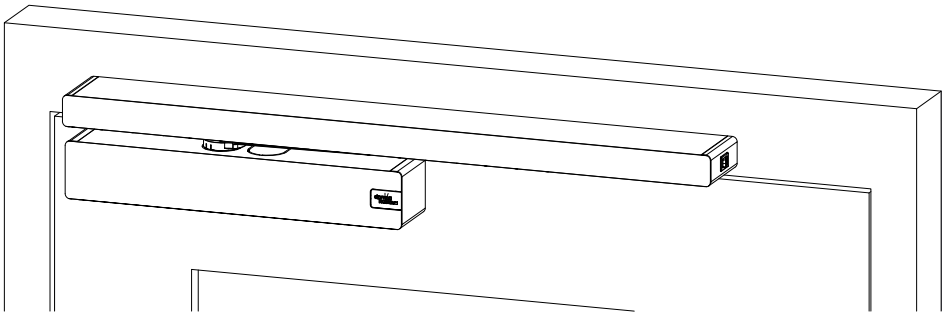
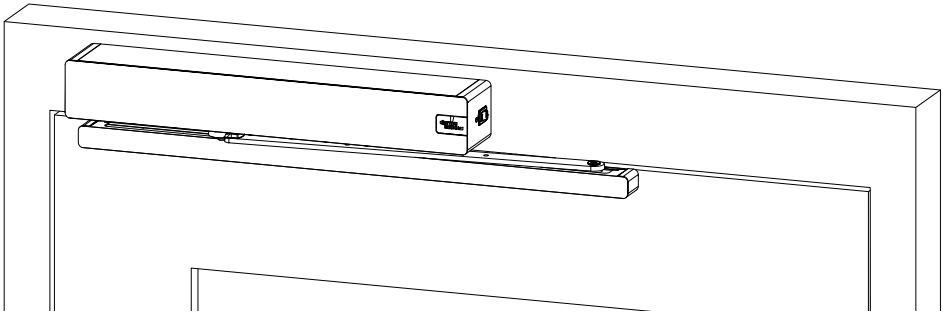
dormakaba

EasyAssist/EasyAssist Pro/ EasyAssist Pro eHO

Operating Manual





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1 Information about this document

1.1 Contents and purpose

This manual contains information on the following products:

- **EasyAssist**
  Low-energy swing door operator without mechanical self-closing
- **EasyAssist Pro**
  Power-operated door closer
- **EasyAssist Pro eHO**
  Power-operated door closer with electrical opening

Mounting and commissioning are described in the mounting instructions. These documents are available digitally, see chapter Other applicable documents [▸ 1.2].

Commissioning, parameterization, operation and troubleshooting are carried out using the "Door Pilot 2" app.
This app can be downloaded via the following link or the adjacent QR code:

https://dk.world/easyassist

This manual must be carefully read through and understood before commencing all work. Complying with all safety instructions and action steps provided in this manual is the basic prerequisite for safe working. The local accident prevention regulations and general safety conditions for the product's scope of application also apply.

The figures serve to provide a general understanding and may differ from the product model that is actually delivered.

1.2 Other applicable documents

- Supplementary sheet with references to the digital documents
- Inspection log for power-operated doors
- Operation manual Door Pilot Interface 2
- Drilling template for marking the fixing holes
- EasyAssist/EasyAssist Pro/EasyAssist Pro eHO operating instructions
- EasyAssist mounting instructions
- EasyAssist Pro/EasyAssist Pro eHO mounting instructions

1.3 Target group

This document is intended for facility operators. The Facility operator: definition [▶ 2.4.1] must be observed and the Obligations of the facility operator [▶ 2.4.2] must be fulfilled.

1.4 Documents storage

This document and the applicable documents must be handed over to the facility operator. The documents must be kept during the service life of the product and made accessible to staff.

1.5 Symbols used

1.5.1 Hazard categories

⚠ DANGER

Indicates an imminent danger that leads to serious bodily injury or death.

⚠ WARNING

Indicates a potentially dangerous situation that can lead to serious body injuries or death.

⚠ CAUTION

Indicates a potentially dangerous situation that can lead to minor body injuries.

1.5.2 Symbols (manual)

The symbols listed can be found in the manual.

Application tips, useful information

Cross references point to the chapter number in which additional information can be found. Example [▶ 2.2]

Action steps

✓ Requirement

1. Step 1
   ⇨ Intermediate result
2. Step 2

⇨ Result

2 Safety

2.1 Intended use

- EasyAssist, EasyAssist Pro and EasyAssist Pro eHO products may only be mounted on interior doors. This includes products mounted to interior doors that open to outside.
- The EasyAssist, EasyAssist Pro and EasyAssist Pro eHO products are used for power-assisted operation of single-leaf doors for people moving in indoor areas.
- The EasyAssist Pro and EasyAssist Pro eHO products are used to close the doors again.
- The EasyAssist Pro eHO product is used to keep doors open electrically.

2.2 Non-intended use

- EasyAssist, EasyAssist Pro and EasyAssist Pro eHO products may not be exposed to external weather conditions.
- The EasyAssist, EasyAssist Pro and EasyAssist Pro eHo products must not be used if the environmental conditions specified in the chapter Technical data [▶ 3.8] are not met.
- Easy Assist may not be used on fire and smoke protection doors.
- Children should not be allowed to play near the door.

2.3 Risk assessment

The assembling technician should ensure that the results of the risk assessment are complied with. The assembling technician should carry out an independent inspection and draws the facility operator's attention to any unresolved hazards.

2.3.1 Specific protection requirement

If the risk assessment reveals that there is an unacceptable risk of a door user being injured or suffering damage to their health, additional protection must be provided by a safety sensor. This is to be taken into special consideration if particularly vulnerable persons (e.g. children, elderly people or disabled people) use the door area.

2.4 Role of the facility operator

2.4.1 Facility operator: definition

The person who operates the unit and any products installed in the unit for commercial or business purposes themselves or allows a third party to use/operate it and bears the legal product responsibility for protecting the user, staff and third parties during operation.

2.4.2 Obligations of the facility operator

The facility operator must carry out a project risk assessment for each project or have one carried out before ordering the unit.

In addition to the safety instructions in this manual, the safety, occupational health and environmental protection regulations applicable for the area of use of the unit must be observed.

In the process, the following applies in particular:

- The facility operator must stay informed about the applicable occupational health and safety regulations and carry out a risk assessment to investigate additional hazards caused by the special working conditions at the place the unit is used. The facility operator must implement the risk assessment by producing operating instructions on how to operate the unit.
- For the entire period the unit is in use, the facility operator must ensure that the operating instructions provided correspond to current regulations and adapt them as necessary.
- The facility operator must ensure that the unit is safely accessible.
- The facility operator must ensure that the protective devices are always accessible.
- The facility operator must instruct dormakaba or staff trained according to dormakaba's specifications to ensure that the safety inspection and any maintenance work are carried out at the specified intervals and recorded in the inspection log.
- The facility operator must provide the staff they have employed with all the information required for the specific work.

What's more, the facility operator is responsible for ensuring that the unit and all products installed in it are always in perfect technical condition. Therefore the following applies:

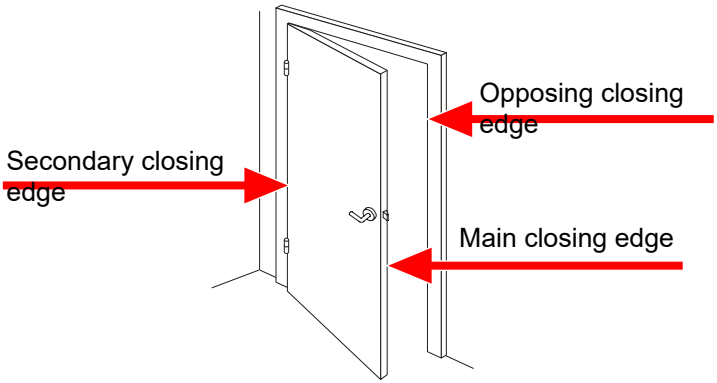
- The facility operator must have all safety equipment checked for proper functionality and completeness at least once a year.
- The facility operator must ensure that the results of the locally required tests are entered into the inspection log.
- The facility operator must ensure that the unit's maintenance plan is adhered to.
- The facility operator must ensure that the unit's cleaning plan is adhered to.
- After commissioning the unit, the facility operator was instructed on how the unit operates and works by the service technician and has verifiably received a handover protocol and confirmed this with their signature.
- The facility operator must keep this manual and all other applicable documents for the entire service life of the unit.
- The facility operator must check the labeling for legibility and completeness and replace it if necessary.

2.5 Low-energy operator

The product is a low-energy drive in accordance with EN 16005.
After commissioning, the static force required to prevent a stopped door from moving further is not greater than 67 N.

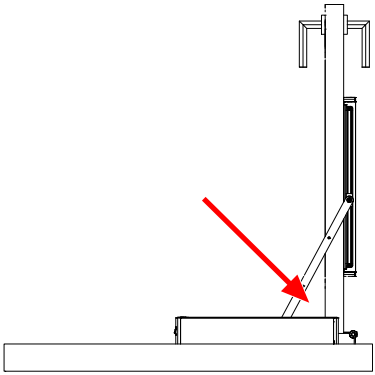
2.6 Danger points

Danger zones at closing edges

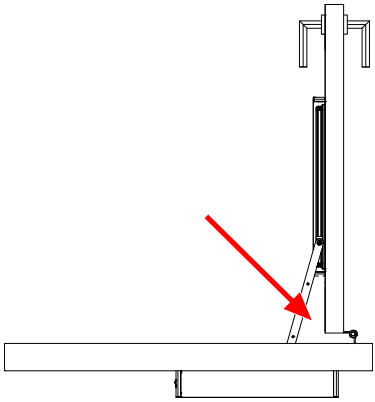


Danger zones on slide rail levers

Danger zones hinge side



Danger zones opposite side to the hinge



⚠ CAUTION

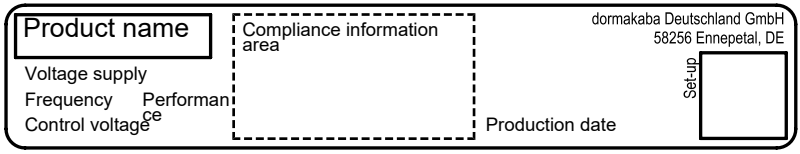
Risk of injury by crushing

On doors with operators there is a risk of crushing and shearing on slide rail levers and arms.

- Inform the door's facility operator of the danger.

3 Product description

3.1 Identification plate



3.2 EU Declaration of Conformity

This chapter is an extract from the full declaration of conformity.

dormakaba Deutschland GmbH
DORMA Platz 1
58256 Ennepetal
Germany

hereby declares that the product described complies with the provisions of the listed directive(s) and that the standards and/or technical specifications referred to below have been applied.

Directives:

2014/30/EU	EMC Directive
2011/65/EU	RoHS

The technical documentation is available from the Product Compliance Manager at:
product-compliance.dach@dormakaba.com

Harmonized European standard, national rule:

EN ISO 13849-1:2023

EN ISO 12100:2010

EN 16005:2023+A1:2024

EN 60335-2-103:2015

EN 61000-6-2:2005

EN 61000-6-3:2007 and A1:2011

EN 61000-3-2:2014

EN 61000-3-3:2013

EN 61000-6-7:2015

EN 62368-1:2014+AC:2015

EN IEC 63000:2018

3.3 EU installation declaration

This chapter is an extract from the full installation declaration.

dormakaba Deutschland GmbH
DORMA Platz 1
58256 Ennepetal
Germany

hereby declares that the described product complies with the following essential requirements of the Machinery Directive (2006/42/EC) – Annex I, Article:

1.1.3	1.1.5					
1.2.1	1.2.3	1.2.5	1.2.6			
1.3.1	1.3.2	1.3.3	1.3.4	1.3.7	1.3.8.1	1.3.9
1.5.1	1.5.2	1.5.4	1.5.10	1.5.16		
1.6.1	1.6.2	1.6.3	1.6.4			
1.7.1.1	1.7.3	1.7.4				

The partly completed machinery continues to comply with all relevant provisions of Directives 2014/35/EU and 2014/30/EU.

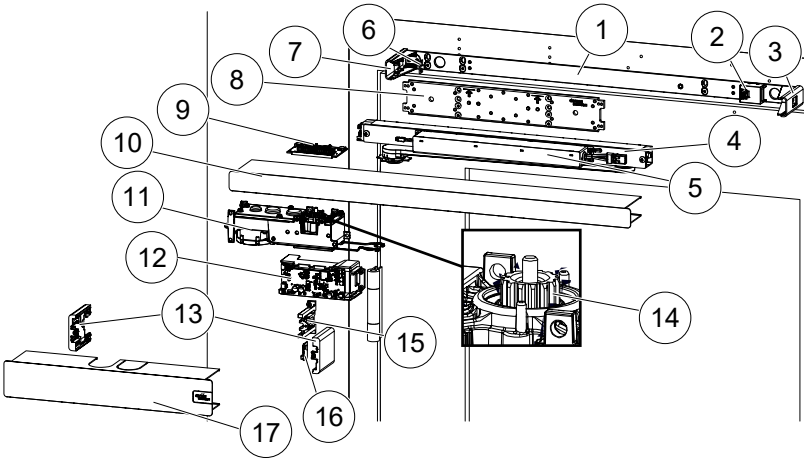
It may be installed and operated in automatic door units according to the Machinery Directive if the unit manufacturer ensures that all requirements resulting from the Machinery Directive are complied with and issues an EC declaration of conformity.

The technical documentation is available from the Product Compliance Manager at: product-compliance.dach@dormakaba.com

They will be transmitted electronically to national authorities upon reasoned request.

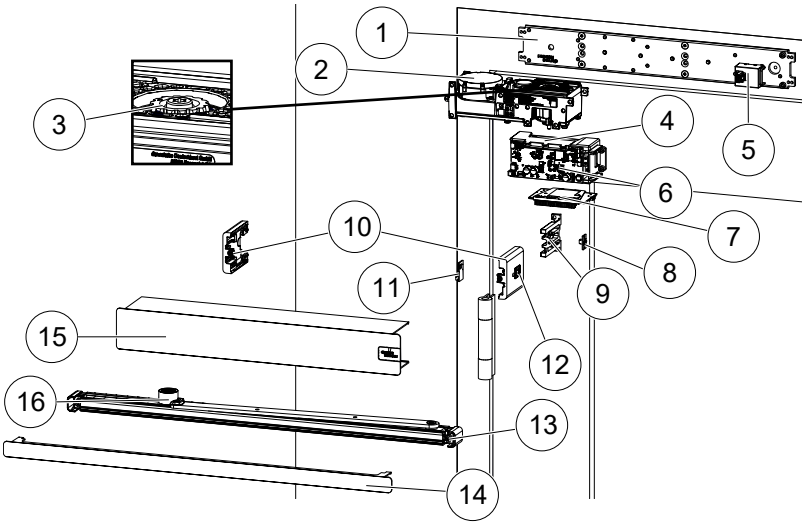
3.4 EasyAssist components

3.4.1 Door panel mounting



1 SmartArm mounting plate
2 Mains connection
3 SmartArm end cap with power switch
4 SmartArm
5 Power supply unit
6 SmartArm end cap with LED status display
7 LED board
8 Operator mounting plate
9 I/O board
10 SmartArm cover
11 Drive
12 Control board
13 End caps
14 Double-sided output shaft
15 Right end cap holder
16 Bluetooth board
17 Operator cover

3.4.2 Lintel mounting

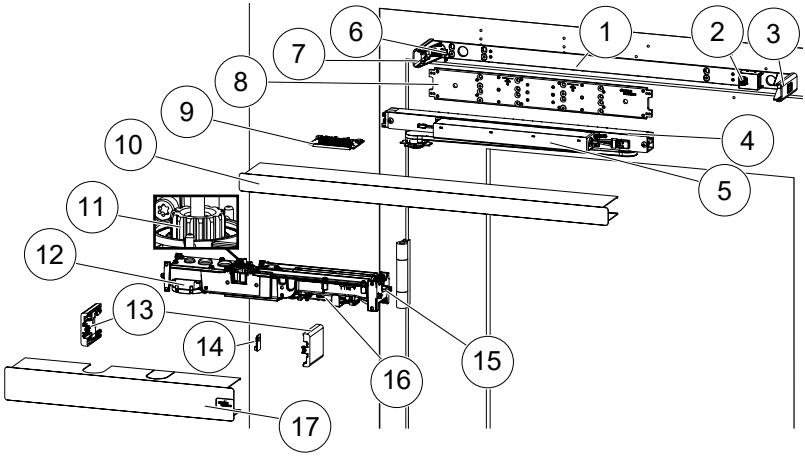


1 Operator mounting plate
2 Drive
3 Double-sided output shaft
4 Power supply unit
5 Mains connection
6 Control board
7 I/O board
8 LED board
9 Right end cap holder
10 End caps
11 Bluetooth board
12 Power switch
13 Slide rail
14 Slide rail cover
15 Operator cover
16 Lever arm

3.5 EasyAssist Pro/ EasyAssist Pro eHO components

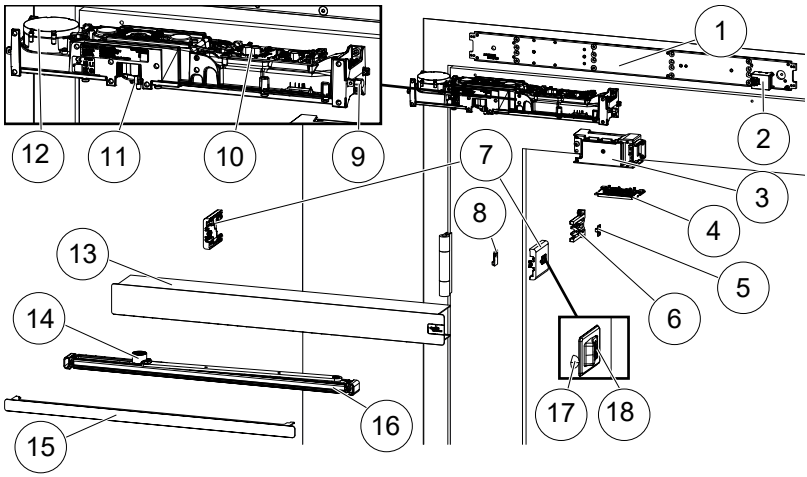
Unlike the Easy Assist Pro, the EasyAssist Pro eHO has an I/O board that enables the electrical hold-open function.

3.5.1 Door panel mounting



1 SmartArm mounting plate
2 Mains connection
3 SmartArm end cap with power switch
4 SmartArm
5 Power supply unit
6 LED board
7 SmartArm end cap with LED status display
8 Operator mounting plate
9 I/O board (EasyAssist Pro eHO only)
10 SmartArm cover
11 Double-sided output shaft
12 Drive
13 End caps
14 Bluetooth board
15 Hexagon to adjust spring tension
16 Control board
17 Operator cover

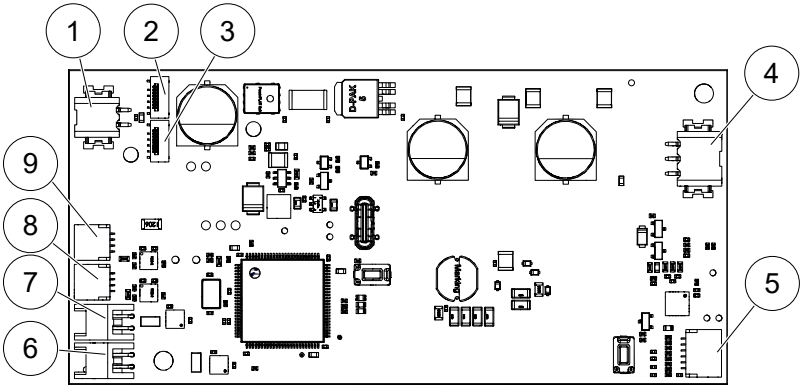
3.5.2 Lintel mounting



1 Operator mounting plate
2 Mains connection
3 Power supply unit
4 I/O board (EasyAssist Pro eHO only)
5 LED board
6 Right end cap holder
7 End caps
8 Bluetooth board
9 Hexagon to adjust spring tension
10 Control board
11 Double-sided output shaft
12 Drive
13 Operator cover
14 Lever arm
15 Slide rail cover
16 Slide rail
17 Status display LED
18 Power switch

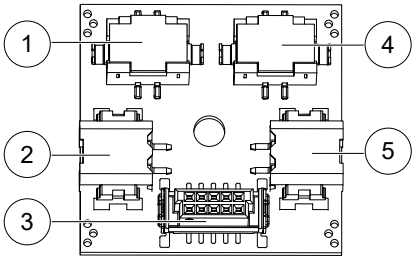
3.6 Circuit board connections

3.6.1 Control board connections



1 Power supply (lintel mounting)
2 FFC cable +
3 FFC cable -
4 Drive
5 Drive Hall sensors
6 CAN bus 2 (lintel mounting) Connection currently without function
7 CAN bus 1 (lintel mounting)
8 Bluetooth module
9 Additional modules (HMI, etc.)

3.6.2 FFC board (SmartArm) connections



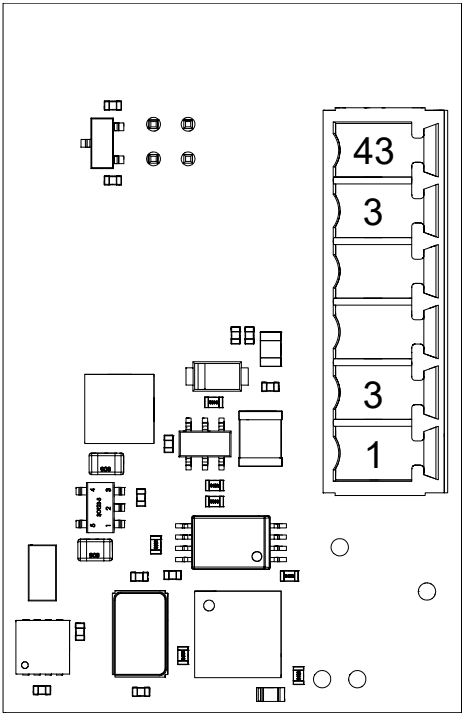
1 CAN bus 2 (SmartArm mounting) Connection currently without function
2 Power supply connection
3 I/O board connection
4 CAN bus 1 (SmartArm mounting)
5 Power supply connection

3.6.3 Note on mounting additional circuit boards

Additional circuit boards are mounted in the operator's cover.
Due to space limitations, only one additional circuit board can currently be mounted.

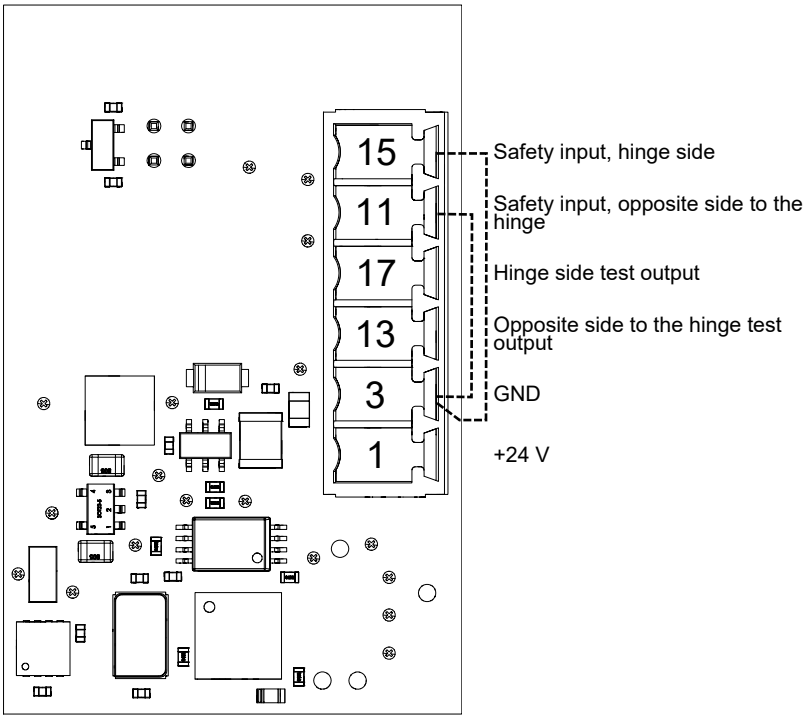
If necessary, a second additional circuit board can be connected.
In this case, the board must be positioned appropriately depending on the mounting option.

3.6.4 Connections for the additional circuit board for the motor lock



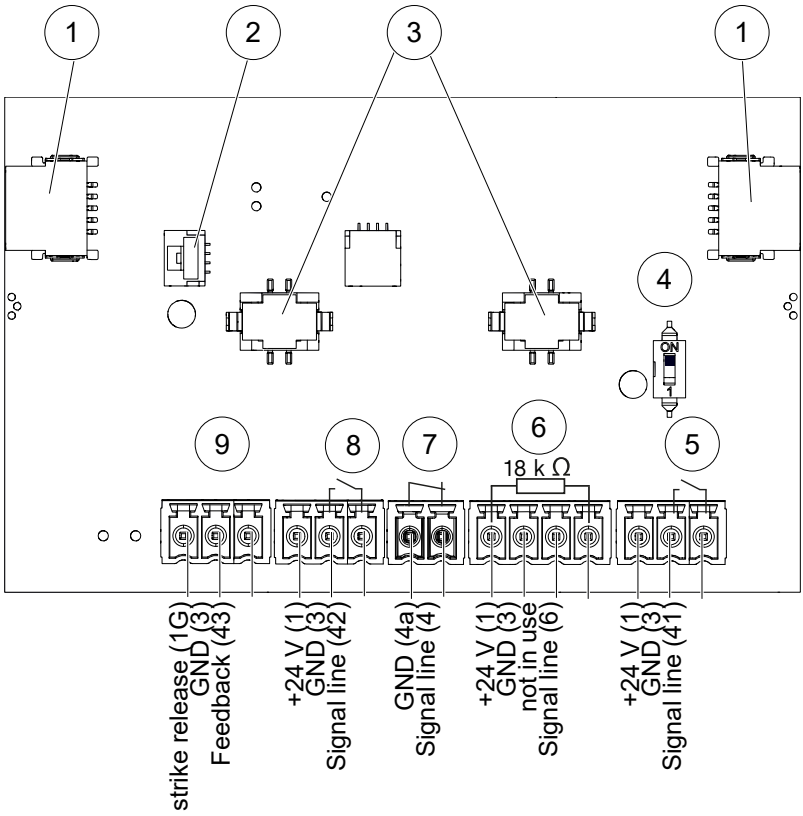
If the feedback contact terminal 43 is used, the device parameter "Unlocking time" must be set to "0" in the "Door Pilot 2" app.

3.6.5 Connections for the additional circuit board for the safety sensor module



Within the scope of EN16005, the "Safety Sensor Monitoring" device setting must be activated in the "Door Pilot 2" app.

3.6.6 I/O board connections



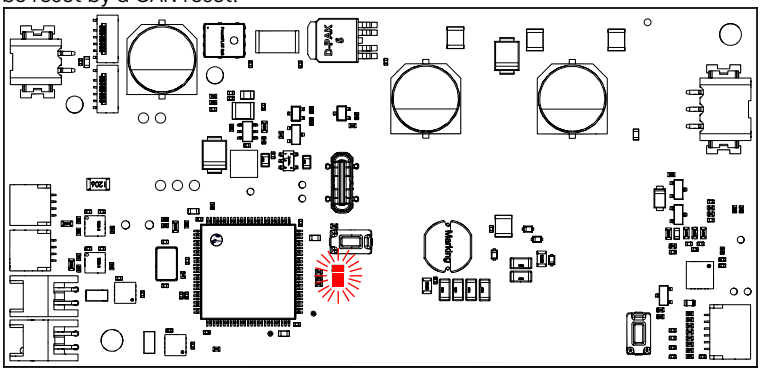
1 Connections SmartArm/Power supply unit
2 LED module connection
3 CAN bus connections
4 Reset option after operator shutdown with cable monitoring (connection 6)
5 External activator connection
6 Operator shutdown with cable monitoring
7 Operator shutdown without cable monitoring
8 Internal activator connection
9 Electric strike/locking device connection

To detect the I/O board, a CAN reset must be performed via the app.

3.6.1.1 DIP switch on the I/O board

The DIP switch on the I/O board is used to activate/deactivate the hold-open system function.

Every change to the DIP switch position from ON to OFF or from OFF to ON must be made deliberately.
To ensure this, error 53-0 is triggered with each change.
This error is indicated by a red flashing of this LED on the control board and must be reset by a CAN reset.



DIP switch position	Description	LED display
OFF	Hold-open system function inactive	Off
ON	Hold-open system function active Hold-open system not triggered	Green
	Hold-open system function active Hold-open system triggered	Red

When the hold-open system function is active and the hold-open system is triggered, the following functions are possible:

Automatic drive

Automatic drive is only enabled after a change of operating mode or manual door opening to the set opening width - 5°.

Manual access

The door can only be opened manually, without motorized assistance.

Permanently open

The door can only be opened manually, without motorized assistance.
After changing the operating mode or manually opening the door to the set opening width - 5°, the door opens automatically to the set opening width and remains open.

Smoke detector

After the smoke alarm signal has been cancelled/deactivated, the hold-open system is in a triggered state and must be released again by changing the operating mode or manually opening the door to the set opening width - 5°.

3.7 Door Pilot 2 app

Commissioning, parameterization, operation and troubleshooting are carried out using the "Door Pilot 2" app.
This app can be downloaded via the following link or the adjacent QR code:

https://dk.world/easyassist

3.7.1 Parameter

- Door leaf width (cm)
- Opening width to be travelled
- Mounting type
- Unlocking time (cs)
- Door type
- Backcheck
- Opening speed
- Static force in opening direction (N)
- Closing speed
- Static force in closing direction (N)
- Hold-open time (s)
- Maintenance date
- Door leaf weight (kg)
- Power-close start angle
- Power Assist support force
- Commissioning date
- Name
- Location
- Floor
- Date
- Collision detection sensitivity
- Safety sensor monitoring
- 2-leaf opening delay (s)

3.7.2 Operating modes

- Passive mode
  - Manual operation without motor assistance: The door can be moved by hand without motor assistance.
  - All additional functions are deactivated.
- Manual mode
  - Manual operation with motor assistance: The door can be moved by hand, with the motor helping.
  - All additional functions can be activated.
  - Individual automatic drive cycles can be activated by Push & Go or a push button.
- Permanently open

  The door automatically moves into its open position and remains open until another mode is selected.
- Automatic
  - Automatic mode
  - Operated via Push & Go, a push button or by connected sensors.

Additional functions

- Power Assist
  - When this function is selected, the door is opened with a drive.
  - The level of support can be set in 10 steps (50% to 100%) under "Parameters" in "Configuration" section.
  - This additional function can be activated with EasyAssist Pro and EasyAssist Pro eHO.
  - The additional functions Power Assist and Push & Go cannot be activated at the same time.
- Push & Go
  - When you select this function, the door opens automatically when pushed gently by hand.
    In this way, an automatic door is created without the use of sensors or push buttons.
  - The additional functions Power Assist and Push & Go cannot be activated at the same time.
- Power Close
  - When this function is selected, the door is closed by a drive, so that the door closes very quietly yet with force to overcome resistances (seal, lock latch, wind force on the door leaf).

3.8 Technical data

Supply voltage	24 V
Supply voltage for external loads	24 V DC / 1.5 A
Permissible Relative humidity (non-condensing)	20% to 95%
Power consumption during operation[1]	max. 140 W
Power consumption in idle mode[1]	3.1 W
Power consumption in off mode[2]	0 W
Ambient temperature	-15°C to 50°C
Closing force of the EasyAssist Pro/EasyAssist Pro eHO in accordance with EN 17372[3]	
Door panel mounting hinge side	EN3 to EN6
Lintel mounting hinge side	EN3 to EN6
Door panel mounting opposite side to the hinge	EN3 to EN6
Lintel assembly opposite side to the hinge	EN3 to EN5
Max. door wing weight	120 kg
Max. door wing width	1400 mm
Slide rail lintel depth	max. 30 mm
SmartArm axle extensions	Not possible
Slide rail axle extensions	20 mm and 30 mm
EasyAssist weight[4]	max. 4.4 kg
EasyAssist Pro/ EasyAssist Pro eHO weight[4]	max. 6.5 kg
Protection class	IP 20
Product lifespan	500,000 cycles
Noise emission in accordance with Directive 2006/42/EC	< 70 dB(A)

For lintel mounting, power is supplied by a power supply unit, which is located under a common cladding with the drive unit.
For door leaf mounting, the power is supplied via SmartArm.

The product does not have a standby state in accordance with Regulation (EU) 2023/826 or an equivalent state in terms of energy efficiency requirements, as this is not compatible with the intended use for power-assisted doors.

3.9 SmartArm

The SmartArm is used for door wing mounting and provides the connection between door lintel and door wing as a slide rail lever.
The SmartArm has the following functions:

- Transmission of mechanical energy
- Transmission of electrical energy
- Transmission of CAN signals

[1] Power switch in position “1”

[2] Power switch in position “0”

[3] All EasyAssist Pro eHO mounting variants have been approved for preventive fire protection.

[4] with SmartArm

4 Maintenance

4.1 Safety during maintenance

⚠ DANGER

Danger to life through electric current

The unit is permanently connected to the power supply network.
An electric shock is therefore possible unless the unit is disconnected.

- For all work where no voltage may be present, the unit must be switched off, disconnected from the power supply, secured against being switched back on, and the absence of voltage must be verified.
- During work that requires voltage, there is a risk of electric shock when the voltage-carrying parts are touched.

⚠ WARNING

Risk of injury due to insufficiently qualified personnel

Insufficiently qualified personnel cannot assess the risks associated with handling the unit, thus putting themselves or others at risk of serious or life-threatening injury. If unqualified personnel work on the unit or stay in the unit's danger zone, this results in dangers that could cause serious injury and considerable property damages.

- All work in this manual should only be carried out by qualified personnel.
- Keep inadequately qualified personnel away from the danger zones.
- Contact dormakaba in case of any uncertainties.
- Children must not be in the vicinity when work is being carried out on the unit.

⚠ WARNING

Risk of injury due to working on the unit

People could try to walk through the unit while work is being done to it.

- Close off the passageway before starting any work.

4.2 Maintenance plan

dormakaba recommends that maintenance be carried out as part of the annual expert inspection.

Facility operator maintenance plan

Inform a service technician in the event of damage.

Activity	Interval
Carry out a visual inspection for external damage.	Monthly

Service technician maintenance plan

Activity	Interval
Remove the covers and check the following components: • Slide rail • Sliding block	Annually

4.3 Replacement parts

⚠ WARNING

Risk of injury due to using the wrong replacement parts

The use of incorrect or faulty spare parts can mean a risk for staff.

- Only use replacement parts approved by dormakaba.

Using unauthorized replacement parts will invalidate the manufacturer's guarantee.

5 Troubleshooting

Commissioning, parameterization, operation and troubleshooting are carried out using the "Door Pilot 2" app.
This app can be downloaded via the following link or the adjacent QR code:

https://dk.world/easyassist

Every change to the DIP switch position from ON to OFF or from OFF to ON must be made deliberately.
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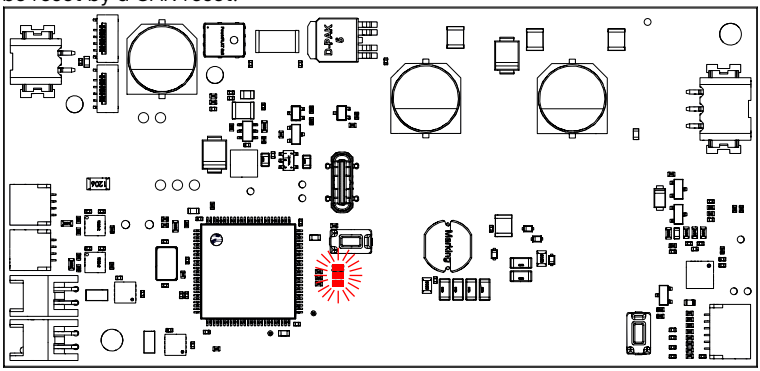
This error is indicated by a red flashing of this LED on the control board and must be reset by a CAN reset.



6 Cleaning

6.1 Safety while cleaning

⚠ DANGER

Danger to life through electric current

The unit is permanently connected to the power supply network.
An electric shock is therefore possible unless the unit is disconnected.

- For all work where no voltage may be present, the unit must be switched off, disconnected from the power supply, secured against being switched back on, and the absence of voltage must be verified.
- During work that requires voltage, there is a risk of electric shock when the voltage-carrying parts are touched.

NOTICE

Property damages caused by improper cleaning agent

Improper cleaning agents or abrasive cleaners may damage the surface of the covers.

- Only use mild soap detergent.

6.2 Cleaning routine

dormakaba recommends cleaning the covers monthly with a soft, dry cloth.
If damage is detected, please contact dormakaba Service.

7 Service by dormakaba

dormakaba offers the following services:

- Installation
- Maintenance
- Repair
- Spare parts delivery
- Retrofitting and modernization
- Updates and advice
- Education

For further information, see
http://www.dormakaba.com.

8 Disassembly and disposal

Disassembly is carried out in the reverse order of mounting and must be carried out by qualified personnel.

The product must not be disposed of in domestic waste. Dispose of the product in an environmentally friendly manner at the collection points set up for this purpose. Refer to the statutory regulations for your country.

Notes

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