



ABLOY® FIRE DOOR CLOSING SYSTEMS

Maximum security

Maximum security and easy access

ABLOY high security products are well known and highly respected all over the world. Every item in our wide product range represents top quality and superior performance. Our long, extensive experience and expertise combined with customer-oriented research and development ensure a wide range of solutions for the varying demands of different door environments.

Our global network of sales offices and distributors will help you to choose the right products to increase security and convenience in your specific application. The function and features offered by ABLOY fire door closing systems give you convenient operation, simple installation as well as ease of adjustment and maintenance.



Individual solution for each application

Slim design

Simplified installation

Wide range of colours



When ordering, please specify

- Product number and colour for the fire door closing system e.g. FD460 Silver (FD460 series includes arm and sliding rail)
- Product number and colour for the door closer e.g. DC250 Aluminium
- Product number and colour for the mounting plate e.g. DC115 White
- Product number and colour for the closing side accessory FD120 White



Security in the event of fire

It is vital for fire doors to close in the case of fire. The fire door must close and latch automatically in order to limit the spread of smoke and fire into other parts of the building. During daytime the normal use of fire doors requires the doors to remain open.

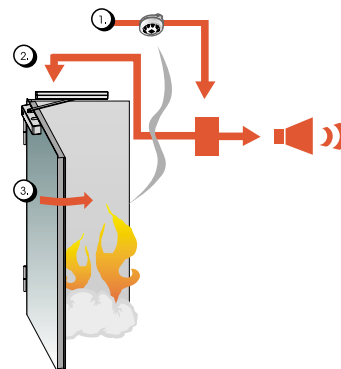
ABLOY fire door closing systems guarantee easy access and convenience for use in the day time as well as maximum security in the event of fire.

ABLOY fire door closing systems are composed of reliable and compatible components that enable building up a safe, individual solution for each application.

ABLOY® fire door closing systems are CE certified. Our products are available with wide variety of standard colours as well as all RAL-colours.

FUNCTION OF FIRE DOOR CLOSING SYSTEMS

If fire doors are held open they must close in the break out of a fire to retain smoke and flames and prevent the fire from spreading throughout the building. The smoke detector (1) reacts to smoke and activates the alarm to the hold open device of the door (2). The door closer (3) closes and latches the door into closed position. The fire alarm central panel or the fire detector (in a single door system) can activate the alarm.



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COLOURS (door closers, arms and mounting plates)



METAL COVERS



Stainless Steel

ABLOY® FD740
ABLOY® FD440

SAFE, YET CONVENIENT

ABLOY free-swing door closer is perfect match for applications in which the ordinary door closer compromises effortless passage.

For convenience, the door equipped with an ABLOY free-swing closer presents no opening resistance after the first opening. The door can also be left open at any angle. However, the door always closes when the power is cut, e.g. in case of a fire or smoke alarm.

With the free-swing closer, the door is as easy to use as a door without a door closer. It is an excellent choice for applications in which the doors are in frequent use and where the opening resistance of a regular door closer would be considered too heavy. Typical applications would be e.g. elderly homes, daycare centers, kindergartens and schools.



SAFETY

- The door closes in case of an emergency, a power cut or by separate control

EASE OF INSTALLATION

- Several installation positions
- Compact size

CONVENIENCE

- No opening resistance
- The door can be left open at any angle

ABLOY® DOOR CLOSERS WITH FREE-SWING FUNCTION

Door closers with free-swing function are light and easy to open and are therefore an excellent choice for applications, where the doors are in frequent use and the opening resistance of the standard door closer may be considered too heavy. Typical applications would be e.g. elderly homes, daycare centers, kindergartens and schools.

ABLOY® FD740

ABLOY FD740 free-swing closer with adjustable closing force is suitable for EN3-6 grade doors with sliding arm FD495. It can be used in door with maximum door width of 1400mm and 120 kg door weight.

Cam-motion technology enables both the easy opening as well as reliable closing of the door. FD740 fulfills barrier-free building requirements (EA/ CEN TR 15894).

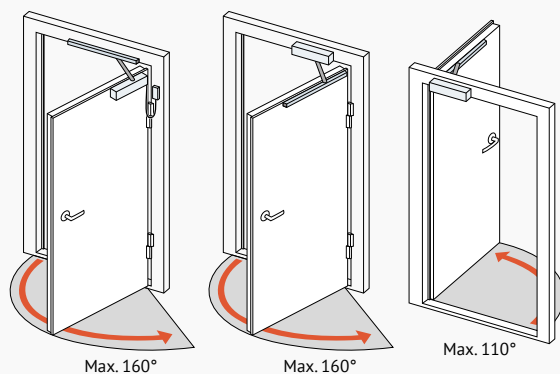
PRODUCTS

- ABLOY FD740
- Free-motion sliding arm FD495

If needed:

- Power supply EA701 or control unit 7400
- Door release button 7463
- Optical smoke detector FD600 2 pcs
- FD145 connection box for door leaf installation

FD740 FREE-SWING FUNCTION



ABLOY® FD440

ABLOY FD440 incorporate adjustable closing force sizes EN 2-6 with standard arm FD499. When installed with FD499 arm, the maximum door weight is 120 kg and door width 1400 mm. Adjustable closing force size EN3-4 with sliding free swing arm FD494. When installed with FD494 arm, the maximum door weight is 80 kg and door width 1100 mm.

FD440 can be used as an electromechanical hold-open device when installed with sliding arm DC194 or standard arm DC199. The door closes when the current is cut, e.g. when the smoke detectors give alarm.

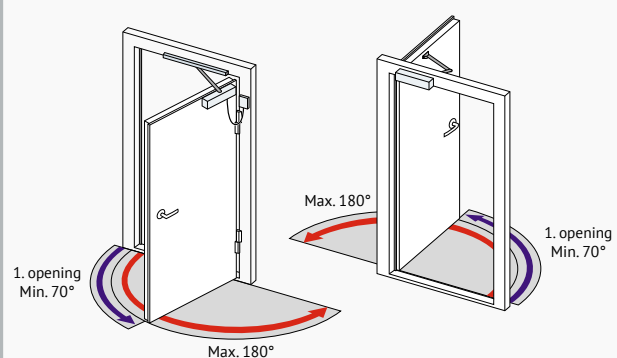
PRODUCTS

- ABLOY FD440
- Arm FD494 or FD499

If needed:

- Power supply EA701 or control unit 7400
- Door release button 7463
- Optical smoke detector FD600 2 pcs
- FD140 connection box for door leaf installation

FD440 FREE-SWING FUNCTION





ABLOY® FD460 ELECTROMECHANICAL HOLD OPEN DEVICE FOR SINGLE DOOR

ABLOY FD460 is a small and aesthetic electromechanical hold open device system with a sliding arm. It is applicable for places, where fire doors are constantly kept open. The door is kept open at a selected angle. If fire breaks out, the door is closed, preventing smoke and flames from spreading.

Suitable applications for FD460 are hotels, office buildings and other fire doors where hold open function is needed.

The maximum door leaf width is 1400 mm and the maximum door weight 120 kg.

ABLOY® FD460 is recommended to be used with CAM closers. FD460 is CE certified according EN 1155.

PRODUCTS

- ABLOY FD460
- Door Closer DC250 / DC330
- Power supply EA701 or control unit 7400
- Door release button 7463

If needed:

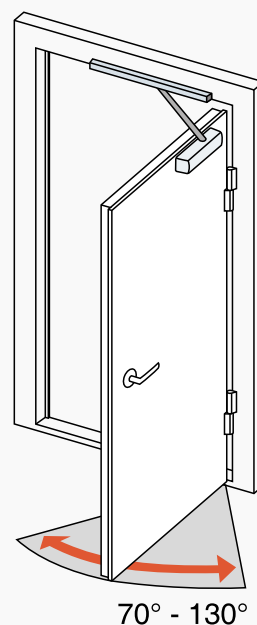
- Optical smoke detector FD600 2 pcs

FUNCTION

The door is held open by hold open device in the selected angle. When power is switched off, e.g. when smoke detectors react to smoke, the door closes.

Hold open angle can be adjusted from 70° up to 130°. Hold open device has adjustable hold open force.

Current consumption 60 mA (24 VDC).





ABLOY® FD461 MECHANICAL COORDINATOR FOR DOUBLE DOORS

ABLOY FD461 is a stylish and small mechanical coordinator for double doors. FD461 is useful in applications where doors are normally kept closed. The coordinator is integrated inside the covered sliding rails which protects the coordinator from abuse e.g. in schools. FD461 is suitable for all kinds of double doors e.g. entrance halls in office and commercial buildings.

ABLOY® FD461 is suitable for double doors with hinge distance 1250-2800 mm and maximum door leaf weight of 120 kg.

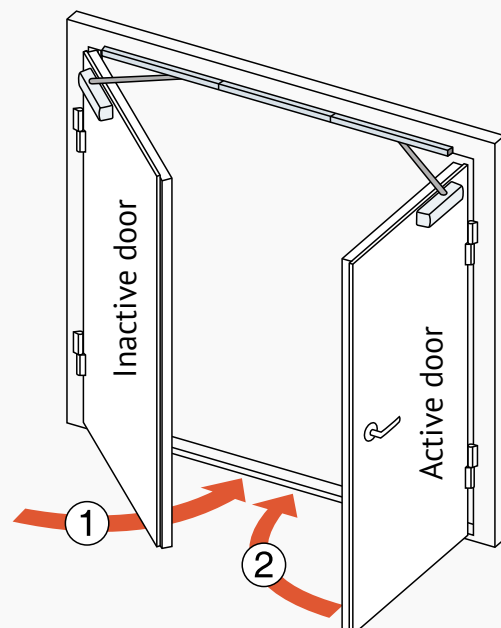
FD461 is recommended to be used with CAM closers. FD461 is CE certified according EN1158.

PRODUCTS

- ABLOY FD461
- Door Closers DC250/DC330 2 pcs
- Flush bolt FD108 2 pcs
- Accessory set FD120 for closing side installation
- Carry bar FD101 or FD102
- Opening damper FD115 2 pcs if needed

FUNCTION

FD461 mechanical coordinator keeps the active door open when inactive door is open. Active door starts to close when the inactive door is almost closed. After the active door is closed it latches the inactive door. FD120 must be used with closing side installations.





ABLOY® FD462 COORDINATOR AND TWO ELECTROMECHANICAL HOLD OPEN DEVICES

ABLOY FD462 is a small, aesthetic fire door closing system with a sliding arm, a built-in coordinator and two electromechanical hold open devices for double doors. FD462 has been designed for applications which require flexible use. Two electromechanical hold open devices provide possibility to keep either only the active door or both door leaves open.

ABLOY FD462 is designed for double doors with hinge distance 1250-2800 mm and maximum door leaf weight 120 kg.

FD462 is recommended to be used with CAM closers.

FD462 is CE certified according EN1155 and EN1158.

PRODUCTS

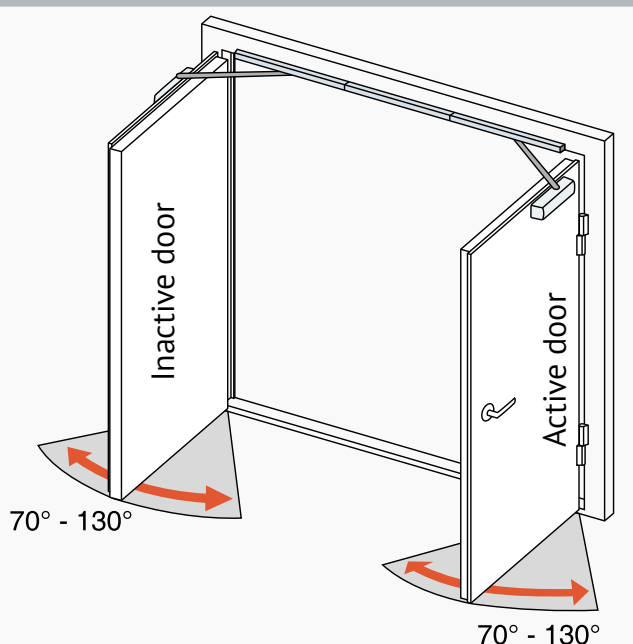
- ABLOY FD462
- Door closers DC250/330 2 pcs
- Power supply EA701 or control unit 7400
- Door release button 7463
- Optical smoke detector FD600 2 pcs
- Flush bolt FD108 2 pcs
- Accessory set FD120 for closing side installation
- Carry bar FD101 or FD102

FUNCTION

With FD462 the normal day use is convenient because both door leaves can be used independently. Only the active door or both door leaves can be kept open. The mechanical coordinator keeps the active door open when inactive door is open. When the power is switched off, i.e. when the smoke detectors react to smoke, the inactive door closes first and when it is almost closed, the active door starts to close. After the active door is closed it latches the inactive door. Hold open angle for both doors can be adjusted from 70 to 130 degrees.

The hold-open force is adjustable. Current consumption 120 mA (24 VDC).

FD120 must be used with closing side installation of FD462.





ABLOY® FD464 COORDINATOR WITH ONE ELECTROMECHANICAL HOLD OPEN DEVICE

ABLOY FD464 is a small, aesthetic fire door closing system with a sliding arm, one hold open device and the built-in coordinator for double doors. The applications for FD464 are for example hotels and hospital corridors, where both doorleaves are usually kept open.

ABLOY FD464 is designed for double doors with hinge distance 1250-2800 mm and maximum door leaf weight 120 kg.

FD464 is recommended to be used with CAM closers. CE certified according EN1155 and EN1158.

PRODUCTS

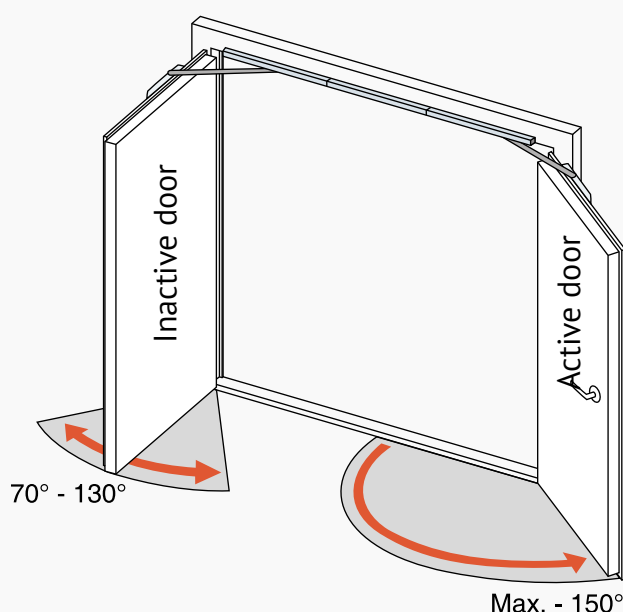
- ABLOY FD464
- Door closers DC250/DC330 2 pcs
- Power supply EA701 or control unit 7400
- Door release button 7463
- Optical smoke detector FD600 2 pcs
- Flush bolt FD108 2 pcs
- Accessory set FD120 for closing side installation
- Carry bar FD101 or FD102

FUNCTION

In normal day use both doors are open. The hold open angle for inactive door can be adjusted 70-130 degrees. The hold open device keeps the inactive door open whereas the coordinator keeps the active door open. The maximum hold angle for the active door is 150°. When the power is switched off, i.e. when the smoke detectors react to smoke, the inactive door closes first and when it is almost closed, the active door starts to close.

The hold-open force is adjustable. Current consumption 60mA (24 VDC).

FD120 must be used with closing side installations of FD464.



ABLOY® FD110, FD111 AND FD120

ABLOY® FD110 / FD111 MECHANICAL COORDINATOR FOR DOUBLE DOORS

ABLOY FD110 coordinator is particularly useful for heavy doors e.g. warehouses in industrial halls and garages. When FD110 is installed with wall magnets, the hold open angle can be 180 degrees.

FD110 and FD111 are designed for double doors with a maximum hinge distance of 3 m and the maximum weight of door leaf is 160 kg.

PRODUCTS

- Coordinator FD110 (hinge distance 1500-2000 mm)
- Coordinator FD111 (hinge distance 2000-3000 mm)
- Door closer DC240 2 pcs
- Standard arm DC199 2 pcs
- Flush bolt FD108 2 pcs
- Carry bar FD101
- Wall magnets 2 pcs, if needed

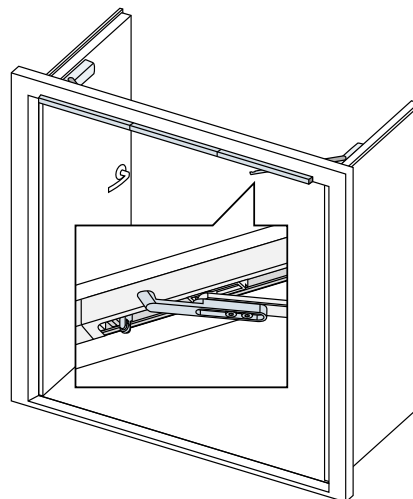


ABLOY® FD120 ACCESSORY SET FOR CLOSING SIDE INSTALLATION

FD120 accessory set is needed when coordinator FD461 and electromechanical hold open devices FD462 / FD464 are installed on the closing side of the door.

In the closing side installation the sliding piece in the arm moves back and forth before the door closes. When the inactive door is almost closed, FD120 releases the coordinator and the active door leaf closes.

FD120 is also suitable for exit door solutions.

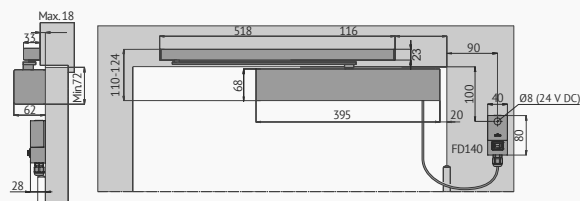


ABLOY® DIMENSIONS FD440 AND FD740

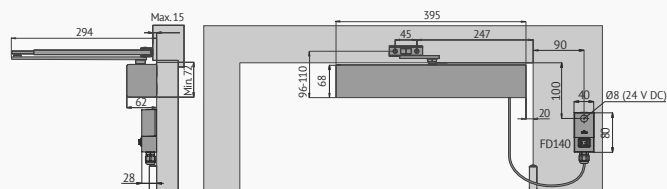
ABLOY® FD440

OPENING SIDE

FD440 + FD494 / DC194 + FD140

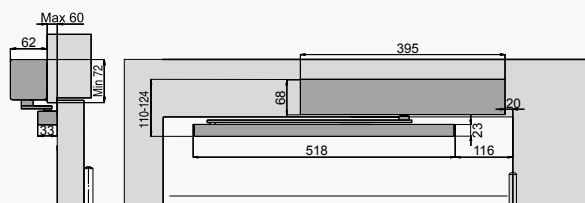


FD440 + FD499 / DC199 + FD140

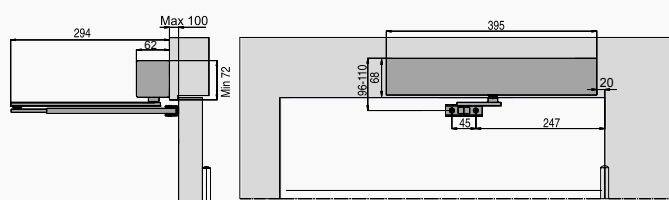


CLOSING SIDE

FD440 + FD494 / DC194



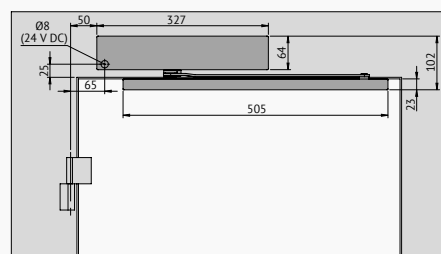
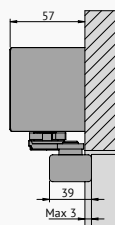
FD440 + FD494 / DC199



ABLOY® FD740

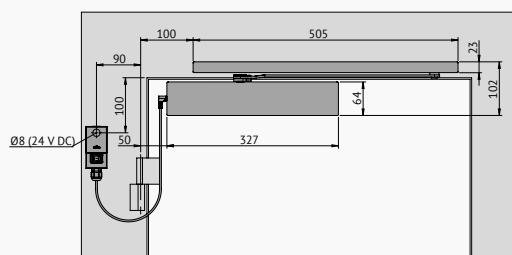
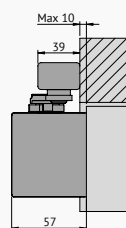
OPENING SIDE

FD740 + FD495



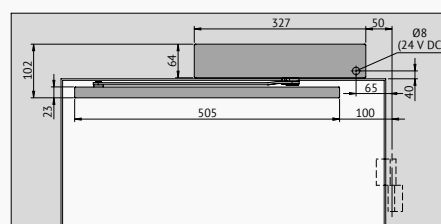
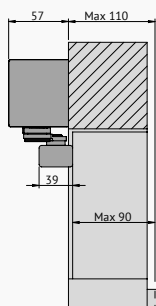
OPENING SIDE

FD740 + FD495 + FD145



CLOSING SIDE

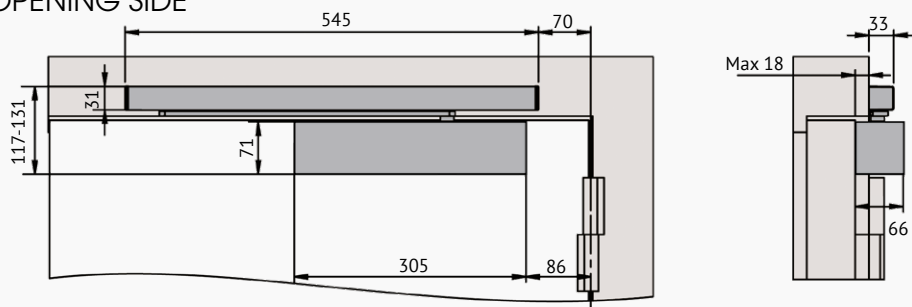
FD740 + FD495



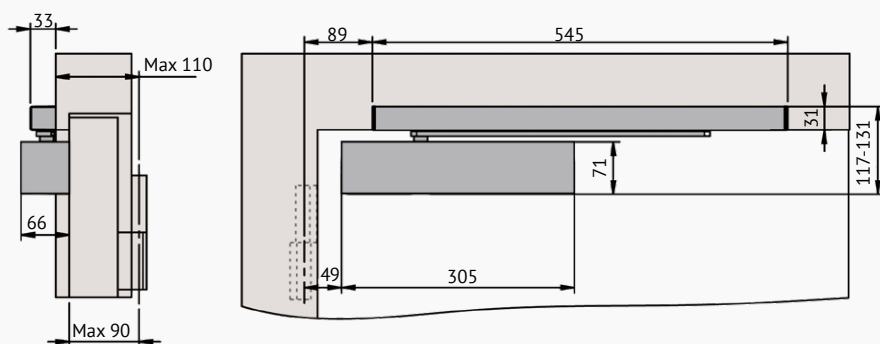
ABLOY® DIMENSIONS FD460 AND FD461-FD464

ABLOY® FD460

OPENING SIDE

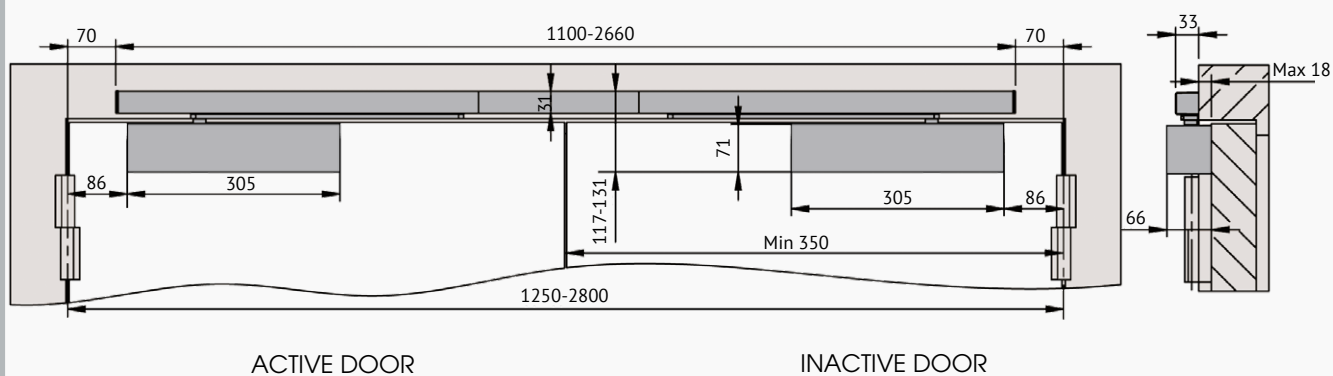


CLOSING SIDE

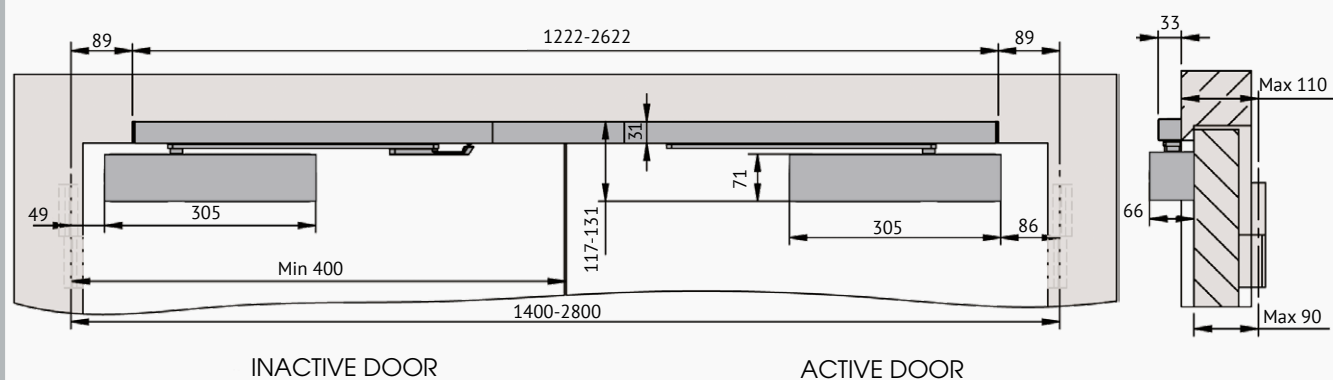


ABLOY® FD461-FD464

OPENING SIDE



CLOSING SIDE



ACCESSORIES



Control unit **ABLOY® 7400**

- Supply voltage 230 VAC
- Output voltage 24VDC
- Max. output current 300 mA



Battery back-up **ABLOY® 7404**

- Capacity 0,7 Ah



Smoke detector **ABLOY® FD600** (optical)

- Operating voltage 15-30 VDC
- Max. current 30 mA



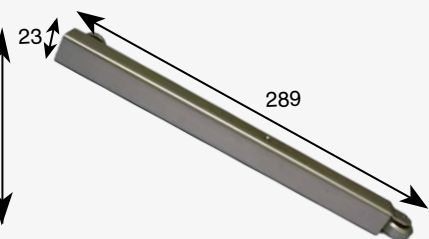
ABLOY® EA701

- Power supply 230 AC
- Output voltage 24VDC
- Max. current 2,5 A



Wall magnets **ABLOY® 7438, 7439**

- Operating voltage 24VDC
- Normal current 16mA
- Hold open force 500 N



Carry bar **ABLOY® FD101**

- Enables the correct opening sequence of the doors



Automatic flush bolt **ABLOY® FD108**

- Used in double door systems for locking the passive door leaf



Connection box **ABLOY® FD145**

- On/ Off switch included
- Used when FD740 is installed to door leaf



ABLOY® FD140 Connecting box

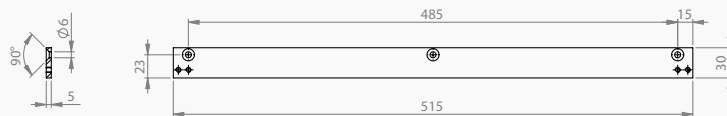
- FD140 connection box for opening side installation
- Used when FD440 is installed to door leaf



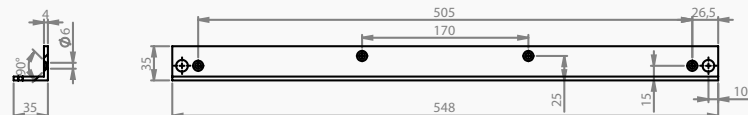
Door release button **ABLOY® 7463** (mortice)

MOUNTING PLATES

DC115

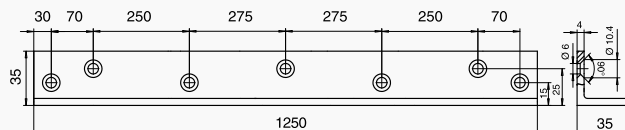


DC116



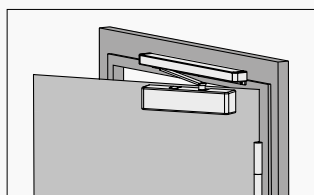
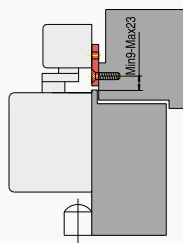
DC117

Angle mounting plate for double doors

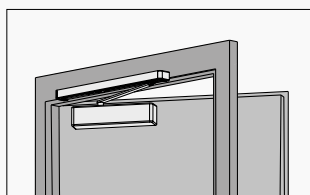
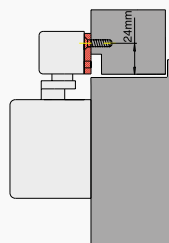


MOUNTING PLATE INSTALLATION EXAMPLES

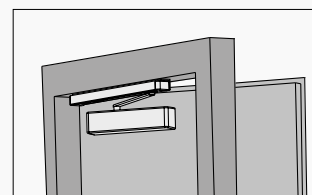
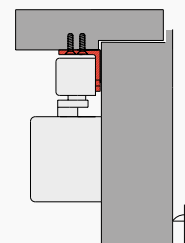
ABLOY® DC115 opening side



ABLOY® DC115 closing side



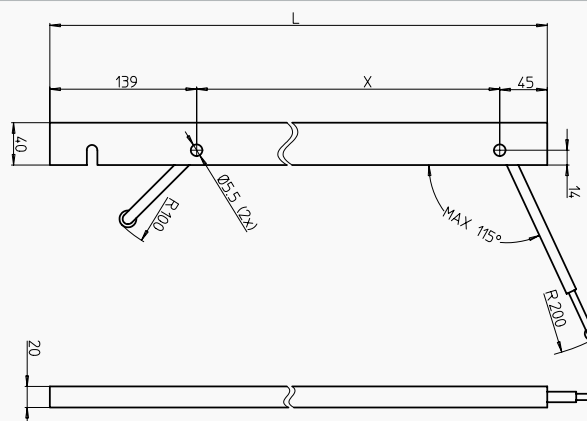
ABLOY® DC116 (+DC117) closing side



ABLOY® MECHANICAL COORDINATORS

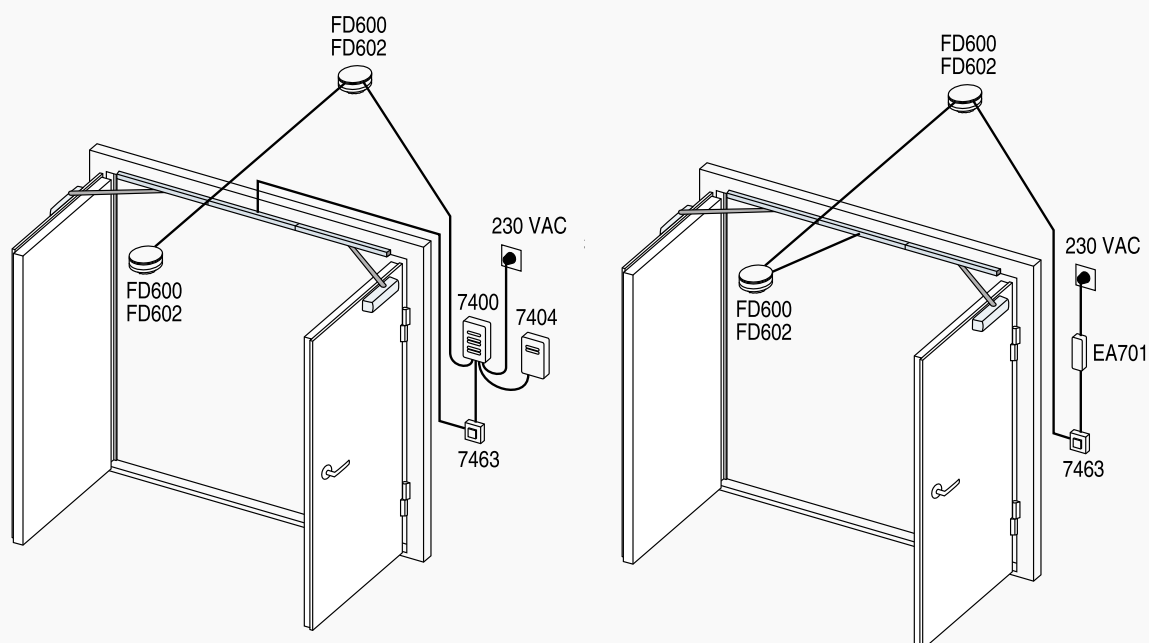
Coordinator	Measure L	Measure X
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FD110	650	466
FD111	1050	866



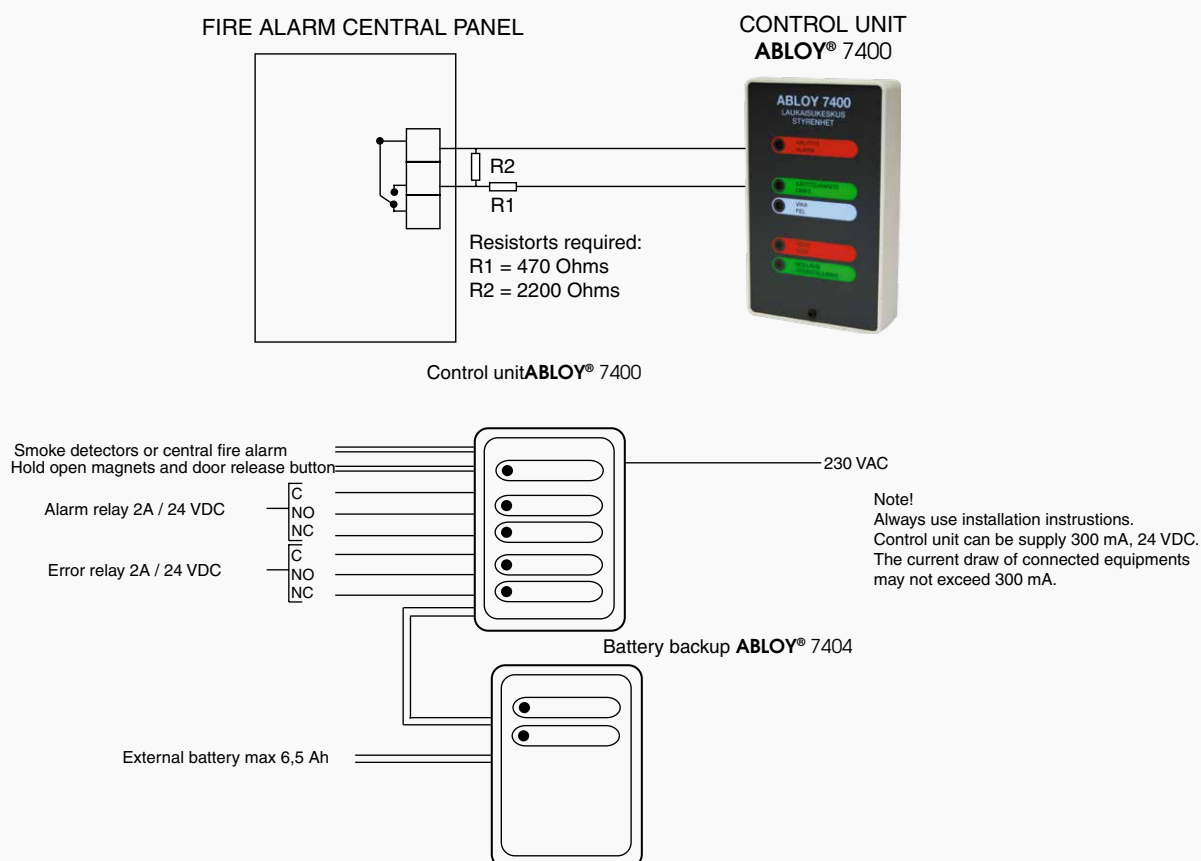
ABLOY® WIRING DIAGRAM

WIRING DIAGRAM EXAMPLE FD462 / FD464



ABLOY® CONNECTION OF CONTROL UNIT

CONNECTION OF CONTROL UNIT 7400 TO CENTRAL FIRE ALARM





Abloy Oy develops continuously the products and solutions offered. Therefore, the information contained in the marketing materials is subject to change without notice.



ABLOY secures people, property, and business operations on land, at sea, and in the air – in all circumstances.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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8801189 10/2018