

DORMA ED 250



SWING DOOR OPERATOR AND SWING DOOR SYSTEM

PRODUCT FEATURES

With the ED 100 / ED 250 swing door operator Dorma Kaba offers an electromechanical swing door operator for various fields of application. The operator may be installed as a push version with standard arm assembly and as a pull version with slide channel.

- Modular design and variable functional range
- Door widths up to 1600 mm (ED 250)
- Door weights up to 400 kg (ED 250)
- New: with integrated smoke detector
- For single- and double-leaf swing doors
- May be installed as a push or pull version
- New: The smoke pressure ventilation function SPV ensures reliable drive behaviour even under varying pressure conditions in buildings.
- New: Evacuation function enables barrier-free evacuation in the event of an alarm.
- Can be extended by the integrated emergency power supply ED UPS, which ensures uninterrupted operation of the drive in the event of a power failure.

Wind load control

The ED 100 / ED 250 swing door operator is especially suitable for exterior doors that are subjected to varying wind loads and for interior doors separating rooms where different air pressures prevail.



GENERAL SPECIFICATIONS

Dimensions (W x H x D)	685 x 70 x 130 mm (Weight 12 kg)
Power:	230 V AC +10 % / -15 %, 50 Hz
Max. power consumption:	240 Watts
Power supply for external accessories	24 V DC +/- 10 %, 1.5 A
Opening angle	Max. 110°
Fire class:	Non rated
Class of protection:	IP 20
Closing force SS-EN 1154	EN 4-7 step-less adjustable
Max. weight of door leaf:	400kg (depending on the width of the door leaf)
Door-leaf width	700 – 1,600 mm
Opening speed 0 – 90°:	4* – 21 sec.
Closing speed 90 – 0°:	5* – 21 sec.

REQUIRED OPERATING CONDITIONS

Ambient temperature	- 15 - + 50 °C
Only suitable for dry environments	Relative humidity max. 93 % (non-condensing). Note: Can be supplied with weather cover (10007824)!

BASIC CONFIGURATION

Dorma ED 250 is "motion/push pull" activated. So it can operate the door without any options included.

Door Normally closed

This mode is standard setup for ED 250

Door Normally open

The ED 250 has a switch on the side of the unit to set the door in open position.

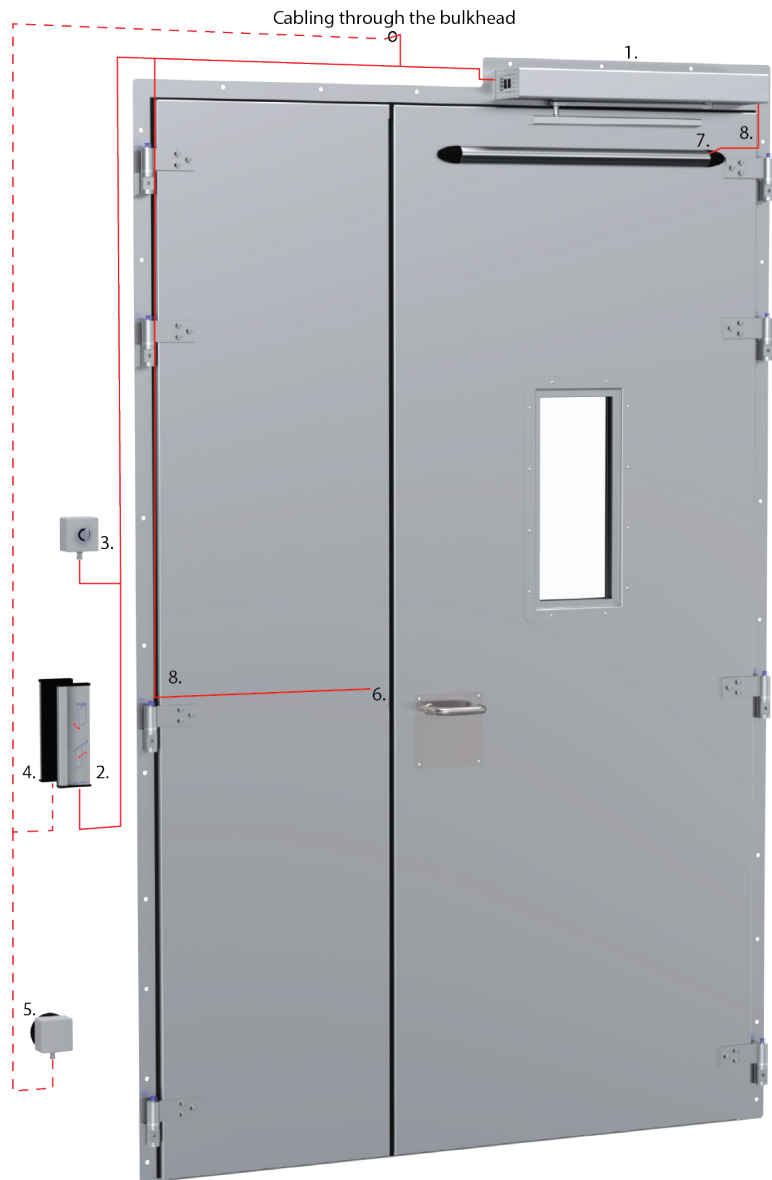
The system can also be supplied with a separate selector/button, to switch between open and closed mode.

ED 250 door drive system:

Push button operated system configuration with electric striker plate and safety sensor.

1. Power supply (drive unit)
2. Outside Push button
3. Outside Key switch/Hold open switch
4. Inside Push button
5. Panic Push button/foot switch (normally inside)
6. Electronic unlocking (electric striker plate)
7. Optic Sensors (option for automated systems and requirement for extra strong systems)
8. STEP frame cable transfer unit (Option for sensors on door leaf)

Note: Automation of the unit requires electric unlocking (electric striker plate or lock case). Electric unlocking inside a door leaf require a cable lead system inside the door leaf.



ED 250 can be supplied with a variety of configurations. All options have to be ordered In addition to the ED 250 Assembly. Below are some pre defined configurations that Baggerød have made.

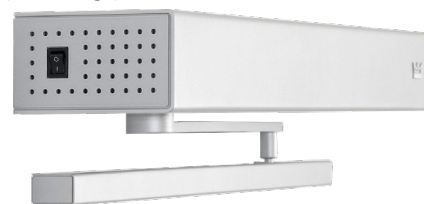
ED 250 DOOR OPERATION SYSTEMS

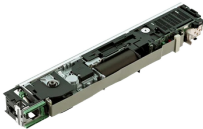
The main unit are motion operated, so when pull or push the door handle, the door opens, and stays open a short while before slowly closing. In addition to that you can add functionality and automation by adding push buttons etc.

There are two configuration of the main drive module:

Outside installation (pulling)

ED250 Assembly for outside installation (pulling motion):

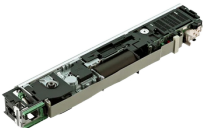


	Baggerød art. No.	Description	Manuf. art. No.
	40351	Electric unit ED250 LE, without front cover or arm.	29202311
	40350-1	Front Cover (Silver)	29241001
	10006131	Glide rail arm "pulling"	29275021
	40350-3	Power cable ED 100/250 230Vac with strain relief	29263001

Inside installation (pushing).

ED250 Assembly for Inside installation (pushing motion) - Max frame depth 225mm:



	Baggerød art. No.	Description	Manuf. art. No.
	40351	Electric unit ED250 LE, without front cover or arm.	29202311
	40350-1	Front Cover (Silver)	29241001
	10006154	Standard arm "pushing" 0-225 mm (silver)	29271001
	40350-3	Power cable ED 100/250 230Vac with strain relief	29263001

All options must be ordered separately (not included with the ED 250 drive).

OPEN/CLOSE SWITCHES

These switches have the same electronic but different design.

	40368	Elbow switch AK 108 in aluminium. For indoor and outdoor use. IP 67	90410090
	10012071	Elbow switch AK 207 in aluminium (Symbol marked without language) H=245, W=80, D=23mm, Material: Aluminum / ABS plastic Moisture-protected: IP class 67	7030000014471
	10002857	Push button/"Foot Switch" Heavy design with black plastic housing. Impact resistant plastic for application in heavily used areas. IP 67 (5026931332)	4355221
	10008885	Ex push button, Bartec.	282-1764
	ETO	Touch-free switch, Dorma ETO: Engineering to Order.	
	10011114	Ex combined push button and key switch, Bartec.	
	10002345	Pull-wire switch (ZT), complete. 10 A, 380 V DC, IP 65, (incl. brackets, cord, plastic ball end, for surface- mounting	90410020
	ETO	Electronic access control ETO: Engineering to Order.	
	ETO	Motion sensor for door operation. ETO: Engineering to Order.	

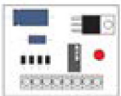
SPECIAL PURPOSE SWITCHES/SELECTORS

	10002399	Switch Elko 1 Pol, Dorma Used as Hold open switch	1411883 RS16/1P
	40381	Key switch NB 3-1 UPL	5054531332
	10002914	Key switch compl. Eaton	M22-WRS/KC11/ I216526
	10011114	Ex Key switch, Bartec.	
	10011113	Ex selector switch, Bartec.	

MOTION SENSORS FOR SAFETY:

	10005010	Flatscan LZR safety "Laser" Safety sensor for swing doors	86501300
	10003178	Prosecure OPTI SAFE, IR detector 750mm	7030000014106
	10005828	Prosecure OPTI SAFE, IR detector 900mm	7030000014107

TOILET OPTIONS:

	40380	WC occupied indicator. LED Light Red / Green 24V DC	5111631332
	10001373	LED light control relay 8-24V, for WC occupied indicator 17AA11	7005701423025

CABLE LEAD

	10005604	STEP frame cable transfer unit. For cable transfer from door frame into the door leaf.		ST1283
	10011971	Frame for cable lead		10011971

ACCESSORIES:

	40361	Strength/power upgrade card. Makes the unit stronger. This unit requires safety sensors!	29251020
	10008951	y-cable for use of 2 x safety sensors	7030000014108
	10007824	Weather cover for ED 250.	10007824
	10005470	Lock Case LK565/50 LH for use on ED 250 operated doors with micro switch (which signals the position of the latches). Assa Abloy.	9400071AB23
	10005469	Lock Case LK565/50 RH for use on ED 250 operated doors with micro switch (which signals the position of the latches). Assa Abloy.	9400071AA23

DISTANCE ADAPTERS/EXTENSIONS:

	2000275 10006740 10006991	Shaft adapter L=90mm, ED250 New type with spline Shaft adapter L=60mm, ED250 New type with spline Shaft Adapter L=30mm, ED250 New type with spline	29278019 29278016 10006991
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FOR ELECTRIC UNLOCKING, PLEASE SEE "ELECTRIC OPTIONS AND ACCESSORIES"