifications
  - Dimensions (W x H x D): 685 x 70 x 130mm
  - Min. Clearance Between Hinges (double-leaf systems): 1,450mm
  - 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

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- Integrated Functions
  - LED Status Indicator:
    - Green: 24V DC voltage indicator
    - Red: Error code
    - Yellow: Service interval expired
  - 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 Dorma Upgrade Cards: Extension of functional range
  - Update Interface: Firmware interface
  - TMP – Temperature Management Program: Temperature-related overload protection
  - IDC – Initial Drive Control: Driving phase optimisation
  - Cycle Counter: 0 – 1,000,000 (reasonably subdivided)
- Inputs, Terminals Max. 1.5mm<sup>2</sup>
  - Potential-Free Activator: Inside and outside
  - Voltage Input/First Entry Last Exit: Max. 8 – 24 V AC/DC +10%
  - First Entry Last Exit (Key Switch): NC contact/NO contact
  - Safety Sensor: Hinge side and opposite hinge side
  - Test Signal for Safety Sensor: Hinge side and opposite hinge side
  - Emergency-Off Pushbutton / Lock Switch: NC contact/NO contact
- Outputs, Terminals Max. 1.5mm<sup>2</sup>
  - Potential-Free Door Status Contact: Door open, door closed
- 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

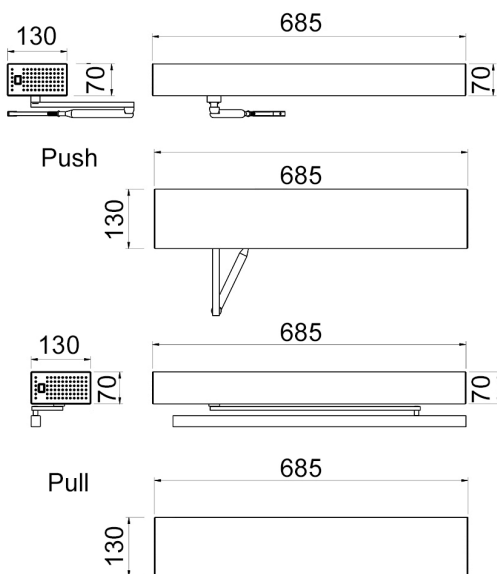
### Standards



- 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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Dormakaba Low Energy Drive System for Automatic Swing Doors up to 100kg Leaf Weight and up to 1,100mm 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-ED100LE
- Type: Dorma Low Energy Drive System for Automatic Swing Doors up to 100kg Leaf Weight and up to 1,100mm Wide
- Power size: 2-4
- 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: 3-4
  - Suitability for use on fire/ smoke doors: 1
  - Safety: 1
  - Corrosion resistance: 0
- Type: Dorma Drive System for Automatic Swing Doors up to 100kg Leaf Weight and up to 1,100mm 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.
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