ALLEGION™

CISA®

Cam action door closers

For some building users a self-closing fire door can become a barrier to access

The principal objective of a door closer is, not surprisingly, to close a door and in the case of unlatched fire doors in a corridor, to keep the doors closed in the event of a fire. No wonder then that the ease with which such a door can be pulled open can be severely compromised by this opposing force. So much so in fact that many users, including the elderly, small children and those with various physical disabilities, find the door can become a barrier to them accessing the building and its facilities, or at least it becomes an obstacle to be overcome.

The Equalities Act - disability legislation

Legislation aimed at providing universal accessibility of buildings requires service providers to make "reasonable adjustments to the physical features of their premises to overcome barriers to access".

Approved Doc M of the Building Regulations and BS 8300 both provide guidance in establishing recommended maximum opening forces for door controls to assist less able users (refer to page 23 for further information).

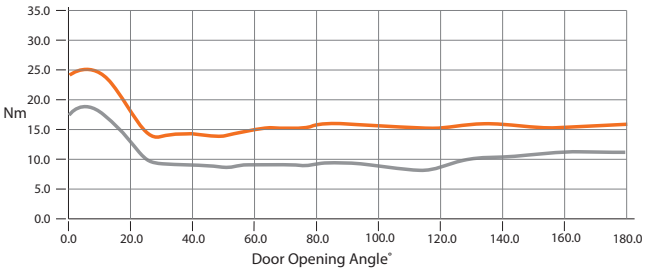
High efficiency CISA closers which are capable of meeting the required levels of opening and closing forces are marked with the "Wheelchair Symbol" but accurate installation, hinge friction, door seals and variable air pressure can all have a bearing on the opening resistance of the final doorset.

For doors which must also meet the stringent closing force requirements for fire door applications, it may be more appropriate to use electromagnetic hold open or swing free closers or a powered opening solution.

Easy Opening, Reliable Closing

In contrast to a conventional rack and pinion door closer in a slide channel application, the linear cam action principle of the CISA Easy Opening Series of door closers is extremely efficient. The initial opening force decreases very rapidly as the door opens allowing, in particular, children and the elderly to overcome the closing power without any problem.

During testing, the CISA cam action closers produced the following torque graph which illustrates the respective opening and closing forces throughout the opening and closing cycle of the door. The measurements were taken with the closer set at power size 3 and show the opening forces well within the requirements of Approved Doc M and BS8300.



Force Profile

Closer D7200 set to EN 3 Power setting

Opening Moment

Closing Moment

A model to suit all applications and budgets

The CISA D7200 Series, a high performance, function rich series of surface mounted overhead door closers with adjustable power EN 2 - 5 and electromagnetic hold-open variants.

The CISA D6200 Series provides many of the features of the CISA D7200 but in a slimline and cost effective package. Available in simple trimplate option or with an all-over cover variant.

The CISA D8200 Series offers the full benefits of the CISA cam action in a fully concealed format, offering exceptional performance and aesthetics.

CISA D8200 Series – Cam action in a compact concealed overhead closer

Versatile and elegant

The CISA D8200 Series is a precision manufactured cam-action, slide channel door closer, in a compact concealed unit. With the closer body mounted within the top of the door and the slide track within the head frame, the CISA D8200 Series offers high resistance to abuse and offers a highly aesthetic solution being fully concealed when the door is closed. Suitable for doors 44mm thick and above.

Providing exceptional ease of use by reducing the resistance encountered when opening the door, the CISA D8200 Series bridges the gap between the requirements for fire and smoke control and ease of operation required for accessibility.

The CISA D8200 Series is CE marked to EN1154 and fire tested to EN1634-1 on timber doors to achieve a 1 hour fire rating when installed with the approved intumescent gasket set (**1.07209.20.0**).

CE
(EN 1154)

CISA Series D8200 - Cam action

Features & Benefits

- A CISA D8200 Series has a compact extruded aluminium body requiring minimal removal of material from the door and frame.
- B High performance cam action technology is extremely efficient, allowing the closer to be set to provide reliable closing power for fire door applications yet still be easy to open.
- C Needle roller bearings provide increased bearing load for efficient operation and improved reliability.
- D Power adjustment allows installers to adjust the spring power to suit the size and location of the door.
- E Coil springs manufactured in silicon chrome alloy steel for superior strength and reliability.
- F High quality hydraulic fluid with built-in temperature compensation ensures reliable performance in temperatures from -15˚C to +40˚C without the need for seasonal adjustments.
- G Aluminium slide track 23mm wide.
- H Powder coated steel track arm with nylon runner.
- I Ideally suited to factory preparation of the door and frame.

  CISA D8200 Series door controls are packed complete - reducing the possibility of lost or missing parts.

  Non handed design is suitable for all applications and has a maximum opening angle of 120˚.

- 0 See standard control options and adjustments 0 - 2 overleaf, adjustable by Hex socket key.
- 4 Optional cushion stop (ref: **1.07209.010**) helps prevent doors from coming into contact with adjacent walls (note: this is not a backcheck function).
- 5 Optional mechanical hold-open unit can be retrofitted into the slide track.

Installation

For all overhead door closers to function efficiently, accurate and correct installation is required. This will not only enable the closer to perform to its designed specification but will provide extended life cycles.

The concealed CISA D8200 Series closer benefits particularly from factory preparation of the door and frame. This minimises the amount of material removed from the door, an essential aspect in fire door applications in particular.

Intumescent gasket set (107209.20.0)

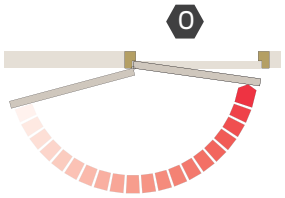
A significant amount of fire resisting doorset material is removed when concealed closers are mortised into the door leaf. The intumescent gasket set will provide the additional performance that is required to protect the door from integrity failure during fire conditions.

It is particularly important with these closers to check that the details of the fire test certification are relevant to your intended door application.

Closer adjustments

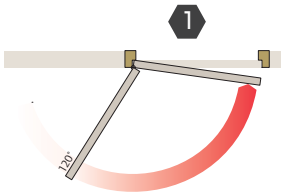
Adjustable Closing Power

EN 2 - 4 power level adjustment.



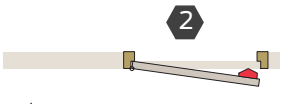
Adjustable Closing Speed

Adjustable from 120° opening through to the final 7°.



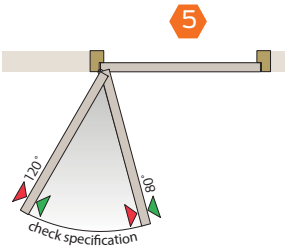
Adjustable Latch Action

The speed of closing in the last 7° can be adjusted to overcome seals and latches.



Adjustable Hold-Open

Mechanical hold-open option is available to hold the door in the open position (see below).



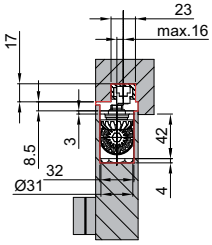
Mechanical Hold Open Unit

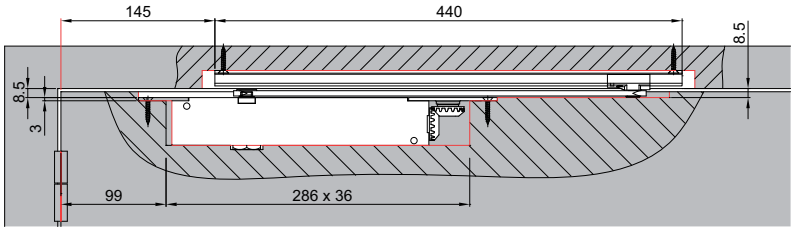
The hold open unit is achieved by use of a conversion kit which can be installed into the slide track of the mechanical closers in place of the standard pivot block. It enables doors to be securely held in the open position at the required pre-set angle (adjustable on installation from 80° to 120° depending on model and the mounting application).

The hold open facility can be easily released.

Conversion Kit reference **1.07209.000**

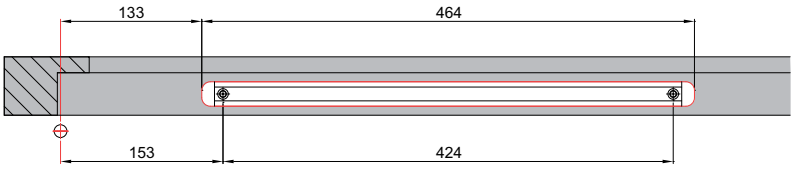
Please note, mechanical hold open is not permitted on fire door applications.



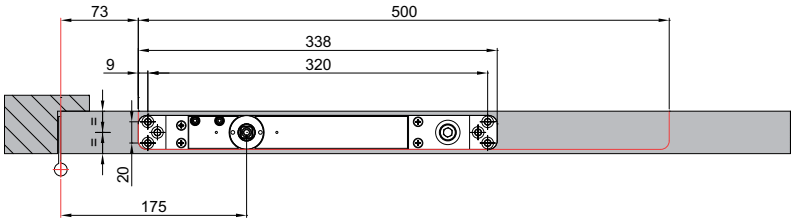


Door Mounted

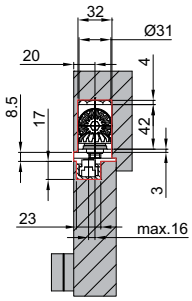
With the closer body mounted in the top of the door leaf and the slide track in the underside of the transom or head frame.

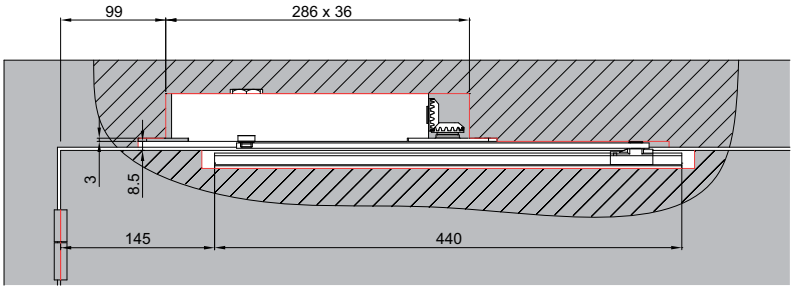


view of underside of transom



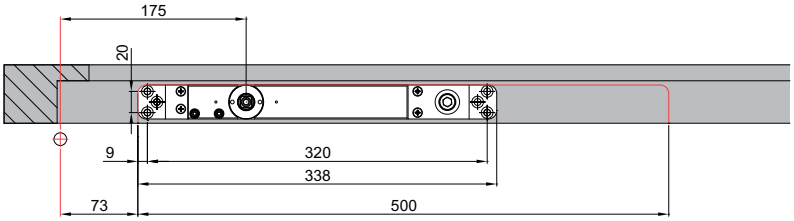
view of top of door leaf



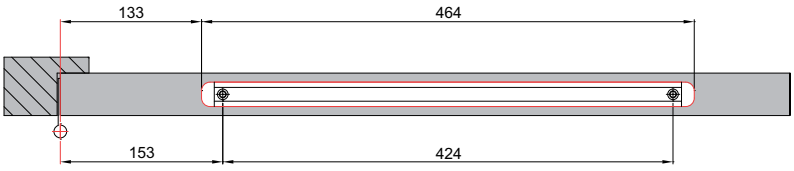


Transom Mounted

With the closer body mounted in the underside of the transom and the slide track in the top of the door.

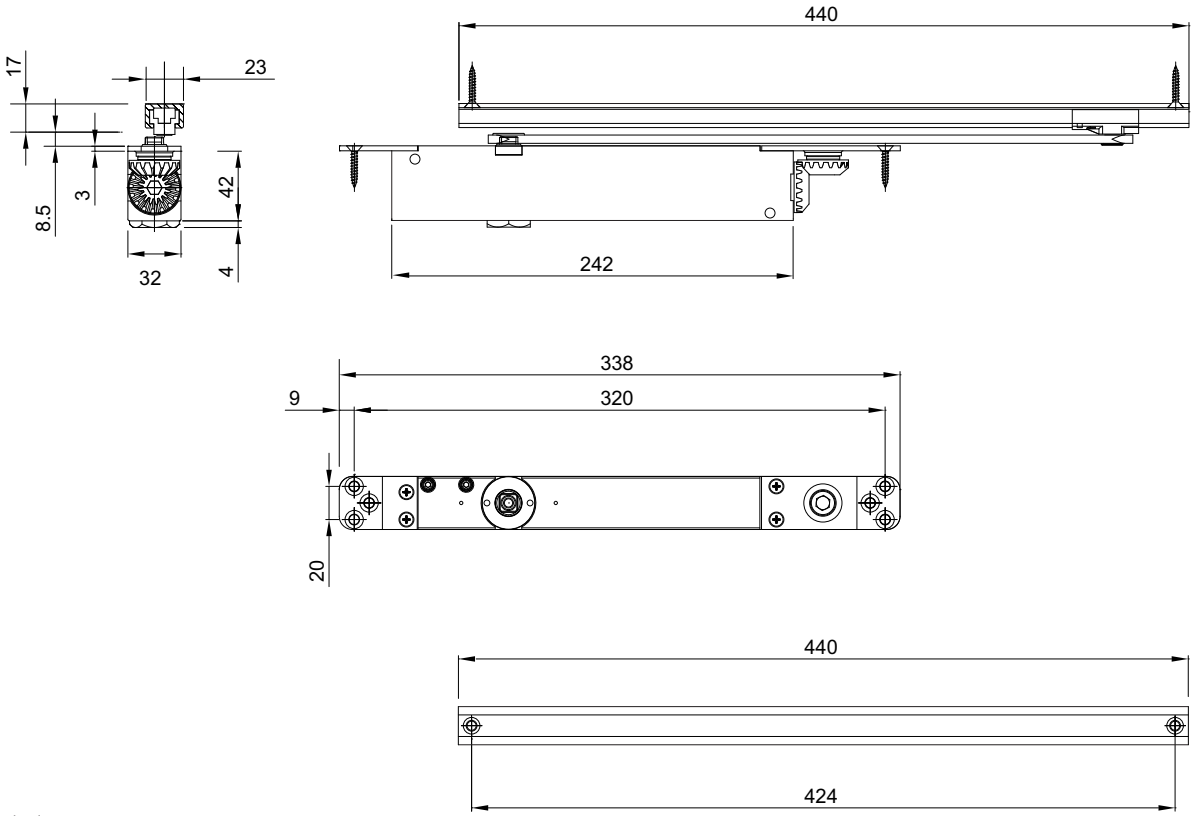


view of underside of transom



view of top of door leaf

CISA Series D8200 - Specification



Tutte le dimensioni sono espresse in mm

Specification

The CISA D8200 Series is CE marked to EN 1154 (performance) and certified to EN 1634-1 (fire).

- Concealed door closer to EN 1154.
- Adjustable EN power sizes 2 to 4.
- CE marked.
- Extruded aluminium body with cam action technology.
- Power adjustment by regulator.
- Adjustable closing speed and latch action.
- Optional cushioning stop (Ref: **1.07209.010**).
- Slimline aluminium slide track.
- 10 year performance guarantee.

For declaration of performance go to:
www.cisa.com

Product features		**Product reference**
EN Closer size	max. door size [width - weight]	**1.D8200**
1	750mm - 20kg	
2	850mm - 40kg	■
3	950mm - 60kg	■
4	1100mm - 80kg	■
5	1250mm - 100kg	
6	1400mm - 120kg	
CE marked and EN 1154 compliant		■
Variable closing power EN size		2 - 4
Min. door thickness for FD30 doors		44mm
Max. angle of opening		120°
Separate closing speed & latch action adjustment		■
Adjustable backcheck		
In-built temperature compensation		■
Cushion stop		□
Hold open facility		□
Arm & track finish		Silver, SS or PS
Dimensions (L x D x H mm)		242 x 42 x 32
Channel/slide arm		440 x 17
Warranty period		2 year
CE Classification		3 8 2-4 1 1 3

■ Standard

□ Su richiesta