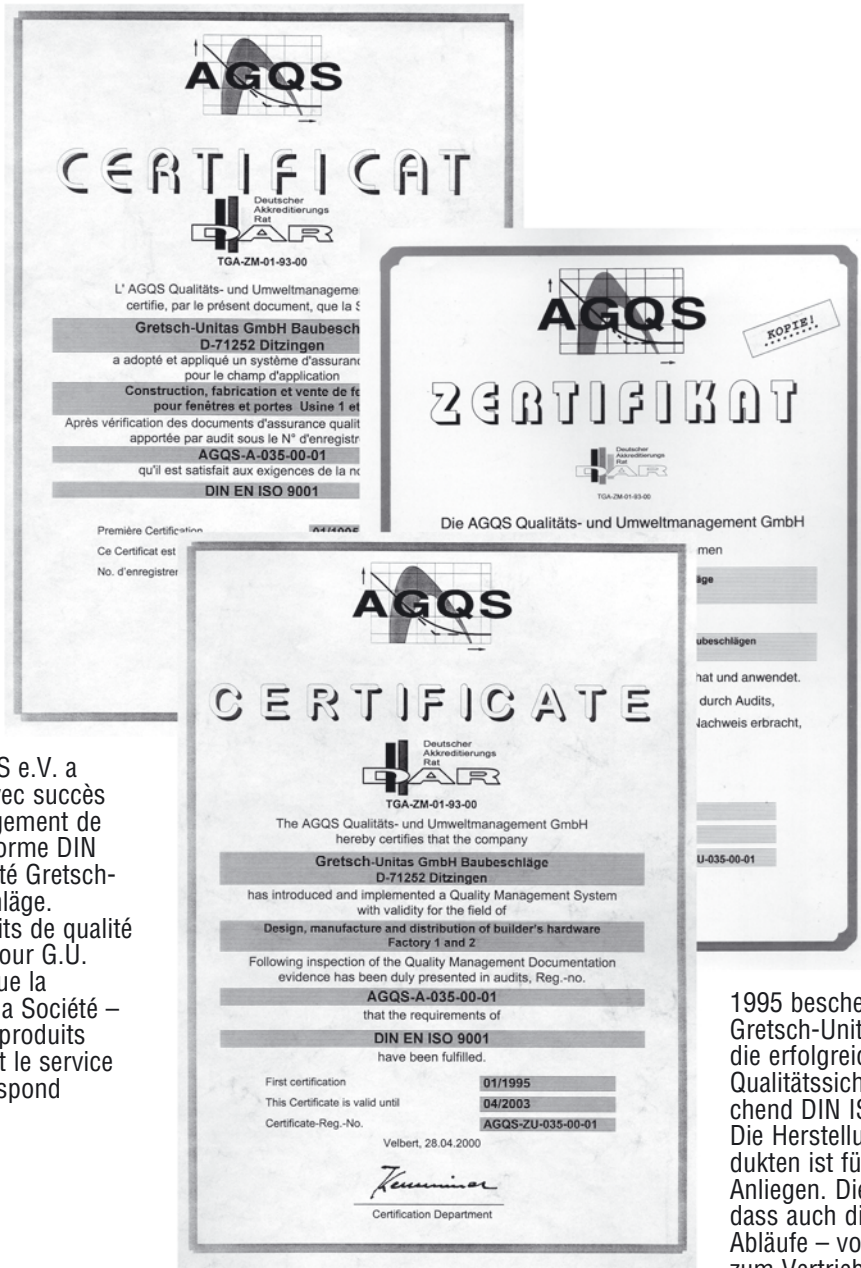


Overhead door closers, Floor springs, Rebate door closers,
Hold open systems and Door holders





**Qualité:
G.U certifié avec succès**

La norme DIN ISO 9001 définit les exigences à la structure et le mode de travail de l'entreprise et de sa gestion de qualité.

En 1995 le comité AGQS e.V. a certifié l'introduction avec succès d'un système de management de qualité conforme à la norme DIN ISO 9001 dans la Société Gretsch-Unitas GmbH Baubeschläge. La fabrication de produits de qualité est un but permanent pour G.U. Le certificat confirme que la coopération interne de la Société – du développement des produits jusqu'à la distribution et le service pour les clients – correspond également à ce but.

**Qualität:
G.U erfolgreich zertifiziert**

DIN ISO 9001 definiert die Anforderungen an die Struktur und Arbeitsweise des Unternehmens und seines Qualitätsmanagements. 1995 bescheinigte die AGQS e.V. der Gretsch-Unitas GmbH Baubeschläge die erfolgreiche Einführung eines Qualitätssicherungssystems entsprechend DIN ISO 9001. Die Herstellung von Qualitätsprodukten ist für G.U ein beständiges Anliegen. Die Zertifizierung bestätigt, dass auch die betriebsinternen Abläufe – von der Entwicklung bis zum Vertrieb und Kundenservice – mit diesem Anliegen übereinstimmen.

**Quality:
G.U successfully certified**

DIN ISO 9001 defines the requirements to structure and working methods of the enterprise and its quality management. In 1995 the committee AGQS e.V. has certified the successful introduction of a quality management system according to DIN ISO 9001 in the company Gretsch-Unitas GmbH Baubeschläge. The production of quality hardware is a permanent concern for G.U. The certificate confirms that the internal cooperation of the company – from product development to distribution and customer's service – also corresponds to this concern.

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According to the liability of manufacturers for their products as defined in the German „Law of Product Liability“ (§4 ProdHaftG), the following information on door closers and floor springs for side hung doors must be considered.

Non-observance by customers releases the manufacturer from his product liability.

1. Product information and application in accordance with the regulations

Door closers and floor springs are designed to close side hung doors after their manual opening.

The closing is hydraulically damped, the closing speed is adjustable. The required latching force depends on the sash widths and weights and is determined by EN 1154.

In the case of door closers and floor springs not standardized and/or applications other than defined, the specifications of the manufacturer are to be considered.

Door closers and floor springs are applied on installed side hung doors of metal, timber, PVC, glass or combinations of these materials.

For smoke and fire rated doors type of mounting and position are exactly prescribed. Any deviation in application is not in accordance with the regulations.

The application of door closers and floor springs in accordance with the regulations requires perpendicularly installed and smooth-running doors with correctly mounted door closers or floor springs. Their mounting and adjustment must be carried out expertly following the instructions of the manufacturer.

With unfavourable local conditions (e.g. effect of wind), door closers with a high closing force must be used. Especially on side hung doors opening outwards, door closers with backcheck should be used. Without limiting the opening angle of the door, back check provides for the protection of persons, door components, adjacent walls and objects.

A fixed open position of side hung doors can only be achieved with additional fittings or with integrated constructional components. For fire rated doors, facilities must be licenced by the German Institute of Building Technology (the proof of suitability of the door must be considered).

For damp rooms, for unprotected external mounting and for the use in an environment with aggressive air components causing corrosion, as well as for doors exposed to extremely high or low temperatures, door closers in special design are required.

Floor boxes for floor springs must be protected against soiling. If floor springs are exposed to ingress of water, e.g. in damp rooms or on entrance doors without protection against rain, the space between the floor box and floor spring body must be filled with a suitable sealing compound.

Before installing and operating door closers and floor springs including additional equipment, it is necessary to observe prevailing national or regional regulations.

2. Misuse

Misuse – that is the application of door closers for side hung doors not in accordance with the regulations – exists,

- when door closers and floor springs are used for another purpose than closing doors
- when the size of the door closer chosen does not correspond to the recommendations of the manufacturer
- when mounting and/or adjusting were effected incorrectly or inexpertly
- when obstacles in the closing area interfere with the closing
- when door hinges interfere with the closing because they are not aligned or running smoothly
- when the door leaf touches the floor
- when the door is stuck in the frame
- when closing is obstructed by gaskets, wedges etc.
- when someone grasps between frame and door leaf (danger of injury)
- when beyond the qualities confirmed by the manufacturer correct functioning is expected under extreme conditions such as storm or extraordinary high or low pressure acting on the door

- when door closers or floor springs not tested to DIN are used on fire rated doors

3. Liability

The respective entire hardware set may only consist of G.U./BKS hardware components. In the case of inappropriately assembled hardware, and/or in case of non original accessory components and/or non factory-approved accessory components, no liability is accepted.

For professional assembly G.U./BKS working drawings and mounting instructions are to be consulted.

4. Product specification

Unless described in detail in catalogues, brochures, instructions etc., special product specifications must be discussed with the manufacturer and approved by him.

The following standards apply:

DIN 18 263 part 1 and EN 1154 "Door closers with hydraulic damping". EN 1155 "Hold open devices" and EN 1158 "Door leaf coordinators".

5. Maintenance and care

Components of door closers and floor springs relevant to security must be regularly checked for tight fit and wear. Fixing screws must be tightened up, defect parts must be exchanged. Moreover, the following works have to be carried out at least once a year depending on type and purpose of the side hung door:

- All moving parts must be greased.
- The settings of the door closer (e.g. closing speed) must be checked.
- The door must be checked for smooth running.
- Door closers with special functions (hold open devices, hold open systems) all legal controls and maintenance procedures must be carried out.
- Door closers and/or defective components must be replaced immediately, if their correct function is no longer provided.
- For maintenance works only lubricants and cleaning detergents must be used which do not contain corrosive or destructive components.

6. Duty to inform and to instruct

In order to comply with the duty to inform and to instruct, planners, special trade, manufacturers, builders and users may consult the following material:

- Catalogues, brochures
- Specification clauses, quotation documents
- Mounting instructions, installation drawings, instructions for use
- EN 1154 (exclusive distribution by Beuth-Verlag GmbH, Berlin)
- Consulting field service

For the correct use, the reliable function and the maintenance and care of door closers and floor springs on side hung doors it is necessary that

- architects and planners should obtain and observe the required product information.
- authorized dealers should observe product information and indications in price lists, and above all order all instructions and pass them on to the installers.
- installers should obtain all product information, special instructions for use and maintenance and pass them on to customers and users.

The user must be informed of acceptance tests for hold open devices or hold open systems prescribed by the law.



Advantages

- Identical borehole pattern for sizes 3 and 4.
- Closing force adjustable by moving the closer body and turning the arm bearing upside down.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors.
- Valve adjustment from the side:
 - control of closing speed
 - control of latching power
 Both functions as a standard.
- Smartly shaped casing – compact styling.

Application

- The OTS 140 is suitable for side hung timber, PVC and tubular frame aluminium or steel doors.
- Left or right hand use.
- Standard mounting on hinge side, transom mounting opposite to hinge side.

06 2006-OTS-0002

EN 1154: 1996 + A1: 2002

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Range of application

Size 2* = Door leaf width up to 850 mm
 Size 3* = Door leaf width up to 950 mm
 Size 4* = Door leaf width up to 1100 mm

* Sizes according to EN 1154

Technical description

- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.
- Hydraulic damping of closing action due to continuously adjustable closing speed.
- Latching force adjusted via additional valve.
- Optional integrated hold open function adjustable for door opening angles from approx. 70° to 150°.

Ordering references

OTS 140, sizes 2 – 4	Colour	Order number
Standard arm	silver colour	K-17041-00-0-1
	dark bronze	K-17041-00-0-5
	white (RAL 9016)	K-17041-00-0-7
Hold open arm	silver colour	K-17042-00-0-1
	dark bronze	K-17042-00-0-5
	white (RAL 9016)	K-17042-00-0-7



Advantages

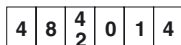
- Identical hole pattern for all closer sizes.
- Closing force adjustable by moving the closer body and turning the arm bearing upside down.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors.
- Valve adjustment from the front:
 - control of closing speed
 - control of latching force
 Both functions as standard.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Smartly shaped casing – compact styling.

Application

- Left or right hand use.
- Standard mounting on hinge side, transom mounting opposite to hinge side.

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EN 1154: 1996 + A1: 2002



Range of application

Size 2* = Door leaf width up to 850 mm
 Size 3* = Door leaf width up to 950 mm
 Size 4* = Door leaf width up to 1100 mm

* Sizes according to EN 1154

Technical description

- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.
- Optional integrated hold open function adjustable for door opening angles from approx. 70° to 150°.

Ordering references

OTS 210, sizes 2 – 4	Colour	Order number
Standard arm	silver colour	K-15710-00-0-1
	dark bronze	K-15710-00-0-5
	white (RAL 9016)	K-15710-00-0-7
	black	K-15710-00-0-6
Hold open arm	silver colour	K-15711-00-0-1
	dark bronze	K-15711-00-0-5
	white (RAL 9016)	K-15711-00-0-7
	black	K-15711-00-0-6
Mounting plate with DIN hole pattern (only for sizes 3 and 4)	silver colour	K-15714-00-0-1
	dark bronze	K-15714-00-0-5
	white (RAL 9016)	K-15714-00-0-7
	black	K-15714-00-0-6

* with slide rail it is possible to set size 2 to EN 1154



Advantages

- Identical hole pattern for all closer sizes.
- Closing force adjustable by moving the closer body and turning the arm bearing upside down.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors.
- Valve adjustment from the front:
 - control of closing speed
 - control of latching force
 Both functions as standard.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Smartly shaped casing – compact styling.

Application

- Left or right hand use. Standard mounting on hinge side; transom mounting opposite to hinge side possible only, if the fire rated door is licensed for this type of mounting (size 3 and 4 only).



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EN 1154: 1996 + A1: 2002

4	8	4	1	1	4
		2			

If the OTS 320 is used on fire rated doors, EN 1154 for door closers with hydraulic damping should be observed.

Range of application

Size 2* = Door leaf width up to 850 mm
 Size 3* = Door leaf width up to 950 mm
 Size 4* = Door leaf width up to 1100 mm

* Sizes according to EN 1154

Technical description

- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.

Ordering references

OTS 320, sizes 2 – 4	Colour	Order number
Standard arm	silver colour	K-15712-00-0-1
	dark bronze	K-15712-00-0-5
	white (RAL 9016)	K-15712-00-0-7
Mounting plate with DIN hole pattern (only for sizes 3 and 4)	silver colour	K-15714-00-0-1
	dark bronze	K-15714-00-0-5
	white (RAL 9016)	K-15714-00-0-7

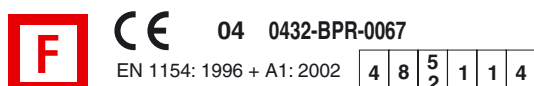


Advantages

- One door closer size for a closing force range from 2 to 5 (according to EN 1154) = 15 – 40 Nm.
- Closing force adjustable from the side, no displacement of closer body.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors.
- Valve adjustment from the front:
 - control of closing speed
 - control of latching force
 Both functions as standard.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Smartly shaped casing – compact styling.

Application

- Left or right hand use. Standard mounting on hinge side; transom mounting opposite to hinge side possible only, if the fire rated door is licensed for this type of mounting (size 3 up to 5).



If the OTS 430 is used on fire rated doors, EN 1154 for door closers with hydraulic damping should be observed.

Range of application

Size 2* = Door leaf width up to 850 mm
 Size 3* = Door leaf width up to 950 mm
 Size 4* = Door leaf width up to 1100 mm
 Size 5* = Door leaf width up to 1250 mm

* Sizes according to EN 1154

Technical description

- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.

Ordering references

OTS 430, size 2 – 5	Colour	Order number
Standard arm	silver colour	K-17051-00-0-1
	dark bronze	K-17051-00-0-5
	white (RAL 9016)	K-17051-00-0-7
Mounting plate with DIN hole pattern	silver colour	K-16547-00-0-1
	dark bronze	K-16547-00-0-5
	white (RAL 9016)	K-16547-00-0-7



Advantages

- One door closer size for a closing force range from 2 to 5 (according to EN 1154) = 15 – 40 Nm.
- Closing force adjustable from the side, no displacement of closer body.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors.
- Valve adjustment from the front:
 - control of closing speed
 - control of latching force
 Both functions as standard.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Smartly shaped casing – compact styling.

Application

- The OTS 440 is suitable for rebated timber, PVC and tubular frame aluminium or steel doors.
- DIN lh or rh use. Standard mounting on hinge side, transom mounting opposite to hinge side. Suitable for door leaf widths up to 1250 mm.
- Standard mounting on hinge side, transom mounting opposite to hinge side.

Technical description

- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.
- Optional integrated hold open function adjustable for door opening angles from approx. 70° to 150°.

Ordering references

OTS 440, size 2 – 5	Colour	Order number
Standard arm	silver colour	K-16545-00-0-1
	dark bronze	K-16545-00-0-5
	white (RAL 9016)	K-16545-00-0-7
Hold open arm	silver colour	K-16546-00-0-1
	dark bronze	K-16546-00-0-5
	white (RAL 9016)	K-16546-00-0-7
Mounting plate with DIN hole pattern	silver colour	K-16547-00-0-1
	dark bronze	K-16547-00-0-5
	white (RAL 9016)	K-16547-00-0-7

* with slide rail it is possible to set size 2 to EN 1154

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EN 1154: 1996 + A1: 2002

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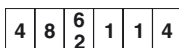
Advantages

- One door closer size for a closing force range from 2 to 6 = 15 – 60 Nm.
- Closing force adjustable from the side
- Identical hole pattern across the OTS range.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors by using the mounting plate with multi-fixing positions.
- Colour coded adjustment valves:
 - Closing speed – red valve
 - Latching force – yellow valve
 - Delayed action – blue valve
 - Backcheck – green valve
- All functions as standard. The valves are adjusted from the front – and also the latching force – without disconnecting the arms.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Easy adjustment of upper arm.
- Easy mounting of screw-on plate due to fully detachable arm.



06 0672-CPD-0092

EN 1154: 1996 + A1: 2002



If the OTS 530 is used on fire rated doors, EN 1154 for door closers with hydraulic damping should be observed.

Range of application

- Size 2* = Door leaf width up to 850 mm
- Size 3* = Door leaf width up to 950 mm
- Size 4* = Door leaf width up to 1100 mm
- Size 5* = Door leaf width up to 1250 mm
- Size 6* = Door leaf width up to 1400 mm

* Sizes according to EN 1154

Technical description

- For door leaf widths up to 1400 mm.
- Left or right hand use.
- Standard and transom mounting.
- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.
- Smartly shaped cover with concealed security fixing in a choice of colours.
- Needle bearing axle.

Ordering references

OTS 530, size 2 – 6	Colour	Order number
Standard arm	silver colour	K-13346-00-0-1
	dark bronze	K-13346-00-0-5
	white (RAL 9016)	K-13346-00-0-7
	brass colour	K-13346-00-0-3
	inox colour	K-13346-00-0-8
Hold open arm [1]	silver colour	K-13347-00-0-1
	dark bronze	K-13347-00-0-5
	white (RAL 9016)	K-13347-00-0-7
	brass colour	K-13347-00-0-3
	inox colour	K-13347-00-0-8
Mounting plate	silver colour	K-16537-00-0-1
	dark bronze	K-16537-00-0-5
	white (RAL 9016)	K-16537-00-0-7
	brass colour	K-16537-00-0-3
	inox colour	K-16537-00-0-8

[1] = not allowed for fire rated doors



Advantages

- One door closer size for a closing force range from 1 to 4 (according to EN 1154) = 9 – 26 Nm.
- Identical hole pattern across the OTS range.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors by using the mounting plate with multi-fixing positions.
- Colour coded adjustment valves:
 - Closing speed – red valve
 - Latching force – yellow valve
 All functions as standard.
 Valve adjustment from the front.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Easy mounting of slide rail in mounting bar.
- Little friction of slide arm in slide rail due to a roller.

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EN 1154: 1996 + A1: 2002

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Technical description

- For door leaf widths up to 1100 mm.
- Left or right hand use.
- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.
- Smartly shaped cover in a choice of colours.
- With new, self-centering snap fastener to fix the cover.
- Needle bearing axle.
- Standard mounting on hinge side, transom mounting opposite to hinge side; also standard mounting opposite to hinge side and transom mounting on hinge side.

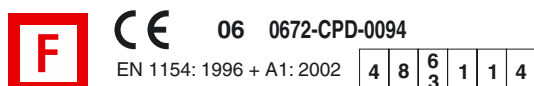
Ordering references

OTS 630, size 1 – 4	Colour	Order number
Slide rail	silver colour	K-14068-00-0-1
	dark bronze	K-14068-00-0-5
	white (RAL 9016)	K-14068-00-0-7
	brass colour	K-14068-00-0-3
	inox colour	K-14068-00-0-8
Mechanical hold open device	silver colour	K-14070-00-0-1
	dark bronze	K-14070-00-0-5
	white (RAL 9016)	K-14070-00-0-7
	brass colour	K-14070-00-0-3
	inox colour	K-14070-00-0-8
Mounting plate	silver colour	K-16537-00-0-1
	dark bronze	K-16537-00-0-5
	white (RAL 9016)	K-16537-00-0-7
	brass colour	K-16537-00-0-3
	inox colour	K-16537-00-0-8



Advantages

- The door closer OTS 730 is tested and quality surveyed to DIN EN 1154.
- One door closer size for a closing force range from 3 to 6 = 18 – 60 Nm.
The OTS 730 may be used with:
 - Fire protected doors to DIN 18 082
 - Smoke control doors to DIN 18 095
 - Smoke control doors licensed by a construction control board, provided the licence notice allows the use of door closers to EN 1154.
- Identical hole pattern across the OTS range.
- Easy fixing on timber, PVC, tubular frame aluminium or steel doors by using the mounting plate with multi-fixing positions.
- Colour coded adjustment valves:
 - Closing speed – red valve
 - Latching force – yellow valve
 - Backcheck – green valve
 All functions as standard. The valves are adjusted from the front.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Easy mounting of slide rail in mounting bar.
- Little friction of slide arm in slide rail due to a roller.



If the OTS 730 is used on fire rated doors, EN 1154 for door closers with controlled closing should be observed.

Range of application

Size 3* = Door leaf width up to 950 mm
 Size 4* = Door leaf width up to 1100 mm
 Size 5* = Door leaf width up to 1250 mm
 Size 6* = Door leaf width up to 1400 mm

* Sizes according to EN 1154

Technical description

- For door leaf widths up to 1400 mm.
- Left or right hand use.
- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation via security valve.
- Smartly shaped cover in a choice of colours.
- With new, self-centering snap fastener to fix the cover.
- Needle bearing axle.
- Standard mounting to EN 1154.
- Transom mounting opposite to hinge side; standard mounting opposite to hinge side and transom mounting on hinge side only possible, if the fire rated door is licensed for this type of mounting.

Ordering references

OTS 730, size 3 – 6	Colour	Order number
Slide rail	silver colour	K-13429-00-0-1
	dark bronze	K-13429-00-0-5
	white (RAL 9016)	K-13429-00-0-7
	brass colour	K-13429-00-0-3
	inox colour	K-13429-00-0-8
Mechanical hold open device [1]	silver colour	K-13484-00-0-1
	dark bronze	K-13484-00-0-5
	white (RAL 9016)	K-13484-00-0-7
	brass colour	K-13484-00-0-3
	inox colour	K-13484-00-0-8
Mounting plate	silver colour	K-16777-00-0-1
	dark bronze	K-16777-00-0-5
	white (RAL 9016)	K-16777-00-0-7
	brass colour	K-16777-00-0-3
	inox colour	K-16777-00-0-8

[1] = not allowed for fire rated doors

Sizes 3, 4 and 5 to DIN 18263 part 1



Advantages

- Flat form door closer OTS 81 coming in sizes 3, 4 and 5 to DIN 18263 part 1. Permanently quality controlled by the National Material Testing Department North Rhine-Westphalia, Dortmund. With quality door closer guarantee.
- Sizes 3, 4 and 5 to DIN 18263 part 1 must only be used with standard fire rated doors or with fire and smoke protection doors licensed by a construction control board.
- Small installation height and 16 mm hole centre distance only. Easy mounting on timber, sheet steel, PVC and aluminium doors.
- High efficiency factor due to crank mechanism.

Ordering references

OTS 81	Size	Order number		
		silver colour	dark bronze	white
with standard arm DIN left hand	2	B 8121 0000	B 8121 0005	B 8121 0016
	3	B 8131 0000	B 8131 0005	B 8131 0016
	4	B 8141 0000	B 8141 0005	B 8141 0016
	5	B 8151 0000	B 8151 0005	B 8151 0016
with standard arm DIN right hand	2	B 8122 0000	B 8122 0005	B 8122 0016
	3	B 8132 0000	B 8132 0005	B 8132 0016
	4	B 8142 0000	B 8142 0005	B 8142 0016
	5	B 8152 0000	B 8152 0005	B 8152 0016
with hold open arm DIN left hand	2	B 8121 0200	B 8121 0205	B 8121 0216
	3	B 8131 0200	B 8131 0205	B 8131 0216
	4	B 8141 0200	B 8141 0205	B 8141 0216
	5	B 8151 0200	B 8151 0205	B 8151 0216
with hold open arm DIN right hand	2	B 8122 0200	B 8122 0205	B 8122 0216
	3	B 8132 0200	B 8132 0205	B 8132 0216
	4	B 8142 0200	B 8142 0205	B 8142 0216
	5	B 8152 0200	B 8152 0205	B 8152 0216

Technical description

- Lh and rh reversible by turning over the spring.
- Standard and transom mounting.
- Door opening angle 90° or 180°. For fire protection and smoke protection doors: 180° with extended linkage. From an opening angle of 45° controlled closing via crank mechanism.
- Closing speed independent from ambient temperature and steplessly adjustable.
- Latching force adjustable via linkage.
- Closing force adjustable by changing the initial spring tension.
- Due to their identical drill pattern, door closers of the sizes 2, 3 and 4 are interchangeable.

Application

Side hung doors of timber, sheet steel, PVC and aluminium, in particular fire and smoke protection doors.

Which size for which door leaf width?

Fire and smoke protection doors	Other doors	Size of door closer
–	900 mm	2
905 mm	1100 mm	3
1125 mm	1250 mm	4
1280 mm	1400 mm	5

Sizes 2 to 6 for rustic style doors



Advantages

- Overhead door closer OTS 80 with massive components for doors of rustic design.
- Size 6 with especially high closing force. Usable for doors with sash widths over 1400 mm, gates and heavy steel doors.
- High efficiency factor due to crank mechanism.
- Comfortable door opening due to little resistance.

Ordering references

OTS 80	Size	Order number	
		silver colour	dark bronze
with standard arm DIN left hand	2	B 8021 0000	B 8021 0005
	3	B 8031 0000	B 8031 0005
	4	B 8041 0000	B 8041 0005
	5	B 8051 0000	B 8051 0005
	6	B 8061 0000	B 8061 0005
	with standard arm DIN right hand	2	B 8022 0000
3		B 8032 0000	B 8032 0005
4		B 8042 0000	B 8042 0005
5		B 8052 0000	B 8052 0005
6		B 8062 0000	B 8062 0005
with hold open arm DIN left hand		2	B 8021 0200
	3	B 8031 0200	B 8031 0205
	4	B 8041 0200	B 8041 0205
	5	B 8051 0200	B 8051 0205
	6	B 8061 0200	B 8061 0205
	with hold open arm DIN right hand	2	B 8022 0200
3		B 8032 0200	B 8032 0205
4		B 8042 0200	B 8042 0205
5		B 8052 0200	B 8052 0205
6		B 8062 0200	B 8062 0205

Technical description

- Lh and rh reversible by turning over the spring.
- Standard and transom mounting.
- Door opening angle 90° or 180°. From an opening angle of 45° controlled closing via crank mechanism.
- Steplessly adjustable closing speed.
- Latching force adjustable via linkage.
- Closing force adjustable by changing the initial spring tension.
- Due to their identical drill pattern, door closers of the sizes 2, 3, 4, respectively 5 and 6 are interchangeable.
- Door closer OTS 80 with hold open arm: any hold open angle up to 150° possible.

Door opening angle

If the door allows for an opening angle over 110°, it is necessary either to

- use an extended linkage or
- to place the door closer further towards the door hinge (which, however, reduces the closing force).

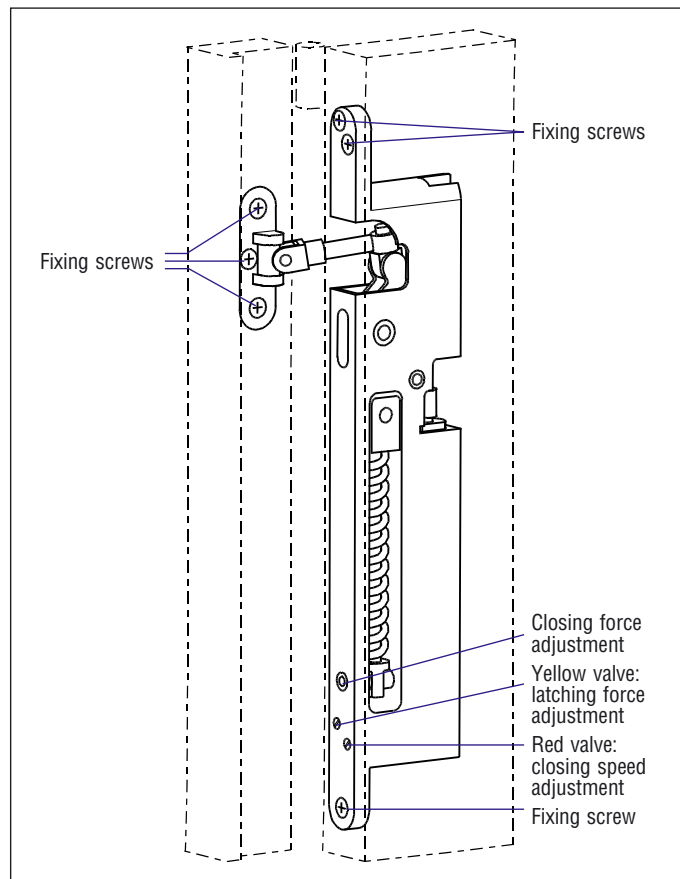
Application

Suitable for all types of side hung doors except for fire and smoke protection doors.

Which size for which door leaf width?

Door leaf width up to	Size of door closer
950 mm	2
1100 mm	3
1250 mm	4
1400 mm	5
>1400 mm	6

to EN 1154 – for concealed installation in the vertical door rebate

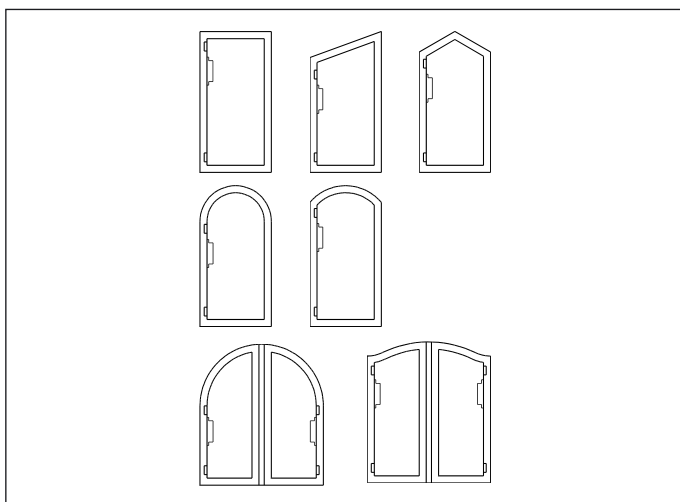


Advantages

- Concealed installation – no fittings in the way.
- Neat appearance of the door – the closer is "invisible".
- Universal application for all door types including arched doors (round, segmental, lancet).
- For timber, PVC and metal doors.
- All functions adjustable from the front: closing force, closing speed (stepless), door latching from 7° approx.
- Colour coded adjustment valves:
 - Closing speed – red valve
 - Latching force – yellow valve
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.

Technical description

- Max. width of door leaf:
 - FTS 20 1100 mm
 - FTS 24 1250 mm
- High closing pressure in closed position.
- Easy opening of the door due to decreasing opening resistance
- High efficiency due to needle bearing in the pivots.
- Safety valve in closer.
- Vertical installation below the top door hinge.
- Suitable for DIN lh and rh doors.
- Suitable for flush and rebated doors.
- Anodized aluminium body, linkage arm galvanized steel.



Ordering references

Description	Order number
Rebate door closer FTS 20 ■ Min. door leaf thickness 30 mm ■ Max. door weight 80 kg ■ Closing force 5 – 18 Nm	K-15144-00-0-0
CE 06 2006-FTS-0004 EN 1154: 1996 + A1: 2002 4 8 2 0 1 4	
Rebate door closer FTS 24 ■ Min. door leaf thickness 40 mm ■ Max. door weight 140 kg ■ Closing force 12 – 30 Nm	K-15145-00-0-0
CE 06 2006-FTS-0004 EN 1154: 1996 + A1: 2002 4 8 4 0 1 4	



Advantages

- Closing force continuously adjustable from size 1 – 4 (9 – 26 Nm) to EN 1154.
- Usable on DIN lh and rh single and double action swing doors. Simplified storage.
- Installation height only 42 mm, therefore suitable for low floor screeds.
- Aluminium body, galvanised cement case protected against corrosion.
- Optimum longitudinal, lateral and vertical adjustment within the cement case. Easy fixing on doors.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- As a standard, the UTS range is provided with a separate valve for latching force adjustment.
- Mechanic hold open (catch) as an option.

Application

The UTS 42 is suitable for single and double action swing doors of timber, steel, glass, PVC and aluminium.

CE 06 2006-UTS-0003

EN 1154: 1996 + A1: 2002

4	8	4	0	1	4
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Dimensions of cement case

- Length 276 mm
- Width 82 mm
- Height 42 mm

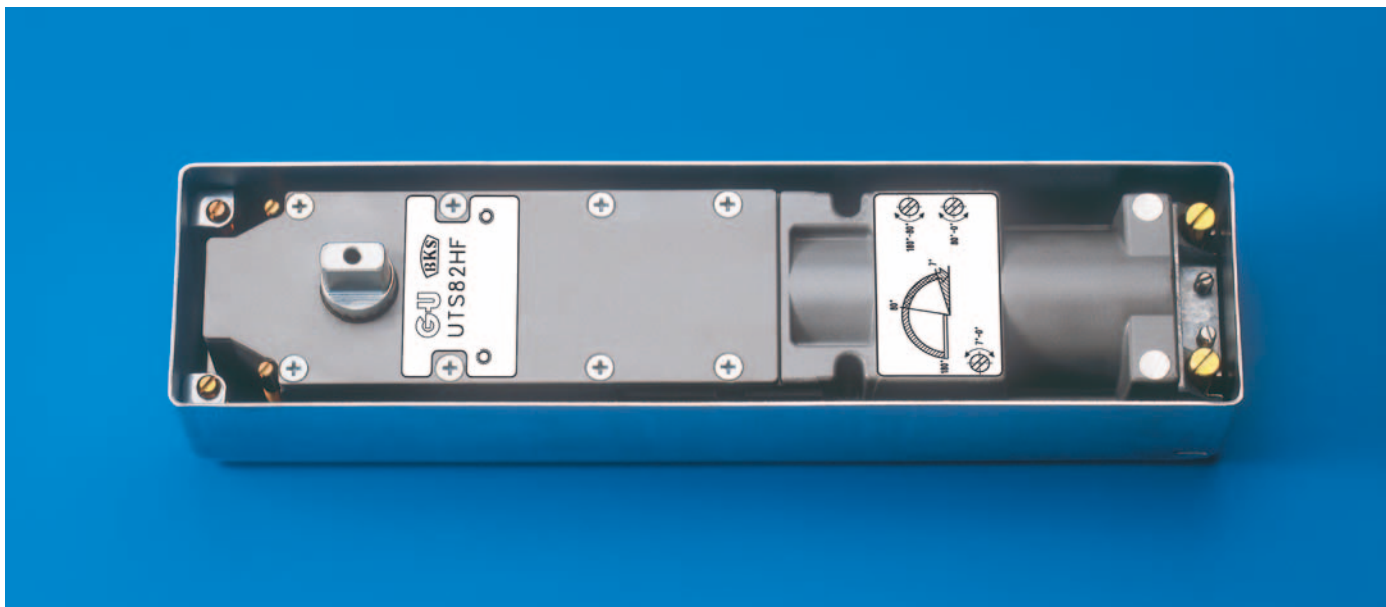
Technical description

- Door leaf width up to 1100 mm.
- Door weight up to 120 kg.
- Opening and closing angle up to 175°, provided the constructional conditions allow for it.
- Continuously adjustable closing speed via valve with optimum thermal characteristics.
- Closing force continuously adjustable from 9 – 26 Nm.
- Backcheck function from an opening angle of approx. 80°. Latching force (from approx 7°) continuously adjustable, on/off switchable.
- Protection against forced operation via security valve.
- Removable divided axle with self-centering floating axle.
- Hold open possible at 90°.
- Cover plate identical for the whole UTS range, usable both on DIN lh and rh single and double action swing doors.

Ordering references

Description	Order number
UTS 42	K-15342-00-0-0
Mechanic hold open at 90°/85° [1]	K-15343-00-0-0
Mechanic hold open at 95°/90° [1]	K-15344-00-0-0
Cover	
Stainless steel	K-15385-00-0-8
Pottant	K-13048-00-0-0

[1] = double swing doors/swing doors



Advantages

- Usable on DIN lh and rh single and double action swing doors. Simplified storage.
- UTS 82 HF: Hydraulic hold open device on/off switchable, delayed closing action as a standard.
- Aluminium body, galvanised cement case protected against corrosion.
- Optimum longitudinal, lateral and vertical adjustment within the cement case. Easy fixing on doors.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- As a standard, the UTS range is provided with a separate valve for latching force adjustment.

Application

UTS 82: Floor spring for internal doors (closing force approx. 25 Nm). Universal application on DIN rh and lh single and double action swing doors.

UTS 82 HF: Floor spring for internal doors. Same design as UTS 82, however with hydraulic hold open device, on/off switchable, delayed closing action as a standard.

CE 06 2006-UTS-0003

EN 1154: 1996 + A1: 2002

4	8	3	0	1	4
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Dimensions of cement case

- Length 342 mm
- Width 83 mm
- Height 60 mm

Technical description

- Door leaf width up to 1000 mm.
- Door weight up to 100 kg.
- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing action from any opening angle. Closing speed continuously adjustable via plastic valve with optimum thermal characteristics.
- Closing force approx. 25 Nm.
- Backcheck function from an opening angle of approx. 80°. Latching force (from approx 7°) continuously adjustable, on/off switchable.
- UTS 82 HF: hydraulic hold open, on/off switchable.
- UTS 82 HF: Hold open range continuously adjustable from approx. 80° up to 180°.
- UTS 82 HF: Delayed action range adjustable (approx. 180° – 80°).
- Protection against forced operation via security valve.
- Vertical adjustment within the cement case by –1 / +3 mm.
- Removable divided axle with self-centering crown gearing.
- Cover plate identical for the whole UTS range, usable both on DIN lh and rh single and double action swing doors.

Ordering references

Description	Order number
UTS 82	K-12923-00-0-0
UTS 82 HF	K-13198-00-0-0
Covers	
Stainless steel	K-12928-00-0-8
Brass, matt finish	K-12929-00-0-0
Aluminium anodised	K-12926-00-0-1
Aluminium anodised dark bronze	K-12926-00-0-5
Pottant	K-13048-00-0-0



Advantages

- Sizes 2 – 6 (to EN 1154) adjustable from above: 1 floor spring for 5 sizes. Usable on DIN lh and rh single and double action swing doors. Simplified storage.
- Hydraulic hold open, on/off switchable; delayed action as a standard
- Aluminium body, galvanised cement case protected against corrosion.
- Optimum longitudinal, lateral and vertical adjustment within the cement case. Easy fixing on doors.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- As a standard, the UTS range is provided with a separate valve for latching force adjustment.

Application

Floor spring with hydraulic hold open device, on/off switchable. Size adjustment from above and delayed action as a standard. Universal application on DIN rh and lh single and double action swing doors.

CE 06 2006-UTS-0003

EN 1154: 1996 + A1: 2002

4	8	6	0	1	4
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Dimensions of cement case

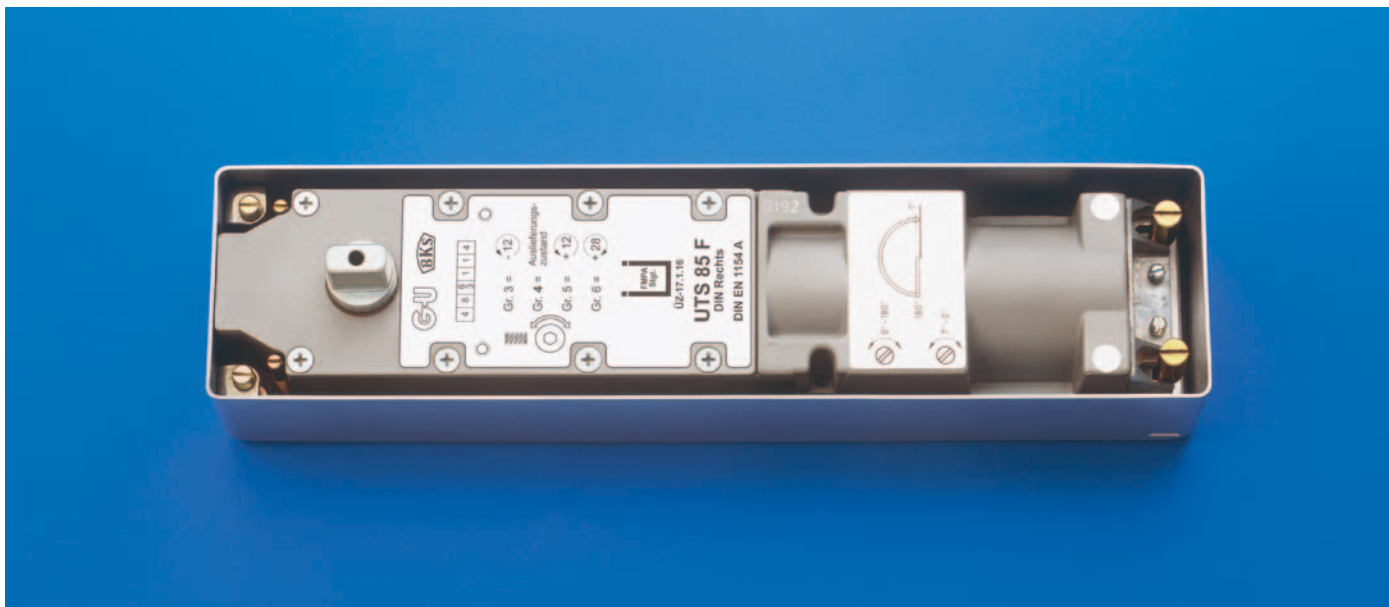
- Length 342 mm
- Width 83 mm
- Height 60 mm

Technical description

- Door leaf width up to 1400 mm.
- Door weight up to 300 kg.
- Door opening and closing angle 180°, provided the constructional conditions allow for it.
- Controlled closing action from any opening angle.
- Closing speed continuously adjustable via plastic valve with optimum thermal characteristics.
- Size adjustable from above, closing force 15 – 55 Nm. Back-check function from an opening angle of approx. 80°. Latching force (from approx 7°) continuously adjustable, on/off switchable.
- Hydraulic hold open, on/off switchable.
- Hold open range continuously adjustable from approx. 80° up to 180°. Delayed action range adjustable (approx. 180° – 80°).
- Protection against forced operation via security valve.
- Vertical adjustment within the cement case by –1 / +3 mm.
- Removable divided axle with self-centering crown gearing.
- Cover plate identical for the whole UTS range, usable both on DIN lh and rh single and double action swing doors.

Ordering references

Description	Order number
UTS 85 HF	K-12925-00-0-0
Covers	
Stainless steel	K-12928-00-0-8
Brass, matt finish	K-12929-00-0-0
Aluminium anodised	K-12926-00-0-1
Aluminium anodised dark bronze	K-12926-00-0-5
Pottant	K-13048-00-0-0

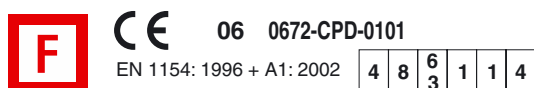


Advantages

- The UTS 85 F is adjustable for sizes 3 – 6 to EN 1154 and may be used with:
 - fire rated doors to DIN 18082, part 3
 - smoke control doors to DIN 18095
 - fire rated doors licensed by a construction control board, provided the license permits the use of door closers to EN 1154.
- Size adjustable from above: 1 floor spring for 4 sizes. Suitable for lh and rh doors.
- Aluminium body, galvanised cement case protected against corrosion.
- Optimum longitudinal, lateral and vertical adjustment within the cement case. Easy fixing on doors.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- As a standard, the UTS range is provided with a separate valve for latching force adjustment.

Application

Floor spring with size adjustment from above for DIN lh and rh doors. Available for fire rated doors to EN 1154.



If the UTS 85 F is used on fire rated doors, EN 1154 for door closers with controlled closing should be observed.

Dimensions of cement case

- Length 342 mm
- Width 83 mm
- Height 60 mm

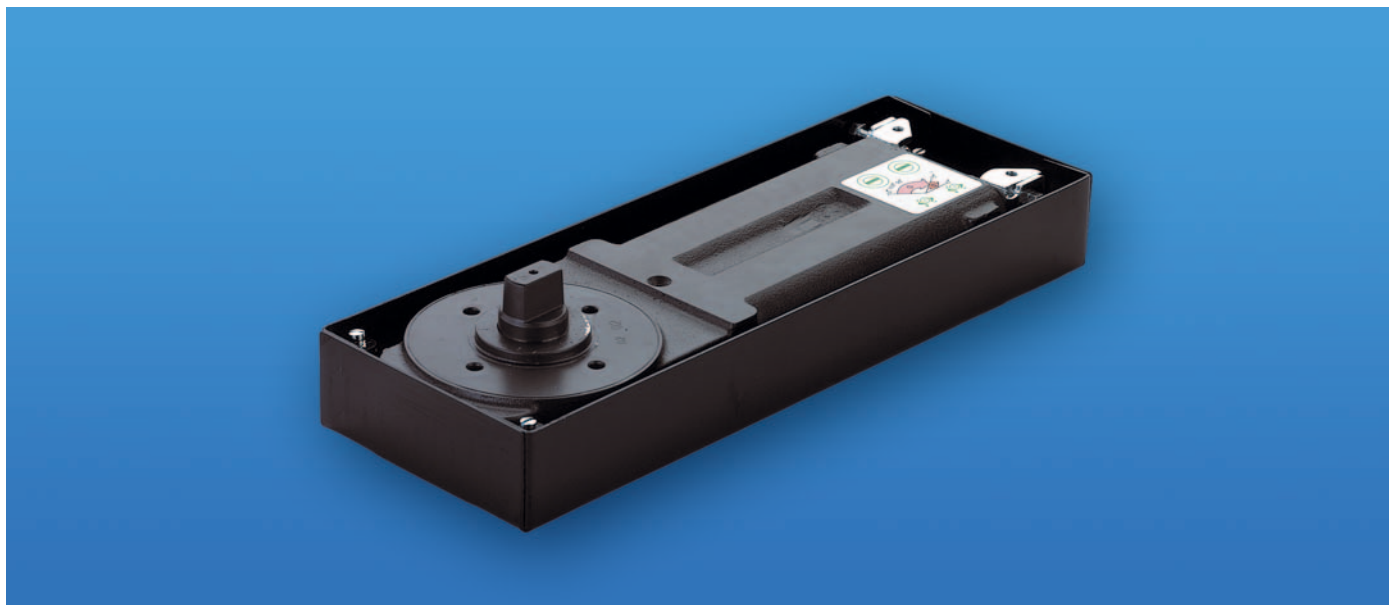
Technical description

- Door leaf width up to 1400 mm with standard doors.
- Door weight up to 300 kg.
- Door opening and closing angle 180°, provided the constructional conditions allow for it.
- Controlled closing action from any opening angle.
- Protection against forced operation via security valve.
- Vertical adjustment within the cement case by –1 / +3 mm.
- Removable divided axle with self-centering crown gearing.
- Cover plate identical for the whole UTS range.
- Latching force (from approx 7°) continuously adjustable via separate valve, on/off switchable.
- Backcheck function from an opening angle of approx. 80°.

Ordering references

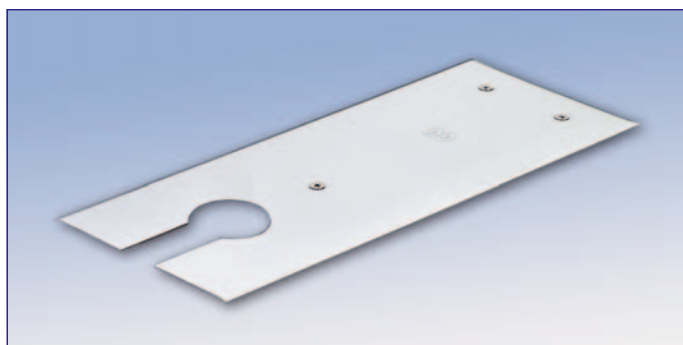
Description	DIN	Order number
UTS 85 F	lh	K-12924-00-L-0
	rh	K-12924-00-R-0
Covers		
Stainless steel		K-12928-00-0-8
Brass, matt finish		K-12929-00-0-0
Aluminium anodised		K-12926-00-0-1
Aluminium anodised dark bronze		K-12926-00-0-5
Pottant		K-13048-00-0-0

for internal and external double swing doors



Advantages

- Usable for swing doors of timber, PVC and glass.
- Installation height only 40 mm.
- Grey cast iron, galvanised cement case protected against corrosion.
- Max. door leaf width 1200 mm.
- Optimum longitudinal, lateral and vertical adjustment within the cement case.
- Plastic valves with optimum thermal characteristics provide continuous adjustment of closing force and latching force.



Cover V-00704-00-0-*

Dimensions of cement case

- Length 308 mm
- Width 108 mm
- Height 40 mm

Technical description

- Door leaf width up to 1200 mm, door weight up to 120 kg.
- Door opening angle up to 130°, provided the constructional conditions allow for it.
- Standard hold open at 90°.
- Backcheck function from an opening angle of approx. 80°.

Included in delivery

- Floor spring
- Cement case
- Cover, stainless steel matt finish for swing doors
- Top pivot for swing doors
- Bottom pivot for swing doors
- Spindle arm for swing doors

Ordering references

Description	Size Nm [1]	Finish of cover	Order number
UTS 840	25	SS matt finish	V-00700-25-0-8H
	33	SS matt finish	V-00700-33-0-8H
Cover		SS polished	V-00704-00-0-8I
		Titanium	V-00704-00-0-3R

[1] Size 25: Internal doors up to 1000 mm width
 Size 33: Internal doors up to 1200 mm width
 External doors up to 1000 mm width

with linear drive and electromechanic hold-open device in the slide rail to EN 1154



Advantages

- The OTS 730 FE is tested to the prevailing regulations for hold-open systems and licensed by the German Institute of Building Technology (DIBt).
- The OTS 730 FE is adjustable from the side for sizes 3 – 6 to EN 1155 and may be used with:
 - Fire rated doors to DIN 18082
 - Smoke control doors to DIN 18095
 - Fire rated doors approved by a construction control board, provided the licence notice allows the use of door closers to EN 1155.
- Colour coded adjustment valves:
 - Closing speed – red valve
 - Latching force – yellow valve
 - Backcheck – green valve
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- Easy and form-fit mounting of slide rail in mounting bar.
- Little friction of slide arm in slide rail due to a roller.
- Small installation height of slide rail (22 mm) allows for installation in slim frames.
- Large hold-open of approx. 75° – 150° door opening angle.
- The electromechanic hold-open device guarantees the selected hold-open position of the door during any period of time without fall-back angle.
- The OTS 730 FE is licensed by construction control boards for the use with various types of monitoring systems (e.g. smoke detecting systems). An overview of the current approvals is available on request.

Technical description

- Door leaf widths up to 1400 mm for fire rated and smoke control doors.
- Left or right hand use.
- Door opening angle 180°, provided the constructional conditions allow for it.
- Controlled closing from any opening angle.
- Protection against forced operation both in closing and opening direction via security valves.
- Smartly shaped cover in a choice of colours.
- With new, self-centering snap fastener to fix the cover.
- Needle bearing axle.
- Standard mounting to DIN 18263 part 2
- Technical data
 - Supply voltage 24 V DC ±15%
 - Power input 0,067 A
 - Current consumption 1,6 Watt
 - Duty ratio 100%
 - Voltage standing-wave ratio < 30%
- Flush or on-wall installation of connecting cables.
- If the OTS 730 FE is used as hold-open device in a hold-open system for fire rated and smoke control doors, the particular national or regional regulations for hold-open systems must be observed.

Ordering references

OTS 730 FE, size 3 – 6	Colour	Article number
with electromechanic hold-open device	silver colour	K-13896-00-0-1
	dark bronze	K-13896-00-0-5
	white	K-13896-00-0-7
	brass colour	K-13896-00-0-3
	inox colour	K-13896-00-0-8

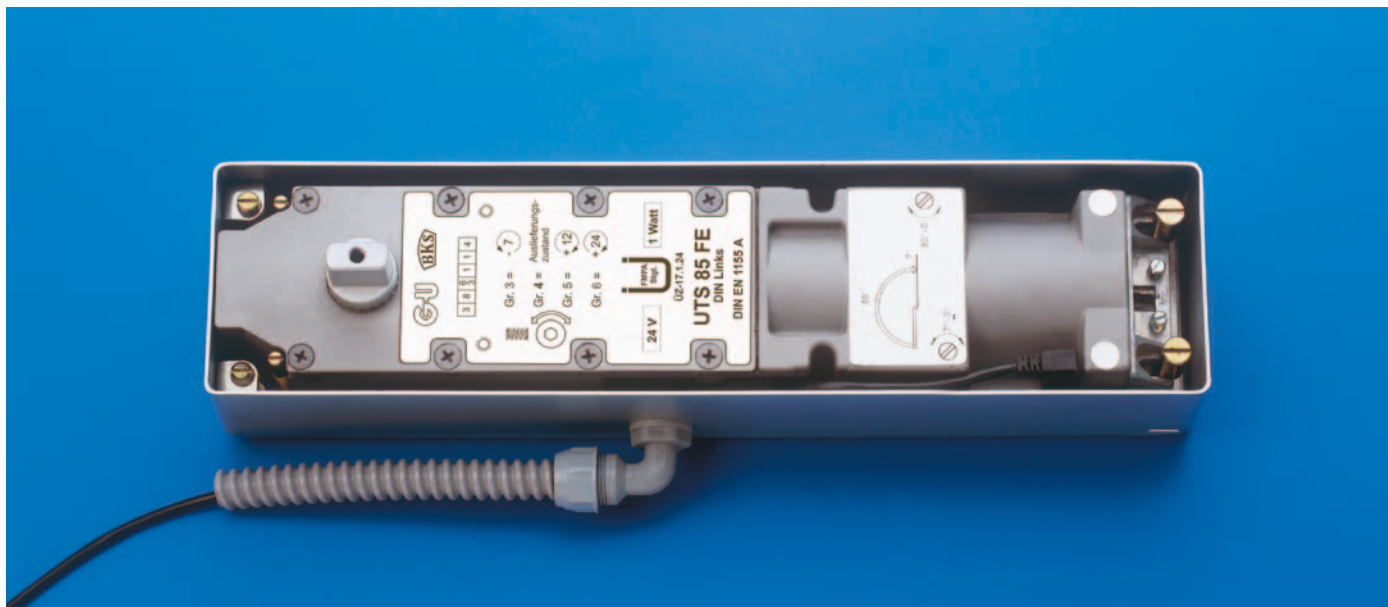


06 0672-CPD-0096

EN 1155: 1996 + A1: 2002

4	8	6	1	1	4
		3			

with electrohydraulic hold-open device to EN 1155



Advantages

- The UTS 85 FE is tested to the prevailing regulations for hold-open systems and licensed by the German Institute of Building Technology (DIBt).
- The UTS 85 FE is adjustable from above for sizes 3 – 6 to EN 1155 and may be used with:
 - Fire rated doors to DIN 18082
 - Smoke control doors to DIN 18095
 - Fire rated doors approved by a construction control board, provided the licence notice allows the use of door closers to EN 1154.
- Aluminium body, galvanised cement case protected against corrosion.
- Optimum longitudinal, lateral and vertical adjustment within the cement case. Easy fixing on doors.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- As a standard, the UTS range is provided with a separate valve for latching force adjustment.
- Minimal force consumption (1 Watt). Several floor springs can be connected to a smoke protect switch.
- The supply cable with sprayed on socket allows for an easy connection with the plug on the floor spring case. The plug connection is water proof. The length of both cable and hose is approx. 3,5 m.
- Floor spring with electrohydraulic hold-open device and size adjustment from above. Suitable for DIN lh and rh doors. Licensed by construction control boards.
- The UTS 85 FE is licensed by construction control boards for the use with various types of monitoring systems (e.g. smoke detecting systems). An overview of the current approvals is available on request.

Technical description

- Door leaf widths for fire rated and smoke control doors
 - 1400 mm to EN 1154
- For door leaf weights up to 300 kg.
- Door opening and closing angle 180°, provided the constructional conditions allow for it.
- Controlled closing action from any opening angle.
- Protection against forced operation via security valve.
- Vertical adjustment within the cement case by –1 / +3 mm.
- Removable divided axle with self-centering crown gearing.
- Cover plate identical for the whole UTS range.
- Latching force (from approx 7°) continuously adjustable, on/off switchable.
- Backcheck function from an opening angle of approx. 80°.
- Supply voltage 24 V DC ±15%
- Power input 0,042 A
- Current consumption 1 Watt
- Duty ratio 100%
- Voltage standing-wave ratio < 30%
- Hold-open range continuously adjustable from approx. 80° up to 180°.
- If the UTS 85 FE is used as hold-open device in a hold-open system for fire rated and smoke control doors, the respective regional or national regulations for hold-open systems must be observed.

Ordering references

Description	DIN	Article number
UTS 85 FE	lh	K-13447-00-L-0
	rh	K-13447-00-R-0

Cover plates

Stainless steel	K-12928-00-0-8
Brass, matt finish	K-12929-00-0-0
Aluminium anodised	K-12926-00-0-1
Aluminium anodised dark bronze	K-12926-00-0-5
Pottant	K-13048-00-0-0



06 0672-CPD-0102

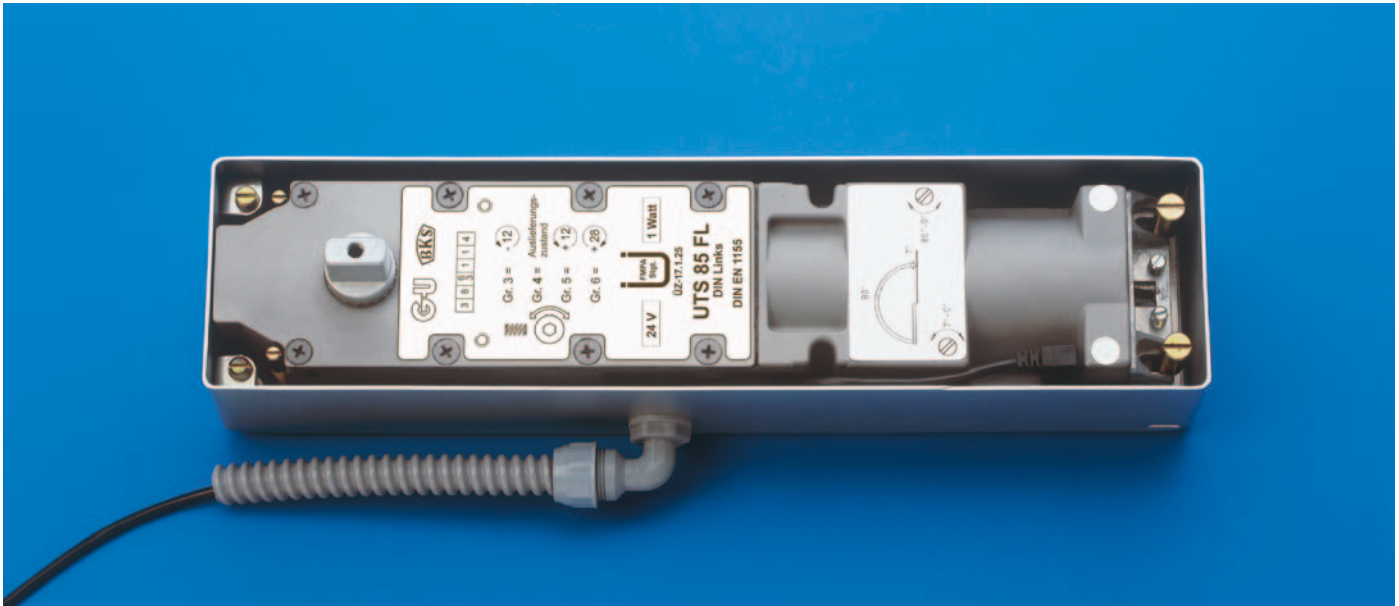
EN 1155: 1996 + A1: 2002

4	8	6	1	1	4
		3			

Dimensions of cement case

- Length 342 mm
- Width 83 mm
- Height 60 mm

with electrohydraulic swing-free mechanism to EN 1155



Advantages

- The UTS 85 FL is tested to the prevailing regulations for hold-open systems and licensed by the German Institute of Building Technology (DIBt).
- The UTS 85 FL is adjustable from above for sizes 3 – 6 to EN 1155 and may be used with:
 - Fire rated doors to DIN 18082, part 3
 - Smoke control doors to DIN 18095
 - Fire rated doors licensed by a construction control board, provided the license permits the use of door closers to EN 1154.
- Aluminium body, galvanised cement case protected against corrosion.
- Optimum longitudinal, lateral and vertical adjustment within the cement case. Easy fixing on doors.
- Plastic valves with optimum thermal characteristics provide consistent closing speed also with changes in temperature.
- As a standard, the UTS range is provided with a separate valve for latching force adjustment.
- Minimal force consumption (1 Watt). Several floor springs can be connected to a smoke protect switch.
- The supply cable with sprayed on socket allows for an easy connection with the plug on the floor spring case. The plug connection is water proof. The length of both cable and hose is approx. 3,5 m.
- With deactivated linkage between door closer mechanism and door leaf, the door is freely movable both in opening and closing direction.
- Floor spring with swing-free function and size adjustment from above. Suitable for DIN lh and rh doors. Licensed by construction control boards.
- The UTS 85 FL is licensed by construction control boards for the use with various types of monitoring systems (e.g. smoke detecting systems). An overview of the current approvals is available on request.

Technical description

- Door leaf widths for fire rated and smoke control doors – 1400 mm to EN 1154
- Door weight up to 300 kg.
- Door opening and closing angle 180°, provided the constructional conditions allow for it.
- Protection against forced operation via security valve.
- Vertical adjustment within the cement case by –1 / +3 mm.
- Removable divided axle with self-centering crown gearing.
- Cover plate identical for the whole UTS range.
- Latching force (from approx 7°) continuously adjustable, on/off switchable.
- Backcheck function from an opening angle of approx. 80°.
- Supply voltage 24 V DC ±15%
- Power input 0,042 A
- Current consumption 1 Watt
- Duty ratio 100%
- Voltage standing-wave ratio < 30%
- The operating range of the activated swing-free function reaches from 0° to 180°.
- The UTS 85 FL is licensed for the use with various types of monitoring systems (e.g. smoke detecting systems). An overview of the current licences is available on request.

Ordering references

Description	DIN	Order number
UTS 85 FL	lh	K-13449-00-L-0
	rh	K-13449-00-R-0

Covers

Stainless steel	K-12928-00-0-8
Brass, matt finish	K-12929-00-0-0
Aluminium anodised	K-12926-00-0-1
Aluminium anodised dark bronze	K-12926-00-0-5
Pottant	K-13048-00-0-0



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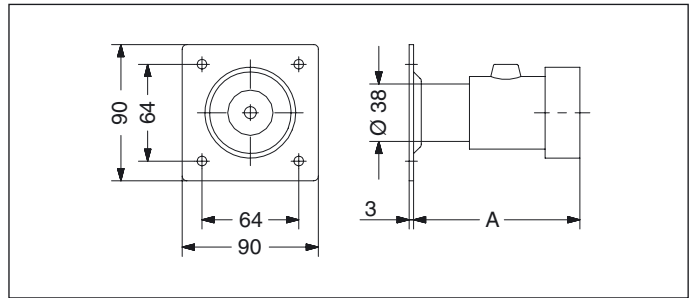
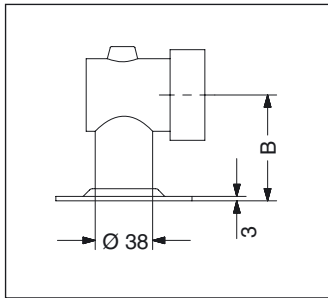
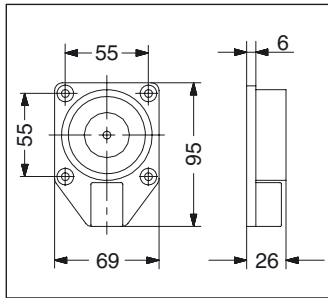
EN 1155: 1996 + A1: 2002

4	8	6	1	1	4
		3			

Dimensions of cement case

- Length 342 mm, width 83 mm, height 60 mm

Door hold-open magnets



Basic type

with mounting plate and concealed connecting terminal

Holding force	Article no.
800 N	B 8400 0320

With spacer

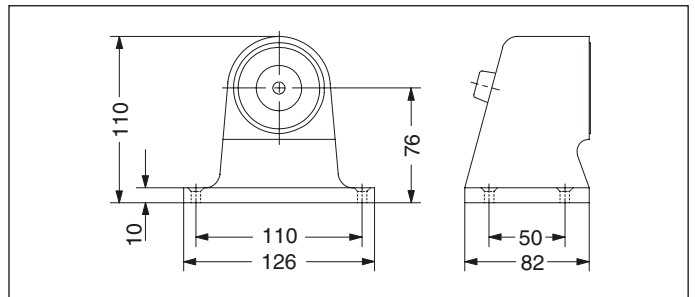
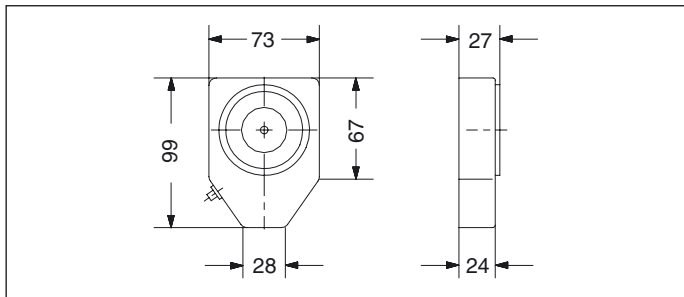
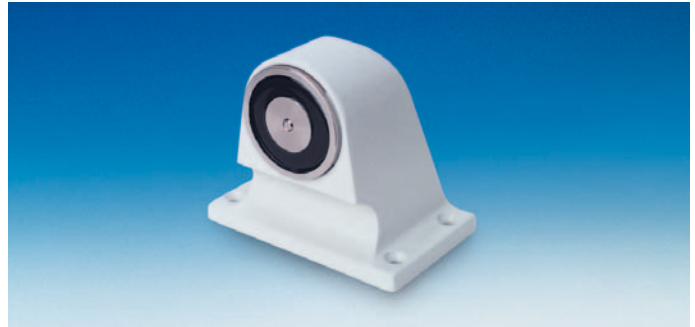
Floor mounting – spacer variable in length by cutting the spacer tube.

Holding force 800 N

Wall mounting – spacer variable in length by cutting the spacer tube.

Holding force 800 N

Dim "A"	Dim "B"	Article number
110	70	B 8400 0321
150	110	B 8400 0322
260	220	B 8400 0323
390	350	B 8400 0324



Wall mounting

Surface mounting – hold-open magnet in sheet steel case

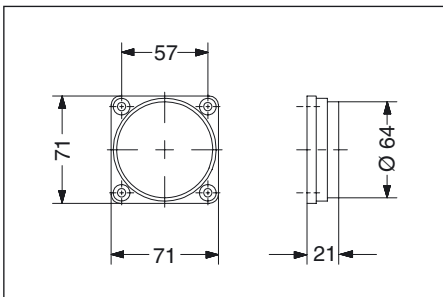
Holding force	Article no.
800 N	B 8400 0325

Floor mounting

Hold-open magnet in aluminium case

Holding force	Article no.
800 N	B 8400 0327

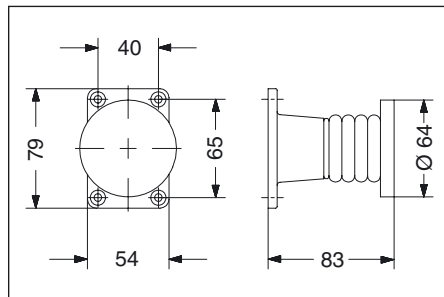
Armature plates



Armature plate

Sprung mounting plate for alignment with magnet

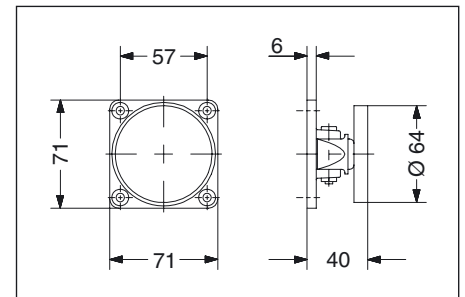
Article no. B 8400 0400



Armature plate

Mounting case with spring damper for the soft and springy latching of heavy doors.

Article no. B 8400 0401



Armature plate

Mounting plate with additional adjustment to extreme angles between door and hold-open magnet.

Article no. B 8400 0402

Hold-open magnets and armature plates

Features and advantages

- The hold-open magnets are licensed to the regulations for hold-open systems by the German Institute of Building Technology (DIBt), their quality is controlled by the German Association of Non-Life Insurers (VdS).
- In combination with door closers to DIN 18263 parts 1 – 3, door hold-open magnets make up a hold-open system and may be used with:
 - Fire rated doors to DIN 18082
 - Smoke control doors to DIN 18095
 - Fire rated doors approved by a construction control board, provided the licence notice allows the use of door closers to DIN 18263 parts 1 – 3.
- The combination of various door hold-open magnets and armature plates among each other allows for a large number of installation variants.
- The wall or floor mounted hold-open magnet receives the corresponding armature plate mounted on the door leaf.

Functional principle

Hold-open magnets operate by the closed-circuit current principle. With closed circuit, the door is held in open position by the hold-open magnet and the armature plate.

With current interruption, e.g. through the smoke detector or manual release button, the hold-open magnet becomes current-less whereupon the door closer required to DIN 18263 parts 1, 2 or 3 provides the closing of the door.

Technical description

- | | |
|--------------------------------|---------------|
| ■ Supply voltage | 24 V DC ±15% |
| ■ Power input | 0,09 A |
| ■ Current consumption | 2,1 Watt |
| ■ Duty ratio | 100% |
| ■ Voltage standing wave ratio | < 30% |
| ■ Operating temperature | |
| with +20°C ambient temperature | +45°C |
| ■ Allowed ambient temperature | 0 up to +50°C |
| ■ Holding force | 800 N |
| ■ Remanent holding force | 0 N |
| ■ Protection class | IP 40 |

Hold-open system consisting of:

- Hold-open device
 - Hold-open magnet and armature plate
- Door closing device
 - Door closers to DIN 18263 parts 1 - 3
 - OTS 81
 - OTS 530
 - OTS 730
 - UTS 85 F
- Power supply, release and manual release button integrated in fire detector.
- Fire detector
 - Optical smoke detector, lintel mounting type
- Seperate manual release
 - Interruptor, surface or flush mounted



Advantages

- The OTS 730 FER is tested to the prevailing regulations for hold-open systems and licensed by the German Institute of Building Technology (DIBt). License number: Z-6.5-1371.
- The OTS 730 FER is a hold-open system with the hold-open device integrated in the slide rail; it has a monitoring device with integrated power supply; release and fire detector are also integrated.
- The OTS 730 FER is adjustable from the side for sizes 3 – 6 to EN 1155 and may be used with:
 - Fire rated doors to DIN 18082
 - Smoke control doors to DIN 18095
 - Fire rated doors approved by a construction control board, provided the licence notice allows the use of door closers to EN 1155.
- Standard mounting of the OTS 730 FER is on the hinge side of DIN lh or DIN rh doors.
- The OTS 730 FER can be connected to a 230 V AC or to a 24 V DC mains.
- The integrated fire detector responds to the indicator "smoke" and operates by the stray light principle (optical detector).
- Coded terminal clamps for the connection of
 - two hold-open devices
 - two ceiling mounted detectors
 - manual release button (opener)
 - floating contact (change-over contact)
- The electromagnetic hold-open device guarantees the selected hold-open position of the door during any period of time without fall-back angle.
- Small installation height of slide rail (22 mm). The monitoring device being flush with the top edge of the slide rail, installation is also possible with slim frame profiles.

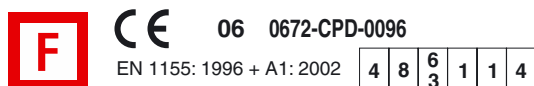
Technical description

- Max. door leaf width 1400 mm, left or right hand use.
- Hold-open range 75° – 150°.
- Electrical specification of monitoring device:

Supply voltage	230 V AC
or	24 V DC +20%
Nominal voltage hold-open device	24 V DC ±15%
External detectors max. 2 units	24 V DC +15% / -10%
Max. current flow	I = 0,17 A
Max. breaking capacity of floating change-over contact	30 V / 1 A / 30 W
Allowed ambient temperature range	-10°C up to +50°C
- Electrical specification of hold-open device:

Supply voltage	24 V DC ±15%
Power input	0,067 A
Current consumption	1,6 Watt
Duty ratio	100%
Voltage standing-wave ratio	< 30%
- LED signalling

– Stand-by	LED green
– Alarm	LED red
- Automatic reset, if no ceiling mounted smoke detectors are connected. As soon as the smoke concentration decreases again, the LED lights green.
- Manual release button with 3 functions:
 - Release of hold-open device through power cut
 - Reset of ceiling mounted smoke detectors (external detectors)
 - Restore of output voltage after overload
- Flush or on-wall installation of connecting cables.
- If the OTS 730 FER is used as hold-open device in a hold-open system for fire rated and smoke control doors, the particular national or regional regulations for hold-open systems must be observed.



Ordering references

OTS 730 FER, size 3 – 6	Colour	Article number
electromechanic	silver colour	K-14092-00-L/R-1
hold-open system	dark bronze	K-14092-00-L/R-5
L = DIN lh	white	K-14092-00-L/R-7
R = DIN rh	brass colour	K-14092-00-L/R-3
	inox colour	K-14092-00-L/R-8

for hold-open systems, tested and licensed by construction control boards



Advantages

- The BMZ 730 is a hold-open system component tested and licensed to the regulations for hold-open systems by the German Institute of Building Technology (DIBt). License number: Z-6.5-1371
- The BMZ 730 is a monitoring device for door closers with hold-open device; power supply, release and fire detector are integrated.
- The BMZ 730 can be connected
 - directly to the 230 V AC mains or
 - to a 24 DC mains.
- The integrated fire detector responds to the indicator "smoke" and operates by the stray light principle (optical detector).
- The BMZ 730 is a lintel mounted type of detector used either on the hinge side of the door or opposite to the hinges. The connection of two additional ceiling mounted detectors is possible.
- Coded terminal clamps for the connection of
 - two hold-open devices
 - two ceiling mounted detectors
 - manual release button (opener)
 - floating contact (change-over contact)
- With double leaf doors, central mounting is possible since the door control board and the cover are reversible (the aperture for smoke entry always must be situated over the passage leaf!)

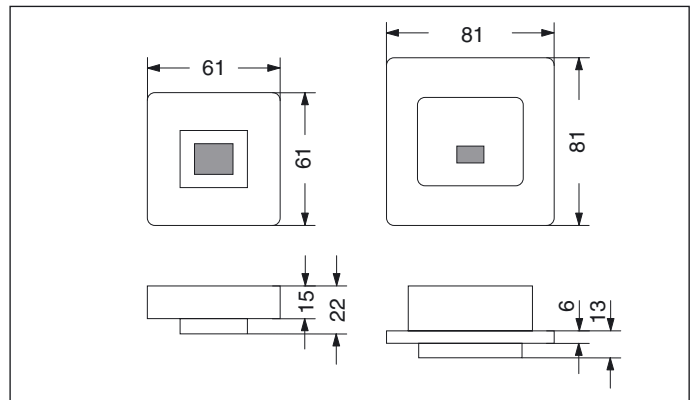
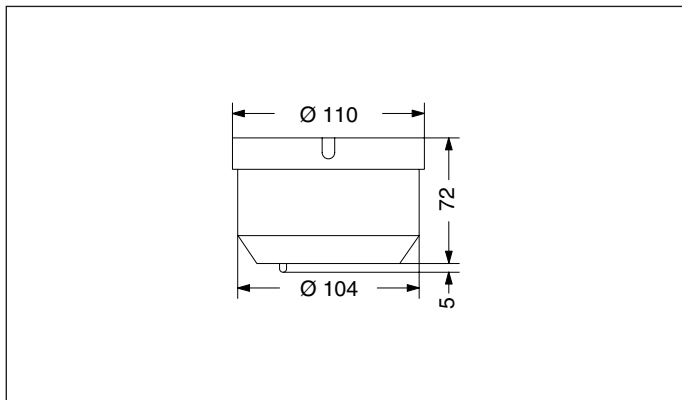
Technical description

- Supply voltage optionally or 230 V AC
24 V DC +20%
- Nominal voltage
 - Hold open device 24 V DC \pm 15%
 - External detectors max. 2 pcs. 24 V DC +15% / -10%
 - Max. current flow I = 170 mA
- Max. breaking capacity of floating change-over contact 30 V / 1 A / 30 W
- LED signalling
 - Stand-by LED green
 - Alarm LED red
- Automatic reset of BMZ 730, if no ceiling mounted smoke detectors are connected. As soon as the smoke concentration decreases again, the LED lights green.
- Manual release button with 3 functions:
 - Release of hold-open device through power cut
 - Reset of ceiling mounted smoke detectors (external detectors)
 - Restore of output voltage after overload
- External interruptors for manual release can be connected if required.
- Flush or on-wall installation of connecting cables.
- If the BMZ 730 is used as monitoring device in a hold-open system for fire rated and smoke control doors, the particular national or regional regulations for hold-open systems must be observed.

Ordering references

BMZ 730	Colour	Article number
Fire alarm centre line for door control	silver colour	K-14084-00-0-1
	dark bronze	K-14084-00-0-5
	white (RAL 9016)	K-14084-00-0-7
	black	K-14084-00-0-6
	brass colour	K-14084-00-0-3
	inox colour	K-14084-00-0-8

Stray light smoke detector BM A 880, interruptor



**Stray light smoke detector
BM A 880**

**Interruptor
surface mounted**

**Interruptor
flush mounted**

Stray light smoke detector BM A 880

BM A 880 is a stray light smoke detector (optical detector) which may be connected to the BMZ 730 by terminal clamp, in case additional ceiling mounted detectors are required.

Technical data

- Supply voltage 24 V DC +15% / -10%
- Operating temperature -20°C up to +60°C
- Storage temperature -25°C up to +80°C
- Max. relative humidity 75%
- Max. relative humidity temporary 80%
- Max. wind speed 20 m/s
- Smoke detector BM A 880 to be protected against moisture!

Interruptor

It must be possible to release each hold-open device by hand without the release function being affected.

The interruptor for manual release must be situated in the immediate vicinity of the door without being concealed by the door leaf as it is held open.

For hold-open systems with hold-open magnets and hold-open systems with swing-free mechanism it is imperative to use an interruptor.

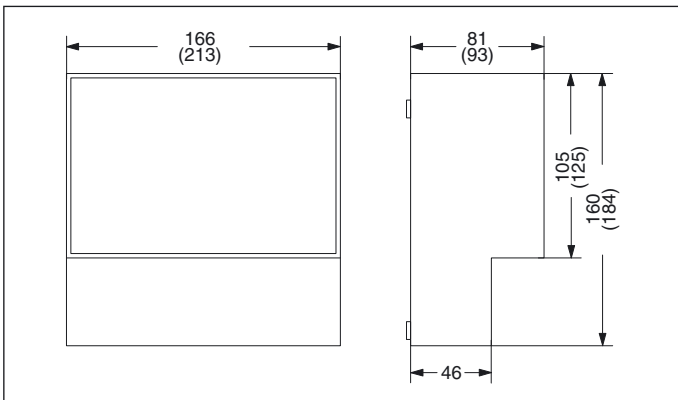
Note:

Interruptors B 8400 0500 and B 8400 0510 may also be applied together with the smoke protect switches B 8400 0100 and B 8400 0110.

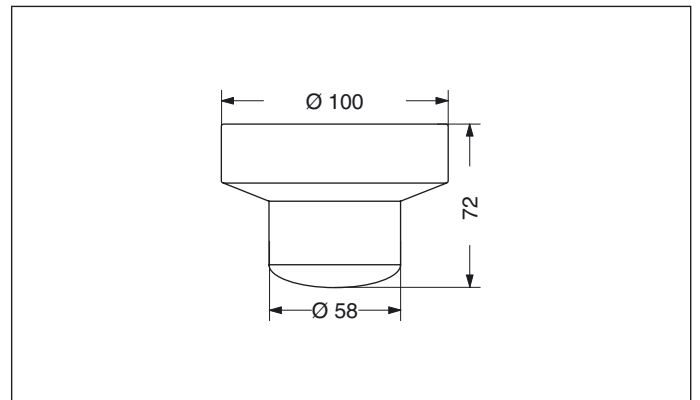
Ordering references

Description	Colour	Article number
Fire alarm centre line BMZ 730	silver colour	K-14084-00-0-1
	dark bronze	K-14084-00-0-5
	white	K-14084-00-0-7
	black	K-14084-00-0-6
	brass colour	K-14084-00-0-3
Stray light smoke detector BM A 880	white	K-14129-00-0-0
Locking socket BM A 880	white	K-14130-00-0-0
Interruptor surface mounted	white	B 8400 0500
Interruptor flush mounted	white	B 8400 0510

Smoke protect switch, fire detector



Smoke protect switch



Optical fire detector

Smoke protect switch

The smoke protect switch is a hold-open system component. It includes:

- Power supply for the electrical supply of smoke detectors, hold-open devices or swing-free mechanisms.
- Releasing device accepting the signals of the smoke detector and releasing the hold-open device or the swing-free mechanism in case the marginal value of the physical indicator "smoke" is exceeded. Fire rated or smoke control doors will close thus preventing the fire from spreading to the next fire area.

Technical data	Smoke protect switch	
	0,25 A	0,8 A
Input voltage	230 V AC +15% / -10%	230 V AC +15% / -10%
Output voltage for hold open device or swing-free mechanism	24 V DC ±15%	24 V DC ±15%
Output current for hold open device or swing-free mechanism	0,25 A	0,8 A
Output voltage for fire detectors	20 V DC	20 V DC
Number of connectable optical smoke detectors per smoke protect switch:	5	5
Ambient temperature	0° up to +40°C	0° up to +40°C
Article number	B 8400 0100	B 8400 0110

Fire detectors

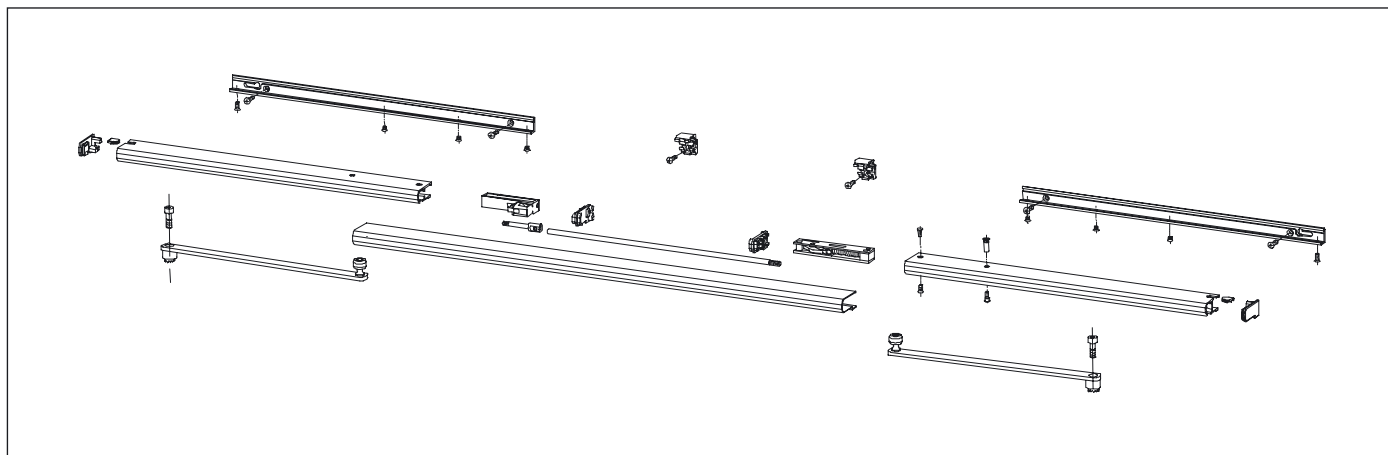
In order to recognise a fire, fire detectors measure a suitable physical indicator (e.g. "smoke") in the monitoring area and give signals to the releasing device. With common hold-open systems, the use of fire detectors (here: smoke detectors) is recommendable, whereas with hold-open systems on escape route doors, smoke detectors are obligatory.

Optical smoke detector

Optical (stray light) smoke detector with socket and LED indication for the connection to a smoke protect switch. Optical smoke detectors should be installed in surroundings where a potential fire is likely to start with smouldering.

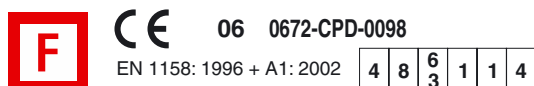
Technical data	
Input voltage	20 V DC ±1%
Current consumption at rest	70 µA
Operating temperature	0°C up to +50°C
Storage temperature	-25°C up to +70°C
Colour	white
Article number	B 8400 0200

integrated in slide rail to EN 1158



Advantages

- The integrated mechanic door leaf coordinators of the OTS-730 series provide for the correct closing sequence of passage and inactive door leaf on double leaf doors with equal or unequal door leaf widths; the passage leaf is retained until the inactive leaf has passed the passage leaf in its waiting position.
- The correct closing sequence of the door leaves is achieved through a concealed connecting rod.
- No vandalising possible due to concealed integration in the slide rail.
- Lh/rh reversible by simply exchanging the mechanics of passage and inactive leaf.
- Small installation height of slide rail inspite of integrated door leaf coordinator (22 mm also with OTS 730 FE-SRI and OTS 730 FER-SRI), therefore suitable for slim frames and small units (e.g. fanlights).
- The OTS 730 door leaf coordinator is also available for assembly opposite to the hinge side (BG).



Technical description

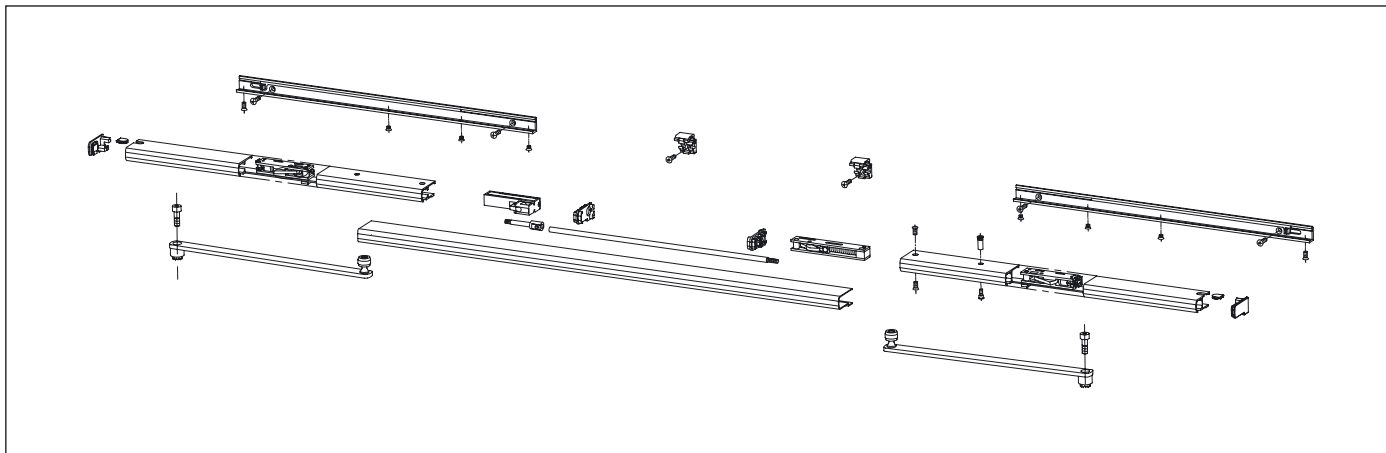
- Total door leaf width GFB standard 1240 – 2800 mm
or narrow 1030 – 1240 mm
Application also possible with unequal door leaf widths.
- Smallest possible width of single leaf EFB
standard 420 mm
narrow 385 mm
- The total width of both door leaves GFB is measured from hinge centre to hinge centre.

Ordering references

Door leaf coordinator	Colour	Article no.
OTS 730 SRI with slide rail Total door leaf width 1240-2800 mm	silver colour	K-14602-00-0-1
	dark bronze	K-14602-00-0-5
	white	K-14602-00-0-7
	black	K-14602-00-0-6
	brass colour	K-14602-00-0-3
	inox colour	K-14602-00-0-8
OTS 730 SRI with slide rail Total door leaf width 1030-1240 mm	silver colour	K-14607-00-0-1
	dark bronze	K-14607-00-0-5
	white	K-14607-00-0-7
	black	K-14607-00-0-6
	brass colour	K-14607-00-0-3
	inox colour	K-14607-00-0-8
OTS 730 SRI BG [1] with slide rail Total door leaf width 1570-2800 mm	silver colour	K-14610-00-0-1
	dark bronze	K-14610-00-0-5
	white	K-14610-00-0-7
	black	K-14610-00-0-6
	brass colour	K-14610-00-0-3
	inox colour	K-14610-00-0-8

[1] BG = Assembly of door leaf coordinator opposite to hinge side

Electromechanic hold-open and door leaf coordinator integrated in slide rail to EN 1158



Advantages

same as with OTS 730 SRI; additional features:

- The OTS 730 FE-SRI is tested to the prevailing regulations for hold-open systems and licensed by the German Institute of Building Technology (DIBt).
- The electromagnetic hold-open device ensures the selected hold-open position of the door during any period of time without fall-back angle.
- Large hold-open range from 75° to 150° opening angle.
- Depending on the particular constructional circumstances, a door opening angle up to 180° is possible. The FE-SRI system does not affect the door opening angle.
- The OTS 730 FE-SRI is licensed by construction control boards for the use with various types of monitoring systems (e.g. smoke detecting systems). An overview of the current approvals is available on request.

Technical description

- Total door leaf width GFB standard 1240 – 2800 mm or narrow 1030 – 1240 mm
Application also possible with unequal door leaf widths.
- Smallest possible width of single leaf EFB standard 420 mm narrow 385 mm
- The total width of both door leaves GFB is measured from hinge centre to hinge centre.
- Hold open device both in passage and inactive door leaf or just in the passage leaf.
Hold open angle adjustable approx. from 75° to 150°.
- Technical data
 - Operating voltage 24 V DC ±15%
 - Current consumption 0,067 A
 - Current consumption 1,6 Watt
 - Duty ratio 100%
 - Voltage standing wave ratio < 30%
- Flush or on-wall installation of connecting cables.

Ordering references

Door leaf coordinator	Colour	Article number
OTS 730 FE-SRI electromechanic hold-open device on one side Total door leaf width 1240-2800 mm	silver colour	K-14603-00-0-1
	dark bronze	K-14603-00-0-5
	white	K-14603-00-0-7
	black	K-14603-00-0-6
	brass colour	K-14603-00-0-3
OTS 730 FE-SRI electromechanic hold-open device on both sides Total door leaf width 1240-2800 mm	silver colour	K-14604-00-0-1
	dark bronze	K-14604-00-0-5
	white	K-14604-00-0-7
	black	K-14604-00-0-6
	brass colour	K-14604-00-0-3
OTS 730 FE-SRI electromechanic hold-open device on one side Total door leaf width 1030-1240 mm	silver colour	K-14608-00-0-1
	dark bronze	K-14608-00-0-5
	white	K-14608-00-0-7
	black	K-14608-00-0-6
	brass colour	K-14608-00-0-3
OTS 730 FE-SRI electromechanic hold-open device on both sides Total door leaf width 1030-1240 mm	silver colour	K-14609-00-0-1
	dark bronze	K-14609-00-0-5
	white	K-14609-00-0-7
	black	K-14609-00-0-6
	brass colour	K-14609-00-0-3
OTS 730 FE-SRI BG [1] electromechanic hold-open device on one side Total door leaf width 1570-2800 mm	silver colour	K-14611-00-0-1
	dark bronze	K-14611-00-0-5
	white	K-14611-00-0-7
	black	K-14611-00-0-6
	brass colour	K-14611-00-0-3
OTS 730 FE-SRI BG [1] electromechanic hold-open device on both sides Total door leaf width 1570-2800 mm	silver colour	K-14612-00-0-1
	dark bronze	K-14612-00-0-5
	white	K-14612-00-0-7
	black	K-14612-00-0-6
	brass colour	K-14612-00-0-3

[1] BG = Assembly of door leaf coordinator opposite to hinge side

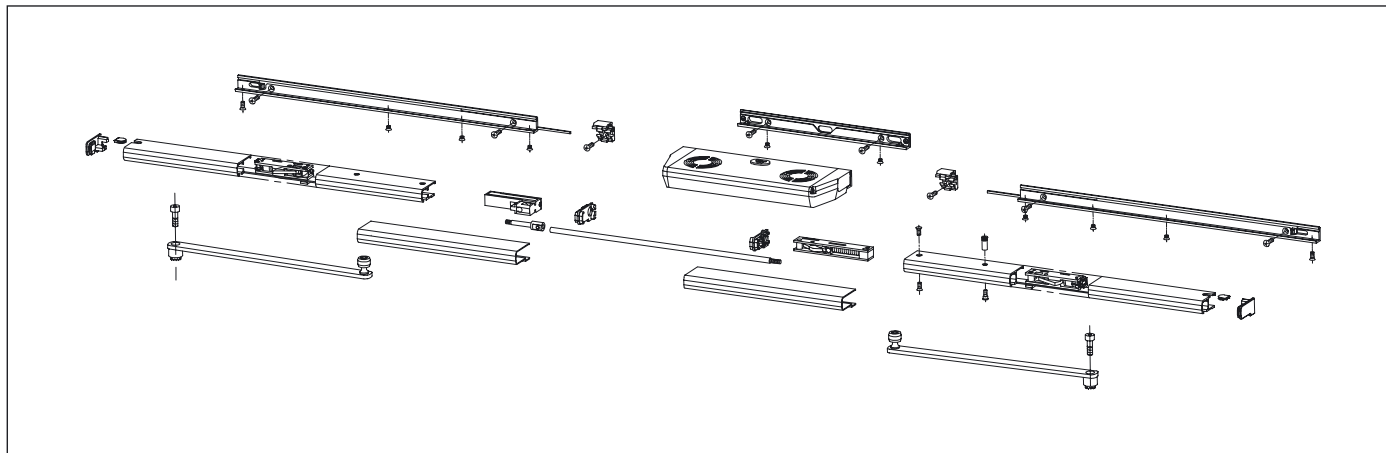


06 0672-CPD-0100

EN 1158: 1996 + A1: 2002

4	8	6	3	1	1	4
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Electromechanic hold-open, fire detector and door leaf coordinator integrated in slide rail to EN 1158



Advantages

same as with OTS 730 SRI and OTS 730 FE-SRI; additional features:

- The OTS 730 FER-SRI is tested to the prevailing regulations for hold-open systems and licensed by the German Institute of Building Technology (DIBt). License number: Z-6.5-1371.
- The OTS 730 FER-SRI is a hold-open system with the hold-open device integrated in the slide rail; it has a monitoring device with integrated power supply; release, fire detector and door leaf coordinator are also integrated.
- The OTS 730 FER-SRI can be connected to a 230 V AC or to a 24 V DC mains.
- The integrated fire detector responds to the indicator "smoke" and operates by the stray light principle (optical detector).
- Coded terminal clamps for the connection of
 - two hold-open devices
 - two ceiling mounted detectors
 - manual release button (opener)
 - floating contact (change-over contact)
- Small installation height of slide rail (22 mm). The monitoring device being flush with the top edge of the slide rail, installation is also possible with slim frame profiles.

Technical description

- Total door leaf width GFB 1640 – 2800 mm
Application also possible with unequal door leaf widths.
- Smallest possible width of single leaf EFB 420 mm
- The total width of both door leaves GFB is measured from hinge centre to hinge centre.
- Hold-open device both in passage and inactive door leaf or just in the passage leaf.
Hold-open angle adjustable approx. from 75° to 150°.
- Electrical specification of monitoring device:

Supply voltage	230 V AC
or	24 V DC +20%
Nominal voltage hold-open device	24 V DC ±15%
External detectors max. 2 units	24 V DC +15% / –10%
Max. current flow	I = 0,17 A
Maximum breaking capacity of floating change-over contact	30 V / 1 A / 30 W
Allowed ambient temperature	–10°C up to +50°C

- Electrical specification of hold-open device:

Operating voltage	24 V DC ±15%
Power input	0,067 A
Current consumption	1,6 Watt
Duty ratio	100%
Voltage standing-wave ratio	< 30%
- LED signalling – Stand-by LED green
– Alarm LED red
- Automatic reset, if no ceiling mounted fire detectors are connected. As soon as the smoke concentration decreases again, the LED lights green.
- Manual release button with 3 functions:
 - Release of hold-open device through power cut
 - Reset of ceiling mounted fire detectors (external detectors)
 - Restore of output voltage after overload
- Flush or on-wall installation of connecting cables.
- If the OTS 730 FER is used as hold-open device in a hold-open system for fire rated and smoke control doors, the particular national or regional regulations for hold-open systems must be observed.

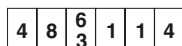
Ordering references

Door leaf coordinator	Colour	Article number
OTS 730 FER-SRI electromechanic hold-open device on one side	silver colour	K-14605-00-0-1
	dark bronze	K-14605-00-0-5
	white	K-14605-00-0-7
	black	K-14605-00-0-6
	brass colour	K-14605-00-0-3
	inox colour	K-14605-00-0-8
OTS 730 FER-SRI electromechanic hold-open device on both sides	silver colour	K-14606-00-0-1
	dark bronze	K-14606-00-0-5
	white	K-14606-00-0-7
	black	K-14606-00-0-6
	brass colour	K-14606-00-0-3
	inox colour	K-14606-00-0-8
OTS 730 FER-SRI BG [1] electromechanic hold-open device on one side	silver colour	K-14613-00-0-1
	dark bronze	K-14613-00-0-5
	white	K-14613-00-0-7
	black	K-14613-00-0-6
	brass colour	K-14613-00-0-3
	inox colour	K-14613-00-0-8
OTS 730 FER-SRI BG [1] electromechanic hold-open device on both sides	silver colour	K-14614-00-0-1
	dark bronze	K-14614-00-0-5
	white	K-14614-00-0-7
	black	K-14614-00-0-6
	brass colour	K-14614-00-0-3
	inox colour	K-14614-00-0-8



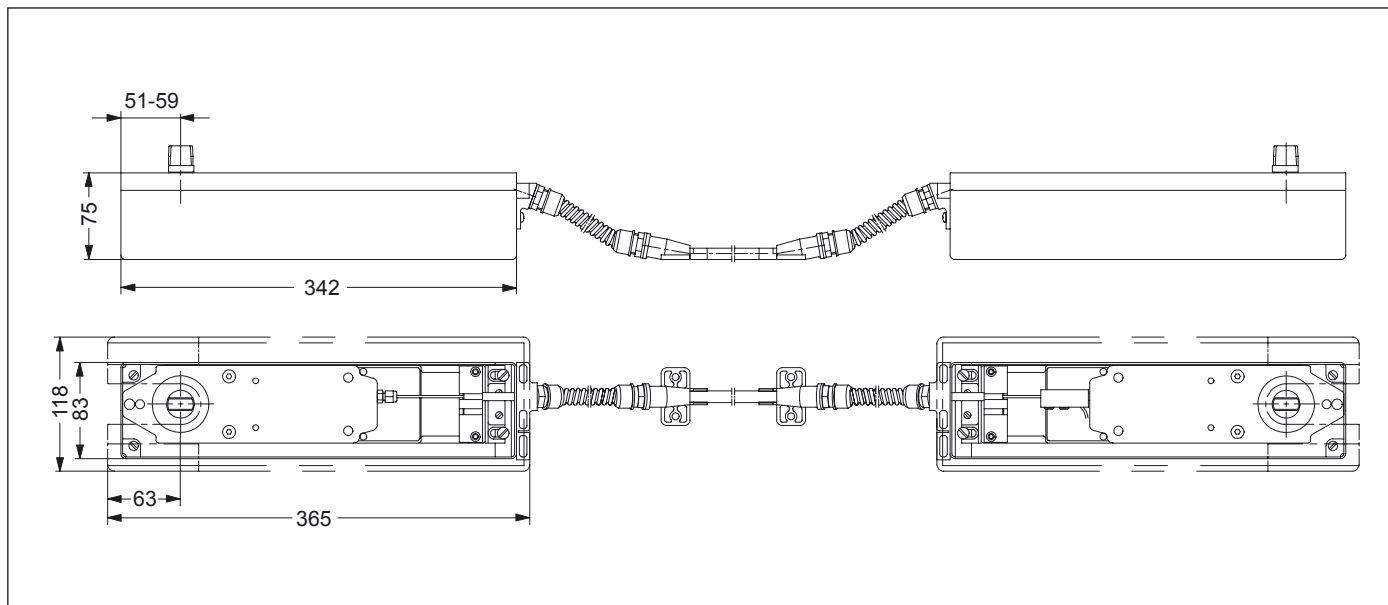
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EN 1158: 1996 + A1: 2002



[1] BG = Assembly of door leaf coordinator opposite to hinge side

to EN 1158 – for the use with UTS 85 F, UTS 85 FE or UTS 85 FL



Advantages

- The integrated mechanic door leaf coordinator of the UTS series provides for the correct closing sequence of passage and inactive door leaf on double leaf doors with equal or unequal door leaf widths; the passage leaf is retained until the inactive leaf has passed the passage leaf in its waiting position.
- No vandalising possible due to the concealed installation in the floor.
- The correct closing order is achieved via bowden cable in a steel tube.
- Lh/rh reversible by simply exchanging the mechanics of passage and inactive leaf.
- The UTS door leaf coordinator can be used with the floor springs UTS 85 F, UTS 85 FE and UTS 85 FL.

Technical description

- Total door leaf width GFB 1030 – 2800 mm
- Door leaf weight up to 300 kg
- Smallest possible width of single leaf EFB 420 mm
- Application also possible with unequal door leaf widths.
- The total door leaf width GFB is measured from hinge centre to hinge centre.



06 0672-CPD-0103

EN 1158: 1996 + A1: 2002

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Functioning

- Double leaf doors must operate in a way that the leaves close automatically and in correct sequence, even if manual closing is effected in a different order.
- The integrated door leaf coordinator UTS SRI provides for the correct closing sequence of passage and inactive door leaf on double leaf doors with equal or unequal door leaf widths.
- Double leaf doors equipped with a full panic door lock must have a door leaf carrier bar on the inactive leaf to ensure that the passage leaf opens along with the inactive leaf as soon as the latter is pushed open.

Ordering references

Description	Article number
UTS 85 F SRI Floor spring to DIN 18263 part 3 with backcheck, door leaf coordinator integrated	K-13526-00-0-0
UTS 85 FE SRI Floor spring with backcheck, electrohydraulic hold-open device, door leaf coordinator integrated	K-13528-00-0-0
UTS 85 FL SRI Floor spring with backcheck, electrohydraulic swing-free mechanism, door leaf coordinator integrated	K-13530-00-0-0
Conversion kit UTS SRI for the subsequent retrofitting of floor springs without door leaf coordinator, suitable for any type of floor spring not installed	K-13525-00-0-0

Door leaf coordinator 8641, door leaf carrier bar 8642



Door leaf coordinator 8641

Door leaf coordinators are devices applied on double leaf side hung doors to ensure the correct closing sequence of passage (active) and inactive door leaf.

Double leaf doors must operate in a way that the leaves close automatically and in correct sequence, even if manual closing is effected in a different order.

Advantages

- The suitability of door leaf coordinator 8641 for continuous duty was tested and approved by the State Materials Testing Authority of North Rhine-Westphalia MPA NRW.
- The door leaf coordinator 8641 may be used on double leaf fire protection doors, if it is explicitly stated in the license notice of the door, and with double leaf smoke protection doors, if it is explicitly stated in the test certificate of the door.
- Appealing design due to short coordinator arm and stylish cover cap.
- Easy assembly – only two components must be fixed.
- Coordinator arm always mounted centrally over the middle joint, no matter if the door leaf widths are equal or not.

Functioning

The arm of the door leaf coordinator automatically moves forward as the inactive door leaf opens. When the door leaves close, the passage leaf is held open until the inactive leaf presses the arm in its initial position via the cover cap. At the same time, the passage leaf closes.

Technical description

- Left hand and right hand usable.
- Passage leaf widths from 700 mm to 1300 mm in combination with any inactive leaf widths.
- PUR roller buffer provides low-noise and material saving operation.

Ordering references

Description	Article number
Door leaf coordinator 8641	silver colour dark bronze
2-leaf steel and timber doors, fire protection doors	B 8641 0000 B 8641 0005
T 30-2 doors, Narrow stile doors	B 8641 0100 B 8641 0105

Door leaf carrier bar 8642

A door leaf carrier bar on the inactive leaf of double leaf side hung doors increases the rebate of the inactive leaf on the central joint thus achieving that in the case of panic – as the door is pushed opened (incorrectly) on the inactive leaf – the passage leaf is taken along at least up to the beginning of the operating range of the door leaf coordinator. When closing, the correct closing order of the door leaves is ensured. On side hung doors with panic door locks, the inactive leaf must be equipped with a door leaf carrier bar. This does not apply to double leaf side hung doors where the inactive leaf can only be opened after the passage leaf has been opened and the inactive leaf unlocked, i.e. where a simultaneous opening of both leaves is basically not possible.

Advantages

- The suitability of door leaf carrier bar 8642 for continuous duty was tested and approved by the State Materials Testing Authority of North Rhine-Westphalia MPA NRW.
- The door leaf carrier bar 8642 may be used on fire rated double leaf doors, if it is explicitly stated in the license notice of the door, and with double leaf smoke control doors, if it is explicitly stated in the test certificate of the door.
- Universal application on double leaf doors, independent from the door leaf coordinator installed.

Technical description

- Left hand and right hand usable.
- Door leaf width 500 mm – 800 mm or
- Door leaf width 801 mm – 1300 mm
- Rebate height 0 – 11 mm = type A
- Rebate height 10 – 17 mm = type B

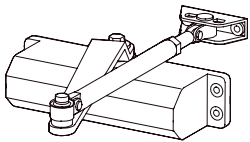
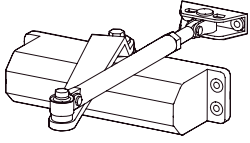
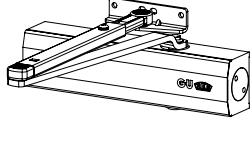
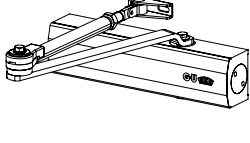

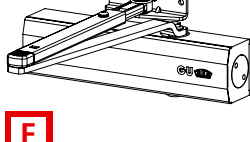
Ordering references

Description	Article number
Door leaf carrier bar 8642	silver colour dark bronze
Door leaf width 500 – 800 Rebate height 0 – 11 Type "A"	B 8642 0200 B 8642 0205
Door leaf width 500 – 800 Rebate height 10 – 17 Type "B"	B 8642 0300 B 8642 0305
Door leaf width 801– 1300 Rebate height 0 – 11 Type "A"	B 8642 0000 B 8642 0005
Door leaf width 801 – 1300 Rebate height 10 – 17 Type "B"	B 8642 0100 B 8642 0105

Overhead door closer OTS 140, OTS 210, OTS 320



Overhead rack and pinion door closer with scissor action arm OTS 140, OTS 210, OTS 320

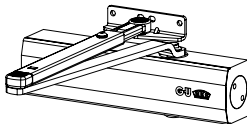

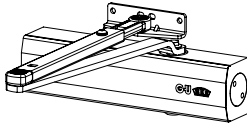
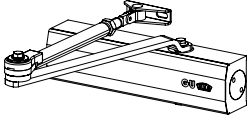

Figure	Version	Finish	Order number
	OTS 140 – EN 1154 CE Standard arm	silver colour dark bronze colour white	K-17041-00-0-1 K-17041-00-0-5 K-17041-00-0-7
	OTS 140 – EN 1154 CE Hold open arm	silver colour dark bronze colour white	K-17042-00-0-1 K-17042-00-0-5 K-17042-00-0-7
	OTS 210 – EN 1154 CE Standard arm	silver colour dark bronze colour white	K-15710-00-0-1 K-15710-00-0-5 K-15710-00-0-7
	OTS 210 – EN 1154 CE Hold open arm	silver colour dark bronze colour white	K-15711-00-0-1 K-15711-00-0-5 K-15711-00-0-7
	OTS 210 – EN 1154 CE without arm	silver colour dark bronze colour white	K-15710-01-0-1 K-15710-01-0-5 K-15710-01-0-7
	OTS 320 – EN 1154 CE Standard arm	silver colour dark bronze colour white	K-15712-00-0-1 K-15712-00-0-5 K-15712-00-0-7

F

Overhead door closer OTS 430, OTS 440



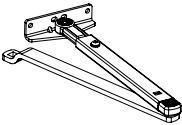
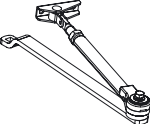
Overhead rack and pinion door closer with scissor action arm OTS 430, OTS 440

Figure	Version	Finish	Order number
 	OTS 430 – EN 1154 CE Standard arm	silver colour	K-17051-00-0-1
		dark bronze colour	K-17051-00-0-5
		white	K-17051-00-0-7
	OTS 440 – EN 1154 CE Standard arm	silver colour	K-16545-00-0-1
		dark bronze colour	K-16545-00-0-5
		white	K-16545-00-0-7
	OTS 440 – EN 1154 CE Hold open arm	silver colour	K-16546-00-0-1
		dark bronze colour	K-16546-00-0-5
		white	K-16546-00-0-7
	OTS 440 – EN 1154 CE without arm	silver colour	K-16545-01-0-1
		dark bronze colour	K-16545-01-0-5
		white	K-16545-01-0-7



Arms and slide rails for OTS 210, OTS 320, OTS 440



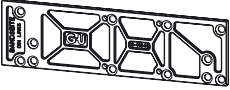
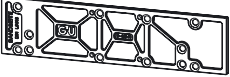
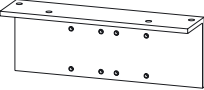
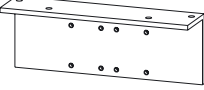
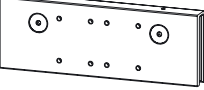
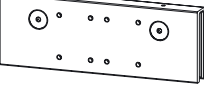
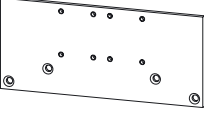
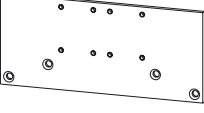

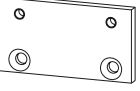
Arms for overhead door closer OTS 210, OTS 320, OTS 440

Figure	Version	Finish	Order number
	Standard arm OTS 210, OTS 320, OTS 440	silver colour	K-16571-00-0-1
		dark bronze colour	K-16571-00-0-5
		white	K-16571-00-0-7
	Hold open arm OTS 210, OTS 440	silver colour	K-16572-00-0-1
		dark bronze colour	K-16572-00-0-5
		white	K-16572-00-0-7

Slide rails for overhead door closer OTS 210, OTS 440

Figure	Version	Finish	Order number
	Slide rail with slide arm OTS 210, OTS 440	silver colour	K-16652-00-0-1
		dark bronze colour	K-16652-00-0-5
		white	K-16652-00-0-7
	Slide rail with slide arm MF-EA OTS 210, OTS 440	silver colour	K-16653-00-0-1
		dark bronze colour	K-16653-00-0-5
		white	K-16653-00-0-7

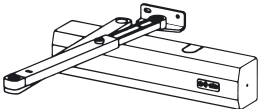
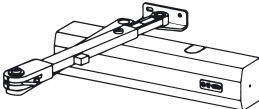
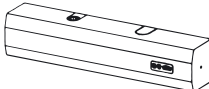


Accessories for overhead door closer OTS 210, OTS 320, OTS 430, OTS 440

Figure	Version	Finish	Order number
	Mounting plate OTS 210, OTS 320	silver colour dark bronze colour white	K-15714-00-0-1 K-15714-00-0-5 K-15714-00-0-7
	Mounting plate OTS 430, OTS 440	silver colour dark bronze colour white	K-16547-00-0-1 K-16547-00-0-5 K-16547-00-0-7
	Angular soffit bracket OTS 210, OTS 320	silver colour dark bronze colour white	K-16550-00-0-1 K-16550-00-0-5 K-16550-00-0-7
	Angular soffit bracket OTS 430, OTS 440	silver colour dark bronze colour white	K-16551-00-0-1 K-16551-00-0-5 K-16551-00-0-7
	Clamping bracket All glass doors OTS 210, OTS 320	silver colour dark bronze colour white	K-16552-00-0-1 K-16552-00-0-5 K-16552-00-0-7
	Clamping bracket All glass doors OTS 430, OTS 440	silver colour dark bronze colour white	K-16553-00-0-1 K-16553-00-0-5 K-16553-00-0-7
	Flat bracket Segmental arch head doors OTS 210, OTS 320	silver colour dark bronze colour white	K-16548-00-0-1 K-16548-00-0-5 K-16548-00-0-7
	Flat bracket Segmental arch head doors OTS 430, OTS 440	silver colour dark bronze colour white	K-16549-00-0-1 K-16549-00-0-5 K-16549-00-0-7
	Angular bracket 8174 Parallel arm assembly OTS 210, OTS 320, OTS 430, OTS 440	silver colour dark bronze colour white	B 8174 0000 B 8174 0005 B 8174 0006
	Base plate OTS 210, OTS 320, OTS 430, OTS 440	silver colour dark bronze colour white	K-14215-00-0-1 K-14215-00-0-5 K-14215-00-0-7

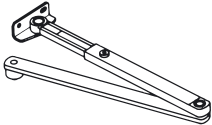
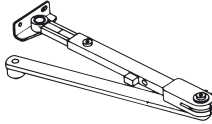
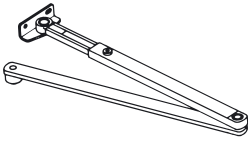
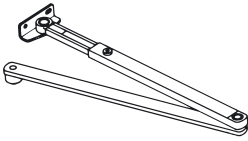
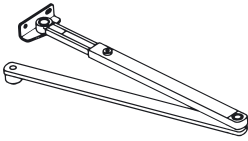
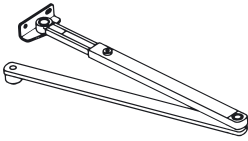
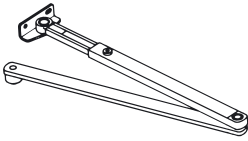
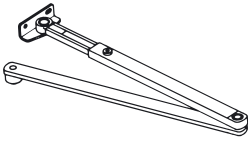
Overhead door closer OTS 530



Overhead rack and pinion door closer with scissor action arm OTS 530

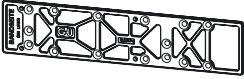
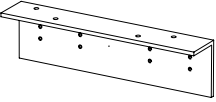
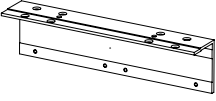
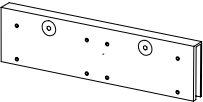
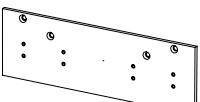
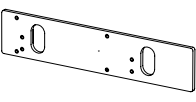
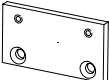
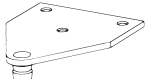
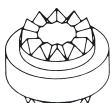

Figure	Version	Finish	Order number
	OTS 530 – EN 1154 CE Standard arm	silver colour	K-13346-00-0-1
		dark bronze colour	K-13346-00-0-5
	OTS 530 MF-EA – EN 1154 CE Hold open arm switchable on/off	white	K-13346-00-0-7
		brass colour	K-13346-00-0-3
	OTS 530 – EN 1154 CE without arm	inox colour	K-13346-00-0-8
		silver colour	K-13687-00-0-1
	Drilling template	dark bronze colour	K-13687-00-0-5
		white	K-13687-00-0-7
	Drilling template	brass colour	K-13687-00-0-3
		inox colour	K-13687-00-0-8

Arms for overhead door closers OTS 530

Figure	Version	Finish	Order number
	Standard arm	silver colour	K-13488-00-0-1
		dark bronze colour	K-13488-00-0-5
	Hold open arm switchable on/off	white	K-13488-00-0-7
		inox colour	K-13488-00-0-8
	Extended arm	brass colour	K-13488-00-0-3
		silver colour	K-13489-00-0-1
	Extended arm	dark bronze colour	K-13489-00-0-5
		white	K-13489-00-0-7
	Extended arm	inox colour	K-13489-00-0-8
		brass colour	K-13489-00-0-3
	Extended arm	silver colour	K-13771-00-0-1
		dark bronze colour	K-13771-00-0-5
	Extended arm	white	K-13771-00-0-7
		inox colour	K-13771-00-0-8
	Extended arm	brass colour	K-13771-00-0-3

The use of slide rails is only possible under special conditions.

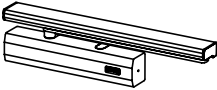
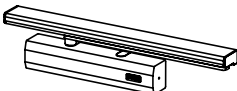
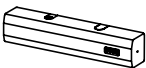
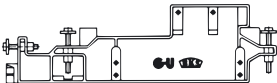

Accessories for overhead door closer OTS 530

Figure	Version	Finish	Order number
	Mounting plate	silver colour	K-16537-00-0-1
		dark bronze colour	K-16537-00-0-5
		white	K-16537-00-0-7
	Angular soffit bracket	inox colour	K-16537-00-0-8
		brass colour	K-16537-00-0-3
	Combined angular bracket	silver colour	K-13772-00-0-1
		dark bronze colour	K-13772-00-0-5
		white	K-13772-00-0-7
	Clamping bracket All glass doors	black	K-13772-00-0-6
		brass colour	K-13772-00-0-3
	Flat bracket Segmental arch head doors	silver colour	K-14551-00-0-1
		dark bronze colour	K-14551-00-0-5
		white	K-14551-00-0-7
	Weld on plate Steel doors	black	K-14551-00-0-6
		brass colour	K-14551-00-0-3
	Base plate	silver colour	K-13773-00-0-1
		dark bronze colour	K-13773-00-0-5
		white	K-13773-00-0-7
	Screw-on bracket Parallel arm assembly	black	K-13773-00-0-6
		brass colour	K-13773-00-0-3
	Axle extension 5 mm 10 mm 15 mm 20 mm	silver colour	K-13752-00-0-1
		dark bronze colour	K-13752-00-0-5
		white	K-13752-00-0-7
	Safety screw for caps 10 pieces per bag	black	K-13752-00-0-6
		brass colour	K-13752-00-0-3
			K-14454-00-0-9
		silver colour	K-14215-00-0-1
		dark bronze colour	K-14215-00-0-5
		white	K-14215-00-0-7
		black	K-14215-00-0-6
		brass colour	K-14215-00-0-3
		silver colour	K-14114-00-0-1
		dark bronze colour	K-14114-00-0-5
		white	K-14114-00-0-7
		black	K-14114-00-0-6
		brass colour	K-14114-00-0-3
		black	K-13490-05-0-6
		black	K-13490-10-0-6
		black	K-13490-15-0-6
		black	K-13490-20-0-6
			K-14451-00-0-1

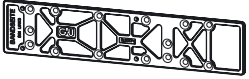
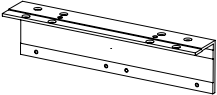
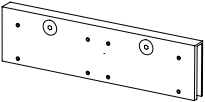
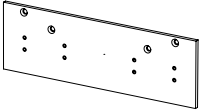

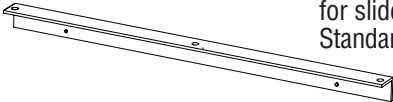
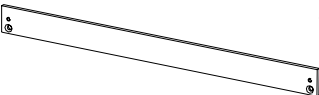
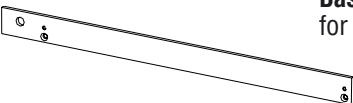
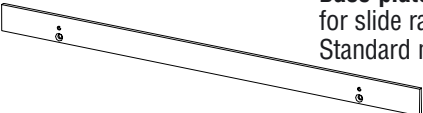
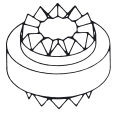


Overhead door closer OTS 630



Overhead linear drive door closer with slide rail OTS 630

Figure	Version	Finish	Order number
	OTS 630 – EN 1154 CE Slide rail	silver colour	K-14068-00-0-1
		dark bronze colour	K-14068-00-0-5
		white	K-14068-00-0-7
		brass colour	K-14068-00-0-3
		inox colour	K-14068-00-0-8
	OTS 630 MF-EA – EN 1154 CE Mechanical hold open device switchable on/off	silver colour	K-14070-00-0-1
		dark bronze colour	K-14070-00-0-5
		white	K-14070-00-0-7
		brass colour	K-14070-00-0-3
		inox colour	K-14070-00-0-8
	OTS 630 – EN 1154 CE without slide rail	silver colour	K-14071-00-0-1
		dark bronze colour	K-14071-00-0-5
		white	K-14071-00-0-7
		brass colour	K-14071-00-0-3
		inox colour	K-14071-00-0-8
	Drilling template		6-25957-00-0-0
	Additional drilling template		6-26072-00-0-0

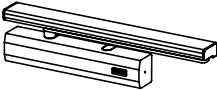
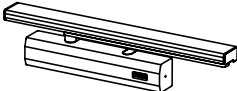
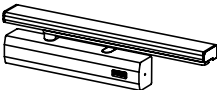
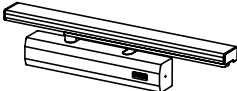
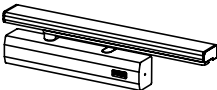
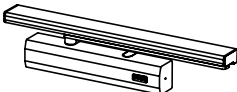
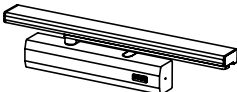
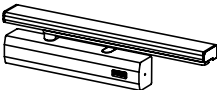
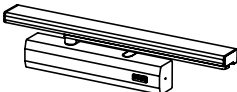
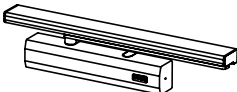
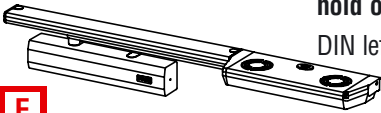
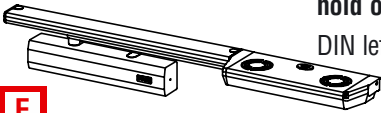
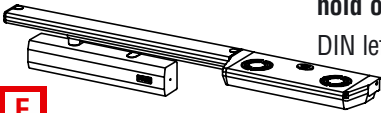
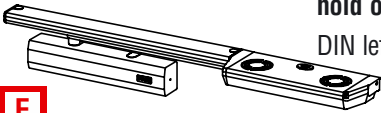
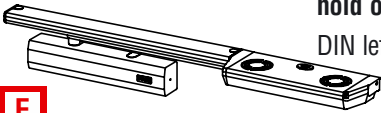
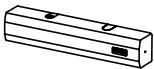
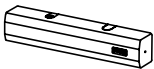
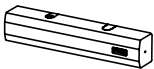
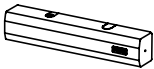
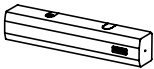
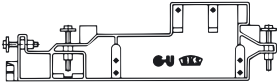

Accessories for overhead door closer OTS 630

Figure	Version	Finish	Order number
	Mounting plate	silver colour	K-16537-00-0-1
		dark bronze colour	K-16537-00-0-5
		white	K-16537-00-0-7
		inox colour	K-16537-00-0-8
		brass colour	K-16537-00-0-3
	Combined angular bracket	silver colour	K-14551-00-0-1
		dark bronze colour	K-14551-00-0-5
		white	K-14551-00-0-7
		black	K-14551-00-0-6
		brass colour	K-14551-00-0-3
	Clamping bracket All glass doors	silver colour	K-13773-00-0-1
		dark bronze colour	K-13773-00-0-5
		white	K-13773-00-0-7
		black	K-13773-00-0-6
		brass colour	K-13773-00-0-3
	Flat bracket Segmental arch head doors	silver colour	K-13752-00-0-1
		dark bronze colour	K-13752-00-0-5
		white	K-13752-00-0-7
		black	K-13752-00-0-6
		brass colour	K-13752-00-0-3
	Weld on plate Steel doors		K-14454-00-0-9
	Angular soffit bracket for slide rail Standard mounting opposite to hinge side	silver colour	K-14296-00-0-1
		dark bronze colour	K-14296-00-0-5
		white	K-14296-00-0-7
		black	K-14296-00-0-6
		brass colour	K-14296-00-0-3
	Base plate for slide rail	silver colour	K-15080-00-0-1
		dark bronze colour	K-15080-00-0-5
		white	K-15080-00-0-7
	Base plate for slide rail MF-EA	silver colour	K-15081-00-0-1
		dark bronze colour	K-15081-00-0-5
		white	K-15081-00-0-7
	Base plate for slide rail Standard mounting opposite to hinge side	silver colour	K-15082-00-0-1
		dark bronze colour	K-15082-00-0-5
		white	K-15082-00-0-7
	Axle extension 5 mm 10 mm 15 mm 20 mm	black	K-13490-05-0-6
		black	K-13490-10-0-6
		black	K-13490-15-0-6
		black	K-13490-20-0-6
	Safety screw for caps 10 pieces per bag		K-14451-00-0-1
	Slide rail stop		K-14553-00-0-6


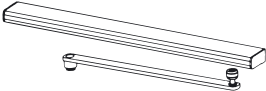


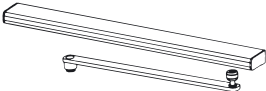
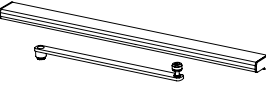
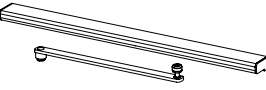





Overhead door closer OTS 730



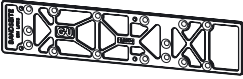
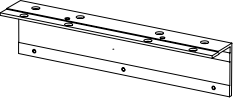
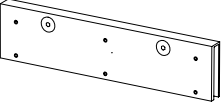
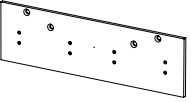
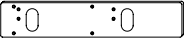
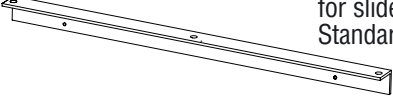
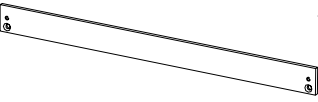
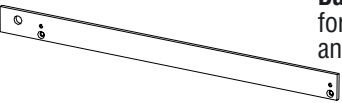
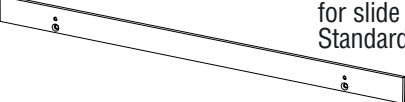
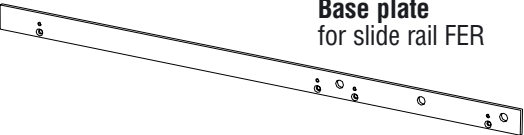



Overhead linear drive door closer with slide rail OTS 730

Figure	Version	Finish	Order number
	OTS 730 – EN 1154 CE Slide rail	silver colour	K-13429-00-0-1
		dark bronze colour	K-13429-00-0-5
	OTS 730 MF-EA – EN 1154 CE Mechanical hold open device switchable on/off	white	K-13429-00-0-7
		brass colour	K-13429-00-0-3
	OTS 730 SV – EN 1154 CE with delayed closing action Slide rail	inox colour	K-13429-00-0-8
		silver colour	K-13484-00-0-1
	OTS 730 MF-EA – EN 1154 CE Mechanical hold open device switchable on/off	dark bronze colour	K-13484-00-0-5
		white	K-13484-00-0-7
	OTS 730 SV – EN 1154 CE with delayed closing action Slide rail	brass colour	K-13484-00-0-3
		inox colour	K-13484-00-0-8
	OTS 730 FE – EN 1155 CE Electromechanical hold open device	silver colour	K-14745-00-0-1
		dark bronze colour	K-14745-00-0-5
	OTS 730 FE – EN 1155 CE Electromechanical hold open device	white	K-14745-00-0-7
		brass colour	K-14745-00-0-3
	OTS 730 SV – EN 1154 CE with delayed closing action Slide rail	inox colour	K-14745-00-0-8
		silver colour	K-13896-00-0-1
	OTS 730 FE – EN 1155 CE Electromechanical hold open device	dark bronze colour	K-13896-00-0-5
		white	K-13896-00-0-7
	OTS 730 FE – EN 1155 CE Electromechanical hold open device	brass colour	K-13896-00-0-3
		inox colour	K-13896-00-0-8
	OTS 730 FER – EN 1155 CE Electromechanical hold open system DIN left / right hand	silver colour	K-14092-00-L-1
		dark bronze colour	K-14092-00-L-5
	OTS 730 FER – EN 1155 CE Electromechanical hold open system DIN left / right hand	white	K-14092-00-L-7
		brass colour	K-14092-00-L-3
	OTS 730 FER – EN 1155 CE Electromechanical hold open system DIN left / right hand	inox colour	K-14092-00-L-8
		silver colour	K-14092-00-R-1
	OTS 730 FER – EN 1155 CE Electromechanical hold open system DIN left / right hand	dark bronze colour	K-14092-00-R-5
		white	K-14092-00-R-7
	OTS 730 FER – EN 1155 CE Electromechanical hold open system DIN left / right hand	brass colour	K-14092-00-R-3
		inox colour	K-14092-00-R-8
	OTS 730 – EN 1154 CE without slide rail	silver colour	K-13688-00-0-1
		dark bronze colour	K-13688-00-0-5
	OTS 730 – EN 1154 CE without slide rail	white	K-13688-00-0-7
		brass colour	K-13688-00-0-3
	OTS 730 – EN 1154 CE without slide rail	inox colour	K-13688-00-0-8
		silver colour	K-14746-00-0-1
	OTS 730 SV – EN 1154 CE with delayed closing action without slide rail	dark bronze colour	K-14746-00-0-5
		white	K-14746-00-0-7
	OTS 730 SV – EN 1154 CE with delayed closing action without slide rail	brass colour	K-14746-00-0-3
		inox colour	K-14746-00-0-8
	Drilling template		6-25957-00-0-0
	Additional drilling template		6-26072-00-0-0

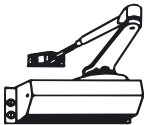
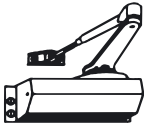

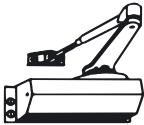
Slide rails for overhead door closer OTS 630, OTS 730

Figure	Version	Finish	Order number
	Slide rail with slide arm	silver colour	K-13485-00-0-1
		dark bronze colour	K-13485-00-0-5
		white	K-13485-00-0-7
	Slide rail with slide arm MF-EA Mechanical hold open device switchable on/off	silver colour	K-13487-00-0-1
		dark bronze colour	K-13487-00-0-5
		white	K-13487-00-0-7
	Slide rail with slide arm for subsequent mounting of mechanical hold open device switchable on/off	silver colour	K-14850-00-0-1
		dark bronze colour	K-14850-00-0-5
		white	K-14850-00-0-7
	Mechanical hold open device switchable on/off	inox colour	K-14850-00-0-8
		brass colour	K-14850-00-0-3
			6-26497-00-0-0
	Slide rail with slide arm Electromechanical hold open device	silver colour	K-13897-00-0-1
		dark bronze colour	K-13897-00-0-5
		white	K-13897-00-0-7
	Slide rail with slide arm Standard mounting opposite to hinge side	inox colour	K-13897-00-0-8
		brass colour	K-13897-00-0-3
	Slide rail with slide arm MF-EA Mechanical hold open device switchable on/off Standard mounting opposite to hinge side	silver colour	K-14271-00-0-1
		dark bronze colour	K-14271-00-0-5
		white	K-14271-00-0-7
	Slide rail with slide arm MF-EA Mechanical hold open device switchable on/off Standard mounting opposite to hinge side	inox colour	K-14271-00-0-8
		brass colour	K-14271-00-0-3
	Flat slide rail with slide arm (depth 27 mm)	silver colour	K-14273-00-0-1
		dark bronze colour	K-14273-00-0-5
		white	K-14273-00-0-7
	Flat slide rail with slide arm MF-EA Mechanical hold open device switchable on/off Standard mounting opposite to hinge side	inox colour	K-14273-00-0-8
		brass colour	K-14273-00-0-3
	Flat slide rail with slide arm (depth 27 mm)	silver colour	K-14519-00-0-1
		dark bronze colour	K-14519-00-0-5
		white	K-14519-00-0-7
	Flat slide rail with slide arm MF-EA Mechanical hold open device switchable on/off Standard mounting opposite to hinge side	inox colour	K-14519-00-0-8
		brass colour	K-14519-00-0-3
	Flat slide rail with slide arm (depth 27 mm)	silver colour	K-14520-00-0-1
		dark bronze colour	K-14520-00-0-5
		white	K-14520-00-0-7
	Flat slide rail with slide arm MF-EA Mechanical hold open device switchable on/off Standard mounting opposite to hinge side	inox colour	K-14520-00-0-8
		brass colour	K-14520-00-0-3
	Hold open device for flat slide rail		K-14525-00-0-0

Accessories for overhead door closer OTS 730

Figure	Version	Finish	Order number
	Mounting plate	silver colour	K-16777-00-0-1
		dark bronze colour	K-16777-00-0-5
		white	K-16777-00-0-7
		inox colour	K-16777-00-0-8
	Combined angular bracket	brass colour	K-16777-00-0-3
		silver colour	K-14552-00-0-1
		dark bronze colour	K-14552-00-0-5
		white	K-14552-00-0-7
	Clamping bracket All glass doors	black	K-14552-00-0-6
		brass colour	K-14552-00-0-3
		silver colour	K-13981-00-0-1
		dark bronze colour	K-13981-00-0-5
	Flat bracket Segmental arch head doors	white	K-13981-00-0-7
		black	K-13981-00-0-6
		brass colour	K-13981-00-0-3
		silver colour	K-13874-00-0-1
	Weld on plate Steel doors	dark bronze colour	K-13874-00-0-5
		white	K-13874-00-0-7
		black	K-13874-00-0-6
		brass colour	K-13874-00-0-3
	Angular soffit bracket for slide rail Standard mounting opposite to hinge side	silver colour	K-14455-00-0-9
		dark bronze colour	K-14296-00-0-5
		white	K-14296-00-0-7
		black	K-14296-00-0-6
	Base plate for slide rail	brass colour	K-14296-00-0-3
		silver colour	K-15080-00-0-1
		dark bronze colour	K-15080-00-0-5
		white	K-15080-00-0-7
	Base plate for slide rail MF-EA and slide rail FE	silver colour	K-15081-00-0-1
		dark bronze colour	K-15081-00-0-5
		white	K-15081-00-0-7
		silver colour	K-15082-00-0-1
	Base plate for slide rail Standard mounting opposite to hinge side	dark bronze colour	K-15082-00-0-5
		white	K-15082-00-0-7
		silver colour	K-15083-00-0-1
		dark bronze colour	K-15083-00-0-5
	Base plate for slide rail FER	white	K-15083-00-0-7
		silver colour	K-13490-05-0-6
		dark bronze colour	K-13490-10-0-6
		white	K-13490-15-0-6
	Axle extension 5 mm 10 mm 15 mm 20 mm	black	K-13490-20-0-6
		black	K-14451-00-0-1
		black	K-14553-00-0-6
		black	
	Safety screw for caps 10 pieces per bag		
	Slide rail stop		

Flat form door closer OTS 81

Figure	Version	Size	Order number silver colour	dark bronze colour	white
	OTS 81 – DIN 18 263 part 1 Standard arm				
	DIN left hand	2	B 8121 0000	B 8121 0005	B 8121 0016
		3	B 8131 0000	B 8131 0005	B 8131 0016
		4	B 8141 0000	B 8141 0005	B 8141 0016
		5	B 8151 0000	B 8151 0005	B 8151 0016
	DIN right hand	2	B 8122 0000	B 8122 0005	B 8122 0016
		3	B 8132 0000	B 8132 0005	B 8132 0016
		4	B 8142 0000	B 8142 0005	B 8142 0016
		5	B 8152 0000	B 8152 0005	B 8152 0016
		OTS 81 Extended arm			
DIN left hand		2	B 8121 0500	B 8121 0505	B 8121 0516
		3	B 8131 0500	B 8131 0505	B 8131 0516
		4	B 8141 0500	B 8141 0505	B 8141 0516
		5	B 8151 0500	B 8151 0505	B 8151 0516
DIN right hand		2	B 8122 0500	B 8122 0505	B 8122 0516
		3	B 8132 0500	B 8132 0505	B 8132 0516
		4	B 8142 0500	B 8142 0505	B 8142 0516
		5	B 8152 0500	B 8152 0505	B 8152 0516
		OTS 81 Hold open arm			
	DIN left hand	2	B 8121 0200	B 8121 0205	B 8121 0216
		3	B 8131 0200	B 8131 0205	B 8131 0216
		4	B 8141 0200	B 8141 0205	B 8141 0216
		5	B 8151 0200	B 8151 0205	B 8151 0216
	DIN right hand	2	B 8122 0200	B 8122 0205	B 8122 0216
		3	B 8132 0200	B 8132 0205	B 8132 0216
		4	B 8142 0200	B 8142 0205	B 8142 0216
		5	B 8152 0200	B 8152 0205	B 8152 0216
		OTS 81 Standard arm, anti-corrosive version			
DIN left hand		2	B 8121 0003	B 8121 0006	B 8121 0007
		3	B 8131 0003	B 8131 0006	B 8131 0007
		4	B 8141 0003	B 8141 0006	B 8141 0007
		5	B 8151 0003	B 8151 0006	B 8151 0007
DIN right hand		2	B 8122 0003	B 8122 0006	B 8122 0007
		3	B 8132 0003	B 8132 0006	B 8132 0007
		4	B 8142 0003	B 8142 0006	B 8142 0007
		5	B 8152 0003	B 8152 0006	B 8152 0007

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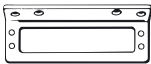
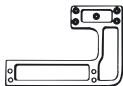
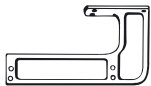




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Accessories for flat form door closer OTS 81



Accessories for flat form door closer OTS 81

Figure	Version	Size	Order number		
			silver colour	dark bronze colour	white
	Replacement spring	2	B 8110 0002		
		3	B 8110 0003		
		4	B 8110 0004		
		5	B 8110 0005		
	Angular soffit bracket 8170	2-4	B 8170 0000	B 8170 0005	B 8170 0006
		5	B 8170 0100	B 8170 0105	B 8170 0106
	Flat bracket 8171	2-4	B 8171 0000	B 8171 0005	B 8171 0006
		5	B 8171 0100	B 8171 0105	B 8171 0106
	Soffit bracket 8172	2-4	B 8172 0000	B 8172 0005	B 8172 0006
		5	B 8172 0100	B 8172 0105	B 8172 0106
	Mounting plate 8173	2-4	B 8173 0000	B 8173 0005	B 8173 0006
	Angular bracket 8174 Parallel arm assembly	2-5	B 8174 0000	B 8174 0005	B 8174 0006
	Base plate 8177	2-5	B 8177 0000	B 8177 0005	B 8177 0006
	Mounting plate 8178	3+4	B 8178 0000	B 8178 0005	B 8178 0006
		5	B 8178 0100	B 8178 0105	B 8178 0106

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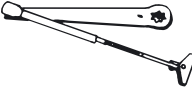
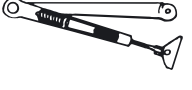
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Arms for flat form door closer OTS 81



Arms for door closer OTS 81

Figure	Version	Size	Order number		
			silver colour	dark bronze colour	white
	Standard arm	2-4	B 8083 0020	B 8083 0025	B 8083 0026
		5	B 8085 0020	B 8085 0025	B 8085 0026
	Extended arm	2-4	B 8183 0000	B 8183 0005	B 8183 0006
		5	B 8185 0000	B 8185 0005	B 8185 0006
	Hold open arm	2+3	B 8183 0200	B 8183 0205	B 8183 0206
		4	B 8184 0200	B 8184 0205	B 8184 0206
		5	B 8185 0200	B 8185 0205	B 8185 0206

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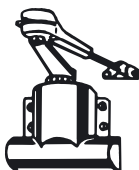

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




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Door closer OTS 80

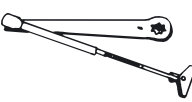
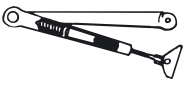
Figure	Version	Size	Order number silver colour	dark bronze
	OTS 80 Standard arm			
	DIN left hand	2	B 8021 0000	B 8021 0005
		3	B 8031 0000	B 8031 0005
		4	B 8041 0000	B 8041 0005
		5	B 8051 0000	B 8051 0005
		6	B 8061 0000	B 8061 0005
	DIN right hand	2	B 8022 0000	B 8022 0005
		3	B 8032 0000	B 8032 0005
		4	B 8042 0000	B 8042 0005
		5	B 8052 0000	B 8052 0005
		6	B 8062 0000	B 8062 0005
		OTS 80 Extended arm		
DIN left hand		2	B 8021 0500	B 8021 0505
		3	B 8031 0500	B 8031 0505
		4	B 8041 0500	B 8041 0505
		5	B 8051 0500	B 8051 0505
		6	B 8061 0500	B 8061 0505
DIN right hand		2	B 8022 0500	B 8022 0505
		3	B 8032 0500	B 8032 0505
		4	B 8042 0500	B 8042 0505
		5	B 8052 0500	B 8052 0505
		6	B 8062 0500	B 8062 0505
		OTS 80 Hold open arm		
	DIN left hand	2	B 8021 0200	B 8021 0205
		3	B 8031 0200	B 8031 0205
		4	B 8041 0200	B 8041 0205
		5	B 8051 0200	B 8051 0205
		6	B 8061 0200	B 8061 0205
	DIN right hand	2	B 8022 0200	B 8022 0205
		3	B 8032 0200	B 8032 0205
		4	B 8042 0200	B 8042 0205
		5	B 8052 0200	B 8052 0205
		6	B 8062 0200	B 8062 0205
		OTS 80 Standard arm, anti-corrosive version		
DIN left hand		2	B 8021 0003	B 8021 0006
		3	B 8031 0003	B 8031 0006
		4	B 8041 0003	B 8041 0006
		5	B 8051 0003	B 8051 0006
		6	B 8061 0003	B 8061 0006
DIN right hand		2	B 8022 0003	B 8022 0006
		3	B 8032 0003	B 8032 0006
		4	B 8042 0003	B 8042 0006
		5	B 8052 0003	B 8052 0006
		6	B 8062 0003	B 8062 0006

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Accessories for door closer OTS 80

Figure	Version	Size	Order number silver colour	dark bronze
	Replacement spring 8010	1	B 8010 0001	
		2	B 8010 0002	
		3	B 8010 0003	
		4	B 8010 0004	
		5	B 8010 0005	
		6	B 8010 0006	
	Flat bracket 8071	2-4	B 8071 0100	B 8071 0105
		5+6	B 8071 0200	B 8071 0205
	Soffit bracket 8072	2-4	B 8072 0100	B 8072 0105
		5+6	B 8072 0200	B 8072 0205
	T bracket 8073	2-4	B 8073 0100	B 8073 0105
		5+6	B 8073 0200	B 8073 0205
	Angular bracket 8174 Parallel arm assembly	2-6	B 8174 0000	B 8174 0005
	Base plate 8177	2-6	B 8177 0000	B 8177 0005

Arms for door closer OTS 80

Figure	Version	Size	Order number silver colour	dark bronze
	Standard arm	2	B 8082 0020	B 8082 0025
		3+4	B 8083 0020	B 8083 0025
		5	B 8085 0020	B 8085 0025
		6	B 8086 0020	B 8086 0025
	Hold open arm	2	B 8182 0200	B 8182 0205
		3	B 8183 0200	B 8183 0205
		4	B 8184 0200	B 8184 0205
		5	B 8185 0200	B 8185 0205
		6	B 8186 0200	B 8186 0205

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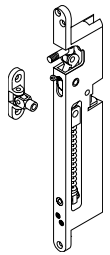
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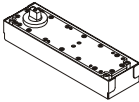
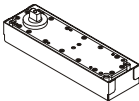
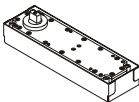
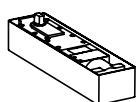
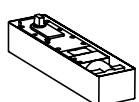
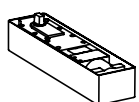
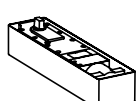
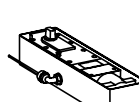
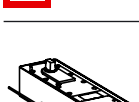
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Rebate door closer FTS 20 and FTS 24 for concealed installation in the vertical door rebate

Figure	Version	Order number
	Rebate door closer FTS 20 – EN 1154 CE	K-15144-00-0-0
	Rebate door closer FTS 24 – EN 1154 CE	K-15145-00-0-0



Floor springs without cover plate UTS 42, UTS 82, UTS 85

Figure	Version	Order number	
	UTS 42 – EN 1154 CE	K-15342-00-0-0	
	UTS 42 – EN 1154 CE with mechanical hold open device on both sides 90° with swing doors 85° with rebated doors	K-15343-00-0-0	
	UTS 42 – EN 1154 CE with mechanical hold open device on both sides 95° with swing doors 90° with rebated doors	K-15344-00-0-0	
	UTS 82 – EN 1154 CE with backcheck, without hold open for interior doors for left hand, right hand and double swing doors	K-12923-00-0-0	
	UTS 82 HF – EN 1154 CE with backcheck and hydraulic hold open with delayed closing action for interior doors for left hand, right hand and double swing doors	K-13198-00-0-0	
	UTS 85 HF – EN 1154 CE with backcheck and hydraulic hold open with delayed closing action for left hand, right hand and double swing doors	K-12925-00-0-0	
	UTS 85 F – EN 1154 CE with backcheck for left hand or right hand doors	DIN left hand K-12924-00-L-0	DIN right hand K-12924-00-R-0
	UTS 85 FE – EN 1155 CE with backcheck Electrohydraulic hold open for left hand or right hand doors (licensed by construction control board with various fire alarm systems)	K-13447-00-L-0	K-13447-00-R-0
	UTS 85 FL – EN 1155 CE with backcheck Electrohydraulic swing-free for left hand or right hand doors (licensed by construction control board with various fire alarm systems)	K-13449-00-L-0	K-13449-00-R-0

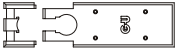


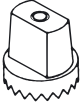



Floor spring UTS 840



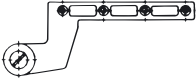
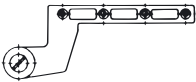
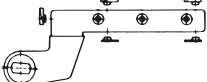
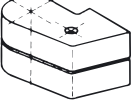
Floor spring UTS 840 for internal and external double swing doors

Figure	Version	Size Nm [1]	Finish Cover plates	Order number
	Floor springs UTS 840	25	SS matt finish	V-00700-25-0-8H
		33	SS matt finish	V-00700-33-0-8H
<p>[1] Size 25: Internal doors up to 1000 mm width Size 33: Internal doors up to 1200 mm width – external doors up to 1000 mm width Included in delivery for timber doors: Floor spring, cement case, cover – stainless steel matt finish, top pivot – top part, top pivot – bottom part, spindle arms</p>				
	Cover plates UTS 840		SS polished	V-00704-00-0-8I
			Titanium	V-00704-00-0-3R

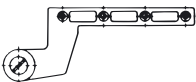
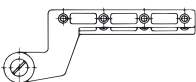
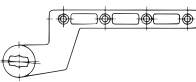
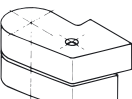
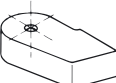
Accessories for floor springs

Figure	Version	Finish	Order number	
	Cover plates UTS 42	stainless steel	K-15385-00-0-8	
	Cover plates UTS 82, UTS 85	stainless steel brass, satin finish natural anodized alu dark bronze anodized alu	K-12928-00-0-8 K-12929-00-0-0 K-12926-00-0-1 K-12926-00-0-5	
	Door pivot Rebated and swing doors, with ball bearing, with cover of stainless steel and plastic cap		K-12942-00-0-1	
	Axle, top part tapered and offset 5° for all glass doors with top stop		DIN left hand K-13481-00-L	DIN right hand K-13481-00-R
	Axle, top part with square spindle for left or right hand doors with square spindle for swing doors		K-13482-00-L-0 K-13482-00-0-0	K-13482-00-R-0
	Axle extensions UTS 42 with cylinder screw	V = mm	Order number	
		5	K-15386-00-0-0	
		10	K-15386-05-0-0	
		15	K-15386-10-0-0	
		20	K-15386-15-0-0	
		25	K-15386-20-0-0	
			K-13126-25-0-1	
	Axle extensions UTS 82, UTS 85 with clamping screw	V = mm	Order number	
		5	K-13125-00-0-1	
		10	K-13125-05-0-1	
		15	K-13125-10-0-1	
		20	K-13125-15-0-1	
		25	K-13125-20-0-1	
		30	K-13125-25-0-1	
		35	K-13126-30-0-1	
		40	K-13126-35-0-1	
		45	K-13126-40-0-1	
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			K-13126-50-0-1	
	Sealing compound		K-13048-00-0-0	

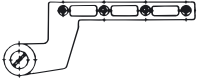
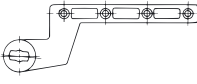

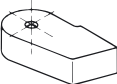
Accessories for rebated aluminium doors

Figure	Version	Hinge pin mm	Order number	
	Steel top pivots drop forged, galvanized	Version 1		
		41 mm	K-13047-41-0-1	
		45 mm	K-13047-45-0-1	
		50 mm	K-13047-50-0-1	
	Steel top pivots drop forged, galvanized	Version 2	DIN left hand	DIN right hand
		41 mm	K-13050-41-L-1	K-13050-41-R-1
		45 mm	K-13050-45-L-1	K-13050-45-R-1
		50 mm	K-13050-50-L-1	K-13050-50-R-1
	Aluminium spindle arms with steel insert, galvanized with spacers	Finish		
		silver colour	K-12048-00-0-1	
		dark bronze colour	K-12048-00-0-5	
	Aluminium caps for top pivot Top and bottom parts	Finish		
		silver colour	K-12947-00-0-1	
		dark bronze colour	K-12947-00-0-5	



Accessories for rebated timber doors

Figure	Version	Hinge pin mm	Order number	
	Top pivots for rebated doors, steel drop forged, galvanized	Version 1		
		41 mm	K-12933-00-0-1	
	Top pivots for rebated doors, steel drop forged, galvanized	Version 2	DIN left hand	DIN right hand
		41 mm	K-13049-00-L-1	K-13049-00-R-1
	Spindle arms for rebated doors, steel drop forged, galvanized		K-12932-00-0-1	
	Aluminium caps for top pivot Top and bottom parts	Finish	DIN left hand	DIN right hand
		silver colour	K-12952-00-L-1	K-12952-00-R-1
		dark bronze colour	K-12952-00-L-5	K-12952-00-R-5
	Aluminium caps for spindle arm	Finish	DIN left hand	DIN right hand
		silver colour	K-12940-00-L-1	K-12940-00-R-1
		dark bronze colour	K-12940-00-L-5	K-12940-00-R-5



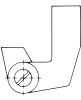
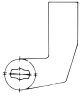
Accessories for flush timber doors

Figure	Version	Hinge pin mm	Order number	
	Top pivots for flush doors, steel drop forged, galvanized	41 mm	K-12935-00-0-1	
	Spindle arms for flush doors, steel drop forged, galvanized		K-12936-00-0-1	
	Aluminium caps for top pivot Top and bottom parts	Finish	silver colour	K-12947-00-0-1
			dark bronze colour	K-12947-00-0-5
	Aluminium caps for spindle arm	Finish	DIN left hand	DIN right hand
		silver colour	K-12944-00-L-1	K-12944-00-R-1
		dark bronze colour	K-12944-00-L-5	K-12944-00-R-5



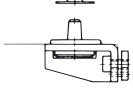
Accessories - slide arms, axes, axle extensions

Figure	Version	Finish	Order number	
	Slide arms with slide rail not for UTS 42, UTS 840	silver colour	K-14877-00-0-1	
		dark bronze colour	K-14877-00-0-5	
	Axle extensions for rocker arm	V = mm		
		5	K-14939-05-0-6	
		10	K-14939-10-0-6	
		15	K-14939-15-0-6	
		20	K-14939-20-0-6	

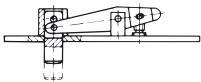
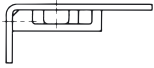
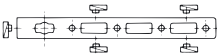
Accessories for rebated steel doors

Figure	Version	Hinge pin mm	Order number	
	Weld-on top pivots, steel drop forged, galvanized	41 mm	K-13053-00-0-0	
	Weld-on spindle arms, steel drop forged, galvanized		9-31603-00-0-0	
	Weld-in top pivots, steel drop forged, galvanized	41 mm	K-12934-00-0-0	
	Weld-in spindle arms, steel drop forged, galvanized		9-31623-00-0-0	

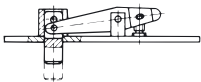
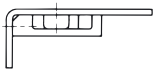
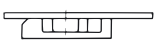
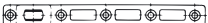
Accessories for fire rated doors

Figure	Version	Hinge pin mm	Order number
	Top pivots according to DIN 18082, part 3 of steel drop forged, galvanized	41 mm	K-12937-00-0-0
	Spindle arms according to DIN 18082, part 3 of steel drop forged, galvanized		K-12938-00-0-0
	Door pivots according to DIN 18082, part 3 of galvanized steel with ball bearing and cover		K-12945-00-0-1


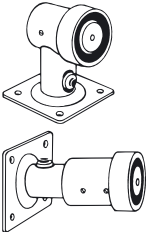

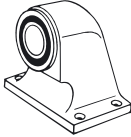
Accessories for aluminium double swing doors

Figure	Version	Hinge pin mm	Order number
	Top pivot - top part, steel galvanized	45 mm 55 mm 65 mm	6-24716-45-0-1 6-24716-55-0-1 6-24716-65-0-1
	Top pivot - bottom part, steel adjustable, galvanized		6-24767-00-0-1
	Spindle arm, steel drop forged, galvanized with spacers		K-12948-00-0-1


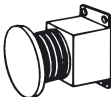



Accessories for timber and steel double swing doors and timber revolving doors

Figure	Version	Hinge pin mm	Order number
	Top pivot - top part, steel galvanized	45 mm	6-24716-45-0-1
	Top pivot - bottom part, steel adjustable, galvanized Double swing doors		6-24767-00-0-1
	Top pivot - bottom part, steel adjustable, galvanized Timber revolving doors		6-24768-00-0-1
	Spindle arm, steel drop forged, galvanized		9-31680-00-0-1

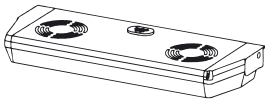



Hold open magnets for hold open systems

Figure	Version	Order number															
	Door hold open magnet 24 V DC with mounting plate and concealed connecting terminal Holding force 800 N	B 8400 0320															
	Door hold open magnet 24 V DC with spacer for floor or wall mounting (reversible), holding force 800 N																
	<table border="1"> <thead> <tr> <th>Wall distance Dim. „A“ mm</th> <th>Floor distance Dim. „B“ mm</th> <th>Order number</th> </tr> </thead> <tbody> <tr> <td>110</td> <td>70</td> <td>B 8400 0321</td> </tr> <tr> <td>150</td> <td>110</td> <td>B 8400 0322</td> </tr> <tr> <td>260</td> <td>220</td> <td>B 8400 0323</td> </tr> <tr> <td>390</td> <td>350</td> <td>B 8400 0324</td> </tr> </tbody> </table>	Wall distance Dim. „A“ mm	Floor distance Dim. „B“ mm	Order number	110	70	B 8400 0321	150	110	B 8400 0322	260	220	B 8400 0323	390	350	B 8400 0324	
Wall distance Dim. „A“ mm	Floor distance Dim. „B“ mm	Order number															
110	70	B 8400 0321															
150	110	B 8400 0322															
260	220	B 8400 0323															
390	350	B 8400 0324															
	Door hold open magnet 24 V DC for wall mounting, surface installation Holding force 800 N	B 8400 0325															
	Door hold open magnet 24 V DC for floor mounting, aluminium housing Holding force 800 N	B 8400 0327															





Armature plates and interrupters for hold open systems

Figure	Version	Order number
	Armature plate Sprung mounting plate for alignment to magnet	B 8400 0400
	Armature plate Mounting housing with spring damper	B 8400 0401
	Armature plate Mounting plate with additional adjustment	B 8400 0402
	Interrupter, surface installation	B 8400 0500
	Interrupter, concealed installation	B 8400 0510

Fire alarm centre line and accessories

Figure	Version	Finish	Order number
	BMZ 730 Fire alarm centre line for door control (licensed by construction control board Licence Number Z-6.5-1371)	silver colour	K-14084-00-0-1
		dark bronze colour	K-14084-00-0-5
		white	K-14084-00-0-7
		black	K-14084-00-0-6
		brass colour	K-14084-00-0-3
		inox colour	K-14084-00-0-8
	BM A 880 Stray light smoke detector for ceiling mounting Locking socket BM A 880	white	K-14129-00-0-0
		white	K-14130-00-0-0
	Interrupter, surface installation		B 8400 0500
	Interrupter, concealed installation		B 8400 0510



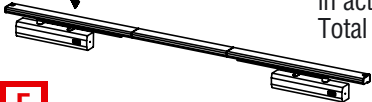
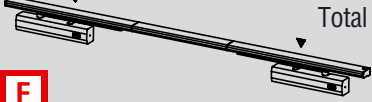


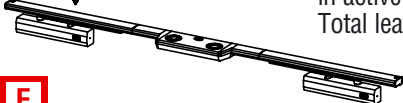
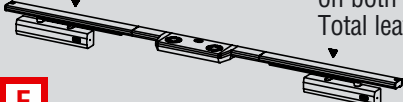
Smoke control switch and smoke detector for hold open systems

Figure	Version	Order number
	Smoke control switch 0,25 A, 24 V DC	B 8400 0100
	Smoke control switch 0,8 A, 24 V DC	B 8400 0110
	Optical fire detector	B 8400 0200
	Interrupter, surface installation	B 8400 0500
	Interrupter, concealed installation	B 8400 0510

Overhead door closer OTS 730 with door leaf coordinator



Overhead linear drive door closer, door leaf coordinator integrated in slide rail
Mounting on hinge side

Version	Order number			
		OTS 730	SRI 730	BMZ
		2 pieces	1 piece	1 piece
OTS 730 SRI	Slide rail Total leaf width 1240-2800 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14602-00-0-* K-14602-00-0-3 K-14602-00-0-8	
				
F				
OTS 730 SRI	Slide rail Total leaf width 1030-1240 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14607-00-0-* K-14607-00-0-3 K-14607-00-0-8	
				
F				
OTS 730 FE-SRI	Electromechanical hold open device in active leaf Total leaf width 1240-2800 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14603-00-0-* K-14603-00-0-3 K-14603-00-0-8	
				
F				
OTS 730 FE-SRI	Electromechanical hold open device on both sides Total leaf width 1240-2800 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14604-00-0-* K-14604-00-0-3 K-14604-00-0-8	
				
F				
OTS 730 FE-SRI	Electromechanical hold open device in active leaf Total leaf width 1030-1240 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14608-00-0-* K-14608-00-0-3 K-14608-00-0-8	
				
F				
OTS 730 FE-SRI	Electromechanical hold open device on both sides Total leaf width 1030-1240 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14609-00-0-* K-14609-00-0-3 K-14609-00-0-8	
				
F				
OTS 730 FER-SRI	Electromechanical hold open system in active leaf Total leaf width 1640-2800 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14605-00-0-* K-14605-00-0-3 K-14605-00-0-8	K-14084-00-0-* K-14084-00-0-3 K-14084-00-0-8
				
F				
OTS 730 FER-SRI	Electromechanical hold open system on both sides Total leaf width 1640-2800 mm	K-13688-00-0-* K-13688-00-0-3 K-13688-00-0-8	K-14606-00-0-* K-14606-00-0-3 K-14606-00-0-8	K-14084-00-0-* K-14084-00-0-3 K-14084-00-0-8
				
F				

-* = silver colour, dark bronze and white (RAL 9016)

-3 = brass colour

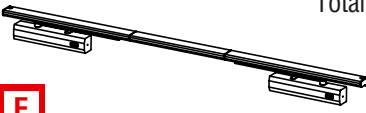

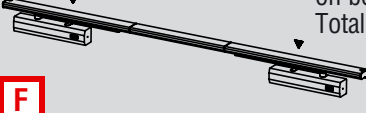
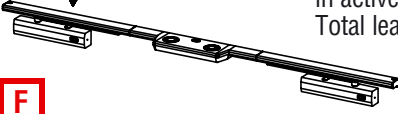
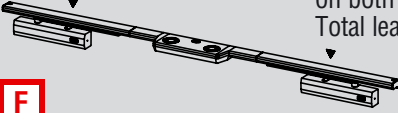
-8 = inox colour

Overhead door closer OTS 730 with door leaf coordinator



Overhead linear drive door closer, door leaf coordinator integrated in slide rail

** BG = Mounting of door leaf coordinator opposite to hinges

Version		Order number		
		OTS 730 2 pieces	SRI 730 1 piece	BMZ 1 piece
OTS 730 SRI BG** 	Slide rail Total leaf width 1570-2800 mm	K-13688-00-0-*	K-14610-00-0-*	
		K-13688-00-0-3	K-14610-00-0-3	
		K-13688-00-0-8	K-14610-00-0-8	
OTS 730 FE-SRI BG** 	Electromechanical hold open device in active leaf Total leaf width 1570-2800 mm	K-13688-00-0-*	K-14611-00-0-*	
		K-13688-00-0-3	K-14611-00-0-3	
		K-13688-00-0-8	K-14611-00-0-8	
OTS 730 FE-SRI BG** 	Electromechanical hold open device on both sides Total leaf width 1570-2800 mm	K-13688-00-0-*	K-14612-00-0-*	
		K-13688-00-0-3	K-14612-00-0-3	
		K-13688-00-0-8	K-14612-00-0-8	
OTS 730 FER-SRI BG** 	Electromechanical hold open system in active leaf Total leaf width 1960-2800 mm	K-13688-00-0-*	K-14613-00-0-*	K-14084-00-0-*
		K-13688-00-0-3	K-14613-00-0-3	K-14084-00-0-3
		K-13688-00-0-8	K-14613-00-0-8	K-14084-00-0-8
OTS 730 FER-SRI BG** 	Electromechanical hold open system on both sides Total leaf width 1960-2800 mm	K-13688-00-0-*	K-14614-00-0-*	K-14084-00-0-*
		K-13688-00-0-3	K-14614-00-0-3	K-14084-00-0-3
		K-13688-00-0-8	K-14614-00-0-8	K-14084-00-0-8

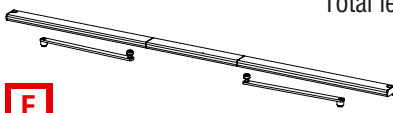
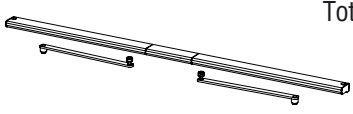
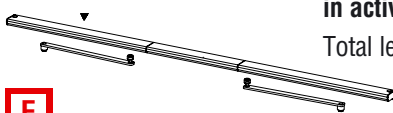
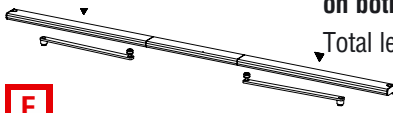
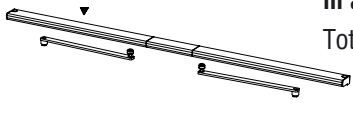
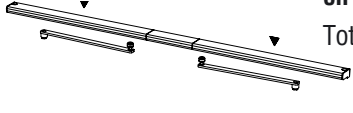
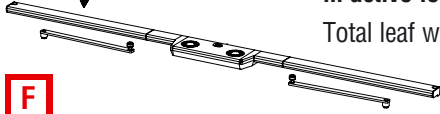
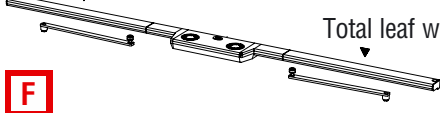
** BG = Mounting of door leaf coordinator opposite to hinges

-* = silver colour, dark bronze and white (RAL 9016)

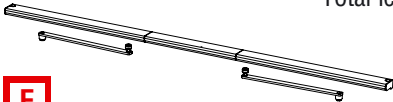
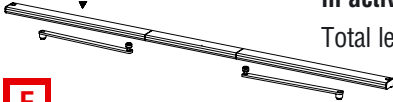

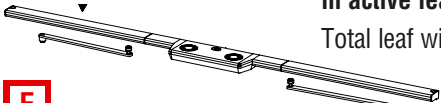
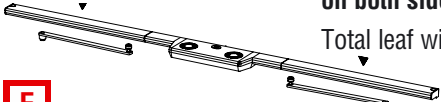
-3 = brass colour

-8 = inox colour

Door leaf coordinator, integrated in slide rail, for overhead linear drive door closer
OTS 730 SRI – EN 1158 CE

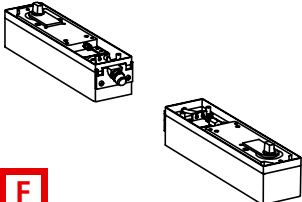
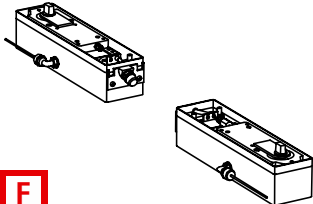
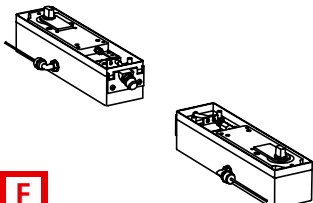
Figure	Version	Finish	Order number
 F	OTS 730 SRI Slide rail Total leaf width 1240-2800 mm	silver colour	K-14602-00-0-1
		dark bronze colour	K-14602-00-0-5
		white	K-14602-00-0-7
		black	K-14602-00-0-6
		brass colour	K-14602-00-0-3
		inox colour	K-14602-00-0-8
 F	OTS 730 SRI Slide rail Total leaf width 1030-1240 mm	silver colour	K-14607-00-0-1
		dark bronze colour	K-14607-00-0-5
		white	K-14607-00-0-7
		black	K-14607-00-0-6
		brass colour	K-14607-00-0-3
		inox colour	K-14607-00-0-8
 F	OTS 730 FE-SRI Electromechanical hold open device in active leaf Total leaf width 1240-2800 mm	silver colour	K-14603-00-0-1
		dark bronze colour	K-14603-00-0-5
		white	K-14603-00-0-7
		black	K-14603-00-0-6
		brass colour	K-14603-00-0-3
		inox colour	K-14603-00-0-8
 F	OTS 730 FE-SRI Electromechanical hold open device on both sides Total leaf width 1240-2800 mm	silver colour	K-14604-00-0-1
		dark bronze colour	K-14604-00-0-5
		white	K-14604-00-0-7
		black	K-14604-00-0-6
		brass colour	K-14604-00-0-3
		inox colour	K-14604-00-0-8
 F	OTS 730 FE-SRI Electromechanical hold open device in active leaf Total leaf width 1030-1240 mm	silver colour	K-14608-00-0-1
		dark bronze colour	K-14608-00-0-5
		white	K-14608-00-0-7
		black	K-14608-00-0-6
		brass colour	K-14608-00-0-3
		inox colour	K-14608-00-0-8
 F	OTS 730 FE-SRI Electromechanical hold open device on both sides Total leaf width 1030-1240 mm	silver colour	K-14609-00-0-1
		dark bronze colour	K-14609-00-0-5
		white	K-14609-00-0-7
		black	K-14609-00-0-6
		brass colour	K-14609-00-0-3
		inox colour	K-14609-00-0-8
 F	OTS 730 FER-SRI Electromechanical hold open system in active leaf Total leaf width 1640-2800 mm	silver colour	K-14605-00-0-1
		dark bronze colour	K-14605-00-0-5
		white	K-14605-00-0-7
		black	K-14605-00-0-6
		brass colour	K-14605-00-0-3
		inox colour	K-14605-00-0-8
 F	OTS 730 FER-SRI Electromechanical hold open system on both sides Total leaf width 1640-2800 mm	silver colour	K-14606-00-0-1
		dark bronze colour	K-14606-00-0-5
		white	K-14606-00-0-7
		black	K-14606-00-0-6
		brass colour	K-14606-00-0-3
		inox colour	K-14606-00-0-8

Door leaf coordinator, integrated in slide rail, for overhead linear drive door closer
OTS 730 SRI BG – EN 1158 CE **

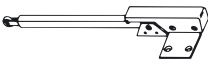


Figure	Version	Finish	Order number
 OTS 730 SRI BG ** Slide rail Total leaf width 1570-2800 mm		silver colour	K-14610-00-0-1
		dark bronze colour	K-14610-00-0-5
		white	K-14610-00-0-7
		black	K-14610-00-0-6
		brass colour	K-14610-00-0-3
	inox colour	K-14610-00-0-8	
 OTS 730 FE-SRI BG ** Electromechanical hold open device in active leaf Total leaf width 1570-2800 mm		silver colour	K-14611-00-0-1
		dark bronze colour	K-14611-00-0-5
		white	K-14611-00-0-7
		black	K-14611-00-0-6
		brass colour	K-14611-00-0-3
	inox colour	K-14611-00-0-8	
 OTS 730 FE-SRI BG ** Electromechanical hold open device on both sides Total leaf width 1570-2800 mm		silver colour	K-14612-00-0-1
		dark bronze colour	K-14612-00-0-5
		white	K-14612-00-0-7
		black	K-14612-00-0-6
		brass colour	K-14612-00-0-3
	inox colour	K-14612-00-0-8	
 OTS 730 FER-SRI BG ** Electromechanical hold open system in active leaf Total leaf width 1960-2800 mm		silver colour	K-14613-00-0-1
		dark bronze colour	K-14613-00-0-5
		white	K-14613-00-0-7
		black	K-14613-00-0-6
		brass colour	K-14613-00-0-3
	inox colour	K-14613-00-0-8	
 OTS 730 FER-SRI BG ** Electromechanical hold open system on both sides Total leaf width 1960-2800 mm		silver colour	K-14614-00-0-1
		dark bronze colour	K-14614-00-0-5
		white	K-14614-00-0-7
		black	K-14614-00-0-6
		brass colour	K-14614-00-0-3
	inox colour	K-14614-00-0-8	

** BG = Mounting of door leaf coordinator opposite to hinges



Door leaf coordinator UTS SRI integrated without cover plate – EN 1158 CE

Figure	Version	Order number
	<p>UTS 85 F SRI Floor spring to DIN 18263 part 3 with backcheck Door leaf coordinator integrated</p>	K-13526-00-0-0
	<p>UTS 85 FE SRI with backcheck Electrohydraulic hold open device Door leaf coordinator integrated</p>	K-13528-00-0-0
	<p>UTS 85 FL SRI with backcheck Electrohydraulic swing-free function Door leaf coordinator integrated</p>	K-13530-00-0-0
	<p>Modification kit UTS SRI for the subsequent conversion to integrated door leaf coordination Usable for all floor spring types in unassembled condition</p>	K-13525-00-0-0

Door leaf coordinator and carrier bar

Figure	Version	Order number	
		silver colour	dark bronze
	Door leaf coordinator 8641 Double doors of steel and timber, fire rated doors T 30-2 Doors, system GLISSA MBB	B 8641 0000 B 8641 0100	B 8641 0005 B 8641 0105
	Carrier bar 8642 Polyurethane roller buffer	Rebate mm	Door inactive leaf mm
	Version		
	„A“	0-11	500-800
	„B“	10-17	500-800
	Carrier bar 8642 Polyurethane roller buffer	Rebate mm	Door inactive leaf mm
	Version		
	„A“	0-11	801-
	„B“	10-17	801-

Door holder

Figure	Version	Travel mm	Finish	Order number
	Door holder 3934	30	silver painted dark brown painted white painted	B 3934 0101 B 3934 0137 B 3934 0139
		100	silver painted dark brown painted	B 3934 0109 B 3934 0115
			Special colours Replacement rubber plug w. screw	B 3919 0102
	Door holder 3933	30	silver painted dark brown painted	B 3933 0101 B 3933 0137
			Replacement rubber plug w/o screw	B 3909 0101

Acceptance test of hold open systems for fire rated doors



Due to official terms of admission, the use of hold open systems on fire rated doors is subject to the following regulations:

1. Acceptance Test

After the installation of a hold open system on site its faultless operation and assembly according to regulations have to be checked by an acceptance test. Manufacturers of release mechanisms and hold open systems are obliged to point out this test. The operating company/user must arrange for its execution.

The acceptance test must be carried out only by specialists of the manufacturer or specialists authorized by the manufacturer or specialists of an appointed inspection authority.

The acceptance test must comprise at least the following items:

- The devices installed with the hold open system must be identical with those indicated in the licence notice.
- The marking of the devices installed must correspond to that indicated in the licence notice.
- The coordination of all devices must be checked on the basis of the licence notice. Hereby, the release must be effected both by simulation of the parameters activating the detector (temperature, ionisation/gas, smoke) and by hand.
- It must be checked if the connection for automatic closing is released, when the hold open system is out of order (e.g. by removal of an alarm device or through force failure).

When the acceptance test is successfully completed, a durable sign supplied by the manufacturer must be put on the wall close to the fire rated door with the inscription

Hold open system Accepted by (name of company, month and year of acceptance)
--

The operating company/user receives a certificate of successful acceptance which he must keep in custody.

2. Periodic Checkup

The operating company / user must take care that the hold open system remains permanently operational and check it for correct functioning once a month.

Moreover, the operating company / user is obliged to arrange for maintenance works where all devices are checked for perfect coordination at least once a year unless other intervals are specified in the licence notice.

The maintenance works must be carried out by experts or especially trained persons only. Extent, time and result of the checkups are to be recorded. The records must be kept by the operating company / user.

G.U after sales service can offer to the users of hold open systems the execution of the official regulations :

- a. Acceptance test after installation on site including mounting of acceptance sign.
- b. Conclusion of a service contract for yearly inspection including the check of all devices for perfect coordination according to point 2 „Periodic Checkup“.
- c. Service without service contract

We must point out that for G.U hold open systems only tested and licensed devices of our own make must be used.

Licence notices providing evidence of the acceptance or of the surveillance authority are made available on request.



Lined area for notes with horizontal ruling lines.

A thick blue horizontal bar spans the width of the page. Below it, the page is filled with numerous horizontal lines, providing a template for handwritten notes.

A series of horizontal lines for writing notes, starting below a blue header bar and ending above the footer.



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The business range "entrance systems" encloses projection, production, distribution, assembly and service of automatic door installations. With ATS the G.U Group extends the supply of system solutions for windows, internal and external doors as well as for façades.



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