

axis

Keylex Digital Locks

including BS8607: 2014 certified locks

for Specifiers, End Users & Door Hardware Specialists

Uniclass	EPIC
L418:N544	D18:Y442
CU/SIB	
(31.59)	X (U47)

Introducing :

Keylex 2100 & Keylex 800 Models
Newly certified to BS 8607: 2014



100021-2-V1

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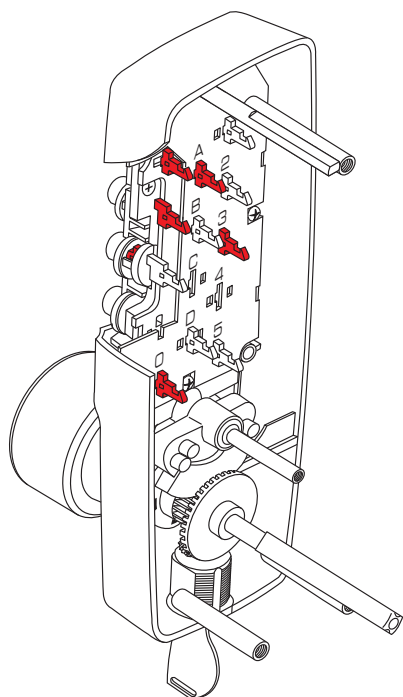
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Important note

All drawings shown in this brochure are for illustrative purposes only.

Introduction to the range

keylex

Solutions

In almost all security and access control situations, it is a requirement of authorized users that they have the facility to open the door from a point close at hand. The Axis range of digital locks addresses this requirement since every mechanical lock within the range combines the locking of the door with the means of override.

All our mechanical digital locks incorporate robust proven lock cases and latches and are designed for doors where authorized users are issued with a common code.



Compatibility from a Complete Package

Hardware products selected for a particular door are very often selected from different sources. This is a perfectly acceptable practice provided it is remembered that, where any two items have to work together, they must be compatible. If they are not, the system will be very likely to fail and the problem of having to establish supplier responsibility will be immense. Axis offers a complete range of compatible hardware items from which a properly matched successful door control package can be selected with total confidence.

Performance, Strength & Versatility

The Axis range of digital locks has been chosen not just because it will outlast and outperform anything available on the market but also because it can be used successfully with other building management systems.

Technical & Specification Services

Axis offers a free technical specification and advisory service to assist you in the correct choice of Keylex hardware. We keep substantial stocks of most products. Our team of trained specifiers will discuss problems, offer guidance, make recommendations and, most importantly, help on site if difficulties should occur.

Product Portfolio

Axis has developed a range of solutions to rival any currently available on the UK market. We employ professional technical consultants capable of supporting some of the most sophisticated (and often simple) solutions. Our range of Keylex hardware is summarized in this brochure.

Keylex Hardware - Levels of Security and Performance

Keyless access has many advantages. The simple entry of the correct code at the keypad unlocks the door and, because there are no keys to be stolen or lost, security is not at risk and the expense of producing and accounting for large numbers of keys is saved. Digital locks can be used on any door where access control is a requirement. Correct lock specification is determined, in the main, by the desired level of security.

Mechanical Access

Mechanical digital locks have been a part of the Axis product portfolio for many years. During this time we have developed and improved the range to include simplistic digital technology offering reliable security at 4 different levels.

Heavy Duty/High Security - REL.K2100 Keylex Mechanical Digital Lock

- Best suited to external doors requiring a heavy duty solution where final security is a requirement. The robust proven design offers the user up to 16,000 possible combination settings for additional peace of mind

Standard Duty/High Security - REL.K700 Keylex Mechanical Digital Lock

- Best suited to external doors and gives the flexibility offered by the inclusion of a mortice sash lock or multi-point lock. This model is designed for narrow stile, standard duty, high security situations where Euro profile key override is an additional requirement

Standard Duty/Medium Security - REL.K800 Keylex Mechanical Digital Lock

- Best suited to standard duty situations on internal doors where a medium level of security is a requirement with optional key override

Standard Duty/Low Security - REL.K500 Keylex Mechanical Digital Lock

- Best suited to standard duty situations on internal doors where a low level of security is a requirement

Tel: 01604 212500
Fax 01604 212495

REL.K2100K -

Standard Model with Mortice Double Throw Deadlocking Latch

Use the **Keylex 2100K** on all heavy duty, high security external door installations and on any door where heavy traffic or extreme use and abuse can be expected. This includes all military, police and fire service installations.

The proven heavy duty design, with its built-in clutch mechanism protecting the lock furniture, will withstand all but the most violent attack and can be expected to give many years' service if specified and maintained correctly.

Standard Features & Benefits

- **Heavy duty mechanism -**
Allows many hundreds of operations per day
- **Entirely mechanical operation -**
No electronics or electrical wiring involved
- **Allows code combinations of up to 14 buttons -**
Over 16,000 selectable code permutations (recommended 3 to 6 digit codes)
- **Code scramble -**
Allows all codes to be entered in any order
- **Slipping clutch mechanism -**
Nullifies forced attack or vandalism from the outside
- **Passage function -**
Allows free passage from both sides at code users' discretion
- **Brushed stainless steel buttons -**
Will not indicate usage
- **Free exit -**
Provides escape from the inside, without code entry, regardless of the lock status



Double Throw Dead Lock Function

This lock utilizes a double throw deadlocking latch that locks the door every time the door closes.

An authorized code is required to override the lock from the outside unless the passage function is set to 'free' or unless the optional on-board key override facility is available in which case the key will override any pre-set code. The door is always 'free from fixings' for immediate egress from the inside.



REL.K2100.LATCH
76mm backset -
60mm optional.

REL.K2100KL.SASH -

Option with Mortice Cylinder Sash Lock Case & Euro Profile Key Override

Use the **Keylex 2100KL.SASH** on all high security external door installations and on any door where heavy traffic or extreme use and abuse can be expected. This includes all military, police and fire service installations.

The proven heavy duty design, with its built-in clutch mechanism protecting the lock furniture, will withstand all but the most violent attack and can be expected to give many years' service if specified and maintained correctly.

Standard Features & Benefits

- **High quality mortice cylinder sash lock case -**
Compatible with all Euro profile cylinder options
- **Key override -**
Allows suited key holder access in all instances without prior knowledge of the user code
- **Heavy duty mechanism -**
Allows many hundreds of operations per day
- **Entirely mechanical operation -**
No electronics involved or electrical wiring involved
- **Allows code combinations of up to 14 buttons -**
Over 16,000 selectable code permutations (recommended 3 to 6 digit codes)
- **Code scramble -**
Allows all codes to be entered in any order
- **Slipping clutch mechanism -**
Nullifies forced attack or vandalism from the outside
- **Passage function -**
Allows free passage from both sides at code users' discretion
- **Brushed stainless steel buttons -**
Will not indicate usage
- **Free exit -**
Provides escape from the inside, without code entry, regardless of the lock status



Sash Lock Function

This lock utilizes a standard sash lock function that locks the door on the latch every time the door closes.

An authorized code is required to override the latch from the outside unless the passage function is set to 'free' or unless the key override facility is used in which case the key will override any pre-set code.

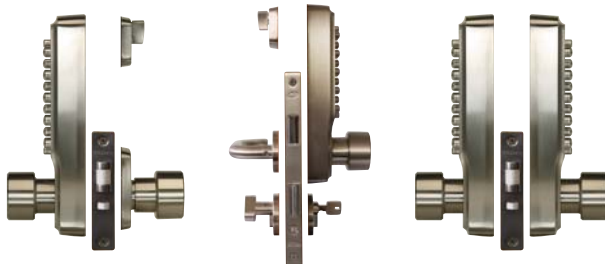
Similarly the key will override the deadbolt and the latch in sequence if the deadbolt is thrown. The door is always 'free from fixings' for immediate egress from the inside if a cylinder & turn combination is used to control the deadbolt.



REL.K2100.SASH
60mm backset only.

Optional Features & Benefits

- **Key override** - On board cylinder allows key holder access in all instances without prior knowledge of the user code (standard model only)
- **Rebate kits** - Two part rebate kits are available for rebates @ 12.5mm and 25mm - with certain sash lock or night latch choices (refer to the sales office)
- **Extended door kits** - Factory fitted modifications including extended fixings, spindles and free passage turns to suit doors up to 75mm thick (standard & sash lock models)
- **Back-to-back** - A factory modification offering bi-directional coded access control (standard model only)
- **Lever Operation to both Sides** - Preferable where potential knuckle burring is a possibility (standard & sash lock models)



REL.K2100K
Standard model with mortise double throw deadlocking latch



REL.K2100KL.SASH
Option with mortise cylinder sash lock case & Euro profile key override



REL.K2100B
Option with mortise double throw deadlocking latch back-to-back

Suitability

The **Keylex 2100** lock body and internal mechanism construction is cast zinc and solid brass with stainless steel code buttons and is suitable for use on external perimeter doors including gates & all internal doors -

Timber
Aluminium
Steel
PVCu (See **REL.K700M** for Multi-Point Version - pages 8 & 9)
Composite

The **Keylex 2100** suits door thicknesses between 30mm and 45mm standard. Please advise all door thicknesses in excess of 45mm.

The **Keylex 2100** suits minimum clear stile widths of 114mm when used with the standard latch bolt (backset length 76mm). This reduces to 98mm when used with the optional latch bolt or sash lock - each with a 60mm backset length.

NB - Stop depths may restrict suitability.

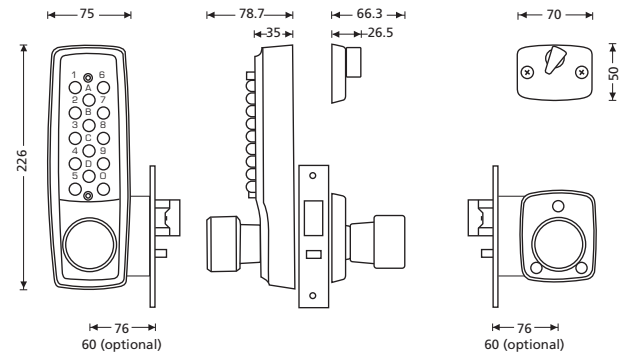
Important Note

The inside lever on the **REL.K2100KL** is necessarily handed and will be set accordingly before despatch.

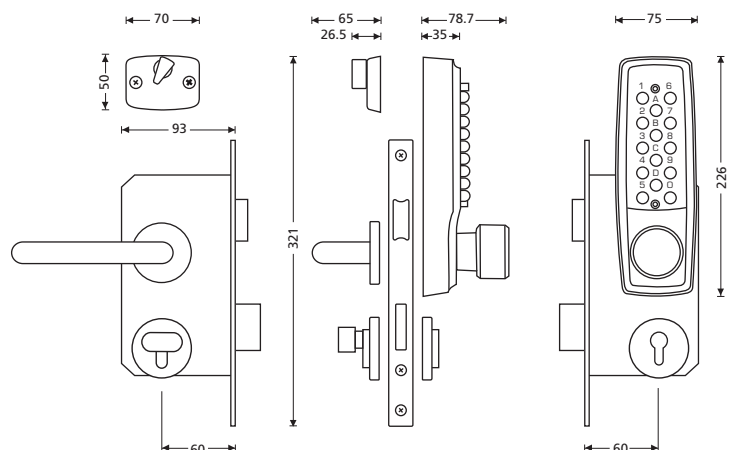
See **General Information - Handing Locks (& Doors)** on page 20.

Critical Dimensions

REL.K2100K Standard Model with Mortise Double Throw Deadlocking Latch



REL.K2100KL.SASH Option with Mortise Cylinder Sash Lock Case & Euro Profile Key Override



How to Specify or Order

Part #	Description
REL.K2100K	Round Knob Furniture to Both Sides
Suffix .76 or .60	.76 = 76mm Backset .60 = 60mm Backset
Suffix .KO	Add to denote on-board Key Override
REL.K2100KL.SASH	Split Design w. Return to Door Lever Inside
Suffix .60	60mm Backset Only
Suffix .KO	Key Override is the Default Option

Finishes

Standard Model and Sash Lock Version Lock Body Only
SC - Silver (Satin Chrome effect) with Stainless Steel Buttons
AB - Antique Brass with Stainless Steel Buttons

Sash Lock Version Inside Lever and Escutcheons Only
US32D - Satin Stainless Steel

REL.K700 -

Model Prepared for European Style Cylinder Lock Cases

Use the **Keylex 700** on all standard duty, high security external door installations and on any door where a flexible Euro profile key system is required. Always choose the **REL.K2100K** option for military, police and fire service installations.

The narrow stile **Keylex 700** design, with its built-in clutch mechanism protecting the lock furniture, will suit all stile widths down to 45mm and is particularly suited for use on aluminium and hollow metal door sections.

The **Keylex 700** can be expected to give many years' service if specified and maintained correctly.

Standard Features & Benefits

- **Standard duty mechanism -**
Allows many hundreds of operations per day
- **Entirely mechanical operation -**
No electronics or electrical wiring involved
- **Allows code combinations of up to 12 buttons -**
Over 4,000 selectable code permutations (recommended 3 to 6 digit codes)
- **Code scramble -**
Allows all codes to be entered in any order
- **Slipping clutch mechanism -**
Nullifies forced attack or vandalism from the outside
- **Brushed stainless steel buttons -**
Will not indicate usage
- **Free exit -**
See function descriptions below for details



Sash Lock Function

This function utilizes a standard sash lock that locks the door on the latch every time the door closes.

An authorized code is required to override the latch from the outside unless the 'optional' passage function is set to 'free' or unless the key override facility is used; in which case the key will override any pre-set code.

Similarly the key will override the deadbolt and the latch in sequence if the dead bolt is thrown. The door is always 'free from fixings' for immediate egress from the inside if a cylinder & turn combination is used to control the deadbolt.

See also **Important Note** on page 7.



REL.9414
Euro Profile
Sash Lock
w. 60mm Backset

Suitability

The **Keylex 700** lock body and internal mechanism construction is cast zinc and solid brass with stainless steel code buttons and is suitable for use on external perimeter doors & all internal doors -

Timber
Aluminium
Steel
PVCu (See **REL.K700M** for Multi-Point Version - pages 8 & 9)
Composite

The **Keylex 700** suits door thicknesses between 30mm and 50mm standard. Please advise all door thicknesses in excess of 50mm.

The **Keylex 700** suits clear stile widths of 70mm when used with the standard sash lock with a backset length of 50mm. This reduces to a minimum stile width of 45mm when used with the optional sash lock with a 25mm backset length.

NB - Stop depths may restrict suitability.

Night Latch Function

A cylinder night latch function can be used where security levels are not paramount. This option locks the door on the latch every time the door closes but does not offer a dead bolt back up.



REL.9412.1.60
Euro Profile Night Latch
w. 60mm Backset

An authorized code is required to override the latch from the outside unless the 'optional' passage function is set to 'free' or unless the key override facility is used in which case the key will override any pre-set code. The door is always 'free from fixings' for immediate egress from the inside via the lever.

See also **Important Note** on page 7.

Application Restriction

Do not use this product on military, police, fire service and other installations where heavy handed use/abuse can be expected. Specify **REL.K2100** series.

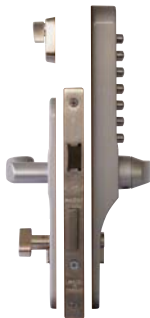
Some manufacturers' lock cases are very heavily sprung and will exert extreme forces at the lever mounting assembly, occasionally resulting in failure. Wherever possible this scenario should be avoided. Please choose your lock case with care. The inclusion of incompatible lock cases will void any warranty. If in doubt, please consult the sales office.

Optional Features & Benefits

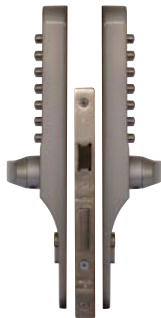
- **Passage function** - Allows free passage from both sides at code users' discretion
- **Key override** - Allows key holder access in all instances without prior knowledge of the user code - assumes standard sash lock operation. Escutcheons are prepared as standard to suit Euro profile cylinders with oval cylinder preparation to special order
- **Rebate kits** - Two part rebate kits are available for rebates @ 12.5mm and 25mm with certain sash lock or night latch choices (refer to the sales office)
- **Extended door kits** - Factory fitted modifications including extended fixings, spindles and free passage turns to suit doors up to 75mm thick
- **Back-to-back** - A factory modification offering bi-directional coded access control



REL.K700
Standard model with sash lock 50mm backset- showing Euro profile cylinder & turn



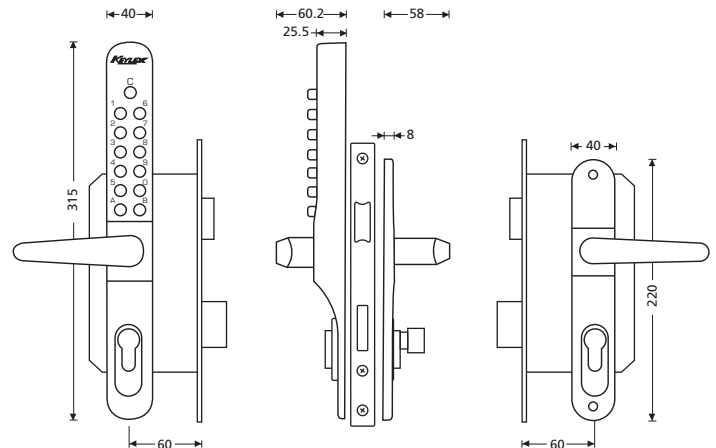
REL.K700FP
Version with passage function & optional narrow stile sash lock case 25/30/35/40/45mm backset - showing Euro profile cylinder & turn



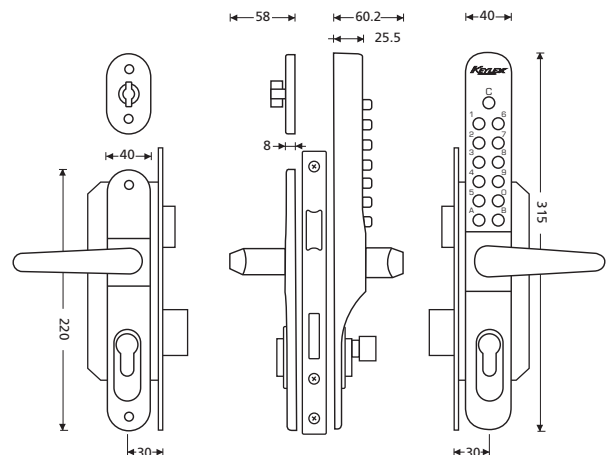
REL.K700B
Back-to-back option with sash lock 50mm backset- showing Euro profile double cylinder

Critical Dimensions

REL.K700 Model prepared for Sash Lock Case 60mm Backset



REL.K700FP Option with Passage Function* prepared for Narrow Stile Sash Lock Case 25/30/35/40/45mm Backset



* Passage function is available for use with any suitable lock case including the version described at the top of this column.

How to Specify or Order

Part #	Description
REL.K700	Mechanical Digital Lock w. Levers Both Sides (less lock case)
REL.K700FP	Mechanical Digital Lock w. Free Passage & Levers Both Sides (less lock case)
Suffix.70-72	Escutcheon Set for Cylinder Lock Cases w. 70-72mm Centres
Suffix.90-92	Escutcheon Set for Cylinder Lock Cases w. 90-92mm Centres
Suffix.BLANK	Escutcheon Set for Installations Without Cylinders
REL.LOCKCASE.50MM	Euro Profile Cylinder Sash Lock w. 70-72mm Centres. 50mm Backset
REL.LOCKCASE(**MM)	Euro Profile Cylinder Sash Lock w. 92mm Centres. 25/30/35/40/45mm Backset

Important Note

All **Keylex 700** models are supplied complete with outside lock body, inside lever furniture on back plate and escutcheons (x2) - but less the lock case. Lock cases must be ordered separately.

Cylinders are not supplied unless specifically requested.

Finishes

- SC** - Silver with Stainless Steel Buttons
- DB** - Dark Bronze with Stainless Steel Buttons
- NP** - Nickel Plate Forend & Strike (all lock cases)

REL.K700M -

Model Prepared for Multi-Point Locks

Use the **Keylex 700M** on all residential external door installations where a conventional multi-point lock is to be used. The narrow stile **Keylex 700M** design, with its built-in clutch mechanism protecting the lock furniture, is particularly suited for use on PVCu, aluminium and hollow metal door sections.

Clear stile widths will dictate the suitability of the chosen lock case when combined with the **Keylex 700M** narrow style lock body.

The **Keylex 700M** can be expected to give many years' service if specified and maintained correctly

Standard Features & Benefits

- **Standard duty mechanism -**
Allows many hundreds of operations per day
- **Entirely mechanical operation -**
No electronics or electrical wiring involved
- **Allows code combinations of up to 12 buttons -**
Over 4,000 selectable code permutations (recommended 3 to 6 digit codes)
- **Code scramble -**
Allows all codes to be entered in any order
- **Slipping clutch mechanism -**
Nullifies forced attack or vandalism from the outside
- **Brushed stainless steel buttons -**
Will not indicate usage
- **Key override -**
Allows key holder access in all instances without prior knowledge of the user code - assumes Multi-Point nightlatch mode (see opposite).
Escutcheons are prepared as standard to suit Euro profile cylinders with alternative cylinder style preparation to special order

Optional Features & Benefits

- **Extended door kits -**
Factory fitted modifications including extended fixings, spindles and free passage turns to suit doors up to 75mm thick

Application Restriction

Do not use this product on military, police, fire service and other installations where heavy handed use/abuse can be expected. Specify **REL.K2100** series.

Suitability

The **Keylex 700M** lock body and internal mechanism construction is cast zinc and solid brass with stainless steel code buttons and is suitable for use on external perimeter doors & all internal doors -

Timber
Aluminium
Steel
PVCu
Composite

The **Keylex 700M** suits door thicknesses between 30mm and 50mm standard. Please advise all door thicknesses in excess of 50mm.

The **Keylex 700M** suits minimum clear stile widths of 50mm when used with a standard multi-point lock with a backset length of 30mm.

NB - Stop depths may restrict suitability.



Multi-Point Lock Function

1. Nightlatch Mode

The door is locked on the latch only (i.e. bolts not thrown).
The inside lever is always operable for egress.
The outside lever is locked and can be overridden by the code or by the key.

2. Deadbolt Mode

Bolts cannot be thrown without first lifting the lever inside or outside. The outside lever cannot be lifted without first entering a valid code. The inside lever is always operable for egress (but see also double locking below). The outside lever is only operable after entry of an authorized code. The key will not override a locked door whilst the bolts are shot.

The bolt can be double locked by a turn of the key or the thumb turn - in which case this action must be reversed before the code will operate the lock. This can be achieved either via the key from the outside or a turn from the inside.

Important Note

All **Keylex 700M** models are supplied complete with outside lock body, inside lever furniture on back plate and escutcheons (x2) - but less the Multi-Point lock case. All lock cases must be ordered separately.

Cylinders are not supplied unless specifically requested.

Multi-Point Locks -

Compatibility with the REL.K700M

Multi-Point locks are used widely in both commercial and residential situations and offer increased security over conventional rim or mortice locks when used with a suitably high specification Euro profile cylinder or 5 lever system. Just about every PVCu residential door installation employs a Multi-Point lock of one type or another - a deterrent to most casual burglars.

The introduction of a **Keylex 700M** mechanical digital lock to a door locked via a Multi-Point device actually enhances the security of that door. The 'passage function' of the lock, a standard feature of all Multi-Point locks, is automatically converted to a night latch function since, by default, the external lever can only be operated after entry of a valid code.

Multi-Point locks are available in the U.K. from a very wide range of different manufacturers, with available options too numerous to list in this brochure. However, some basic principles do apply and these are listed below.

Spindles & Followers

The **Keylex 700M** is supplied with a 7mm square spindle (and 8mm converter) and suits all Multi-Point lock followers accepting these sizes 'on the square'.

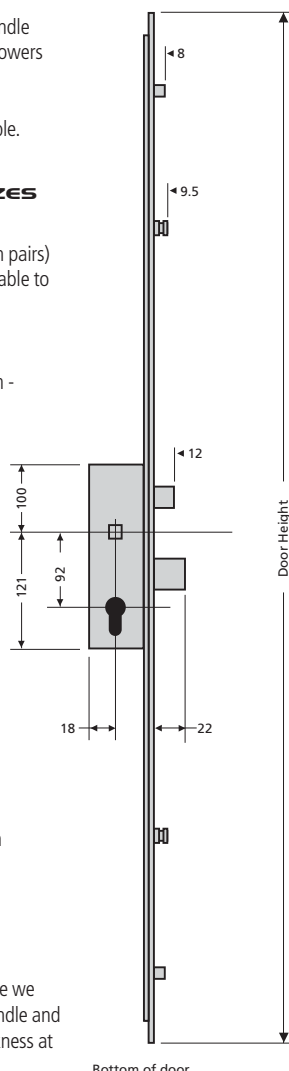
Split spindles for escape lock situations are not available.

Lock Centres & Lock Case Sizes

Euro profile escutcheons are prepared and supplied (in pairs) to suit locks with 92mm centres. Alternatives are available to special order and include oval and 5 lever profiles.

Most lock case sizes are accommodated since the two **Keylex 700M** mounting pillars are spaced @ 290mm - split 160mm/130mm about the spindle.

This drawing illustrates a typical product in the locked position. The positions of the mushrooms and rollers will vary.



Backset Lengths

The narrow stile **Keylex 700M** body easily allows installations with backset lengths down to 30mm - with no upper limit.

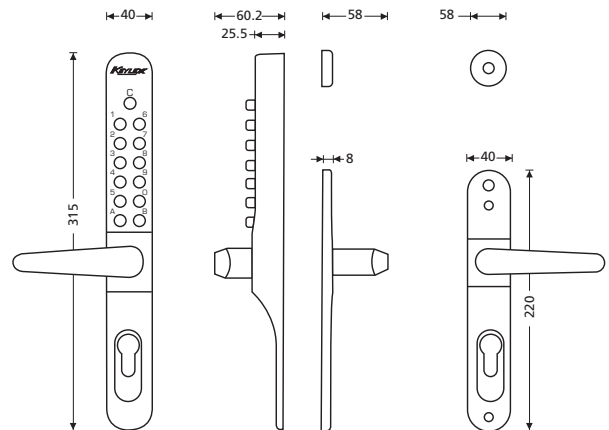
Backset lengths usually vary between 30mm to 45mm in 5mm increments.

Door Thicknesses

Often, PVCu door profiles can exceed 50mm. To ensure we provide the **Keylex 700M** with a sufficiently long spindle and fixings pack it is essential that we know the door thickness at the order placement stage.

Critical Dimensions

REL.K700M Model Prepared for Multi-Point Lock



Cylinder Choice

It is generally accepted that Euro profile cylinders are the most vulnerable part of the installation and are at risk from tools such as drills, pliers, hammers and other lock-forcing implements.

It is paramount, where security is the main consideration, that cylinders offering Grade 2 attack resistance (per EN 1303:2005) are specified. Grade 2 is the highest grade available and ensures resistance against:

- Pushing (protection via the cylinder cam)
- Drilling
- Picking
- Snapping (or Pulling)
- Bumping

Axis can specify cylinders for all situations and requirements, including suited systems, all with EN 1303:2005 certification.

How to Specify or Order

Part #	Description
REL.K700M.92	Mechanical Digital Lock w. Levers Both Sides (less lock case)

Finishes

- SC - Silver with Stainless Steel Buttons
- DB - Dark Bronze with Stainless Steel Buttons

REL.K800 -

Model with Mortice Double Throw Deadlocking Latch

Use the **Keylex 800** on all standard duty, medium security internal door installations. Always choose the **REL.K2100K** option for military, police and fire service installations. The narrow stile **Keylex 800** design, with its built-in clutch mechanism protecting the lock furniture, will suit all clear stile widths down to 80mm and is particularly suited for use on timber and composite doors.

The **Keylex 800** can be expected to give many years' service if specified and maintained correctly.

Standard Features & Benefits

- **Standard duty mechanism -**
Allows many hundreds of operations per day
- **Entirely mechanical operation -**
No electronics or electrical wiring involved
- **Allows code combinations of up to 12 buttons -**
Over 4,000 selectable code permutations (recommended 3 to 6 digit codes)
- **Code scramble -**
Allows all codes to be entered in any order
- **Slipping clutch mechanism -**
Nullifies forced attack or vandalism from the outside
- **Brushed stainless steel buttons -**
Will not indicate usage
- **Free Exit -**
Provides escape from the inside, without code entry, regardless of the lock status
- **Passage Function -**
Allows free passage from both sides at code users' discretion

Double Throw Dead Lock Function

This lock utilizes a double throw deadlocking latch that locks the door every time the door closes.

An authorized code is required to override the lock from the outside unless the passage function is set to 'free' or unless the optional on-board key override facility is available in which case the key will override any pre-set code. The door is always 'free from fixings' for immediate egress from the inside.

Suitability

The **Keylex 800** lock body and internal mechanism construction is cast zinc and solid brass with stainless steel code buttons and is suitable for use on all internal doors -

Timber
Aluminium
Steel
PVCu (See **REL.K700M** for Multi-Point Version - pages 8 & 9)
Composite

The **Keylex 800** suits door thicknesses between 30mm and 45mm standard. Please advise all door thicknesses in excess of 45mm.

The **Keylex 800** suits minimum clear stile widths of 80mm when used with the standard latch bolt backset length of 60mm.

NB - Stop depths may restrict suitability.



Optional On-board Key Override

The **Keylex 800** has an optional on-board key override feature incorporating a 'dimple' key profile cylinder.

The large bow key (2 supplied normally per lock) will override any code and works directly on the internal mechanism to drive the spindle and retract the latch.



Where multiple door control is desirable we offer a 'keyed alike' or 'suited' solution (see opposite).

Keyed alike systems are available from stock. However, master keyed systems are built to special order in the factory and extended lead times should be taken into account at the planning stage.



REL.K800.LATCH
76mm backset -
60mm optional.

Application Restriction

Do not use this product on military, police, fire service and other installations where heavy handed use/abuse can be expected. Specify **REL.K2100** series.

Optional Features & Benefits

- **Key override -**
On board cylinder allows suited key holder access in all instances without prior knowledge of the user code
- **Keyed alike -**
Allows single key override to multiple locks
- **Extended door kits -**
Factory fitted modifications including extended fixings, spindles and free passage turns to suit doors up to 75mm thick



REL.K800

Standard model with mortice double throw deadlocking latch - showing on-board key override option

How to Specify or Order

Part #	Description
REL.K800	Mechanical Digital Lock w. Levers Both Sides
REL.K800.KO	Mechanical Digital Lock w. Key Override & Levers Both Sides
Suffix.KA	Key Override Cylinders - Keyed Alike

Finishes

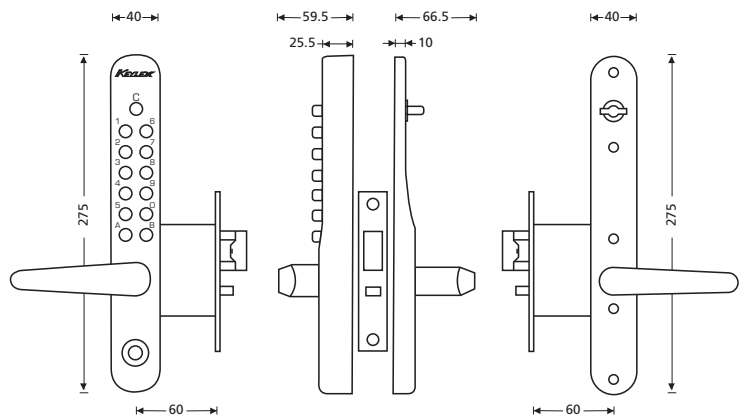
- SC - Silver with Stainless Steel Buttons
DB - Dark Bronze with Stainless Steel Buttons

Important Note

All **Keylex 800** models are supplied complete with outside lock body and inside lever furniture on back plate with free passage turn. The mortice double throw deadlocking latch is supplied with the lock and is available with a 60mm backset only.

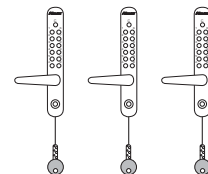
Critical Dimensions

REL.K800 Model with Mortice Double Throw Deadlocking Latch

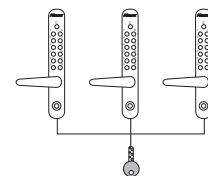


Organizing Key Override Systems

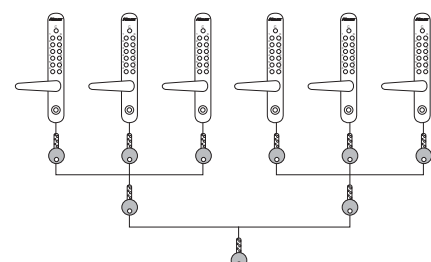
- **Keyed to differ -**
Each cylinder has a unique key. Key holders must be in possession of that key to override the code



- **Keyed alike -**
Cylinders are provided in groups. Keyholders may override codes on common locks



- **Master key system -**
The master key overrides the code on all locks, sub-master keys override codes in groups, differ keys override specific locks



REL.K500 -

Standard Model with Adjustable Tubular Deadlocking Latch

Use the **Keylex 500** on all standard duty, low security internal door installations. Always choose the **REL.K2100K** option for military, police and fire service installations. The narrow stile **Keylex 500** design, with its built-in clutch mechanism protecting the lock furniture, will suit all clear stile widths down to 80mm and is particularly suited for use on timber and composite doors.

The **Keylex 500** can be expected to give many years' service if specified and maintained correctly.

Standard Features & Benefits

- **Standard duty mechanism -**
Allows many hundreds of operations per day
- **Entirely mechanical operation -**
No electronics or electrical wiring involved
- **Allows code combinations of up to 12 buttons -**
Over 4,000 selectable code permutations (recommended 3 to 6 digit codes)
- **Code scramble -**
Allows all codes to be entered in any order
- **Slipping clutch mechanism -**
Nullifies forced attack or vandalism from the outside (excludes rim version)
- **Brushed stainless steel buttons -**
Will not indicate usage
- **Free Exit -**
Provides escape from the inside, without code entry, regardless of the lock status
- **Passage Function -**
Allows free passage from both sides at code users' discretion (excludes rim version - but see function description)

Adjustable Tubular Deadlocking Latch Function

This lock utilizes an adjustable tubular deadlocking latch (adjustable backset length between 60mm and 70mm) that locks the door every time the door closes.

An authorized code is required to override the lock from the outside unless the passage function is set to 'free'.

The door is always 'free from fixings' for immediate egress from the inside.



REL.K500.LATCH
60mm backset
& 70mm backset
adjustable.

Suitability

The **Keylex 500** lock body and internal mechanism construction is cast zinc and solid brass with stainless steel code buttons and is suitable for use on all internal doors -

Timber
Aluminium
Steel
PVCu (See **REL.K700M** for Multi-Point Version - pages 8 & 9)
Composite

The **Keylex 500** suits door thicknesses between 30mm and 50mm standard. Please advise all door thicknesses in excess of 50mm.

The **Keylex 500** suits minimum clear stile widths of 80mm when used with the standard tubular deadlocking latch - (adjustable backset length between 60mm and 70mm).

NB - Stop depths may restrict suitability.

Rim Slide Bolt Function

Use this option where the door and frame design dictates that a mortice latch becomes impractical - e.g. where glazed doors will not allow a mortice.

This lock utilizes a solid rim mounted slide bolt - necessarily operated by a round knob outside with a turn snib on the inside. An authorized code is required to override the lock from the outside - passage function is achieved via the inside turn snib allowing the door to be left unlocked if required.

The door is always 'free from fixings' for immediate egress from the inside.



REL.K500.RIM

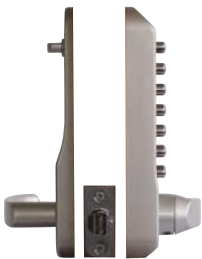
The backset length of the Rim Slide Bolt lock is not fixed but is adjustable. This dimension is dictated by the door and frame detail. Doors and frames do not need to be flush on the bolt side since the standard strike will accommodate jamb reveals when turned through 90 degrees.

Application Restriction

Do not use this product on military, police, fire service and other installations where heavy handed use/abuse can be expected. Specify **REL.K2100** series.

Optional Features & Benefits

- **Extended door kits -**
Factory fitted modifications including extended fixings, spindles and free passage turns to suit doors up to 75mm thick



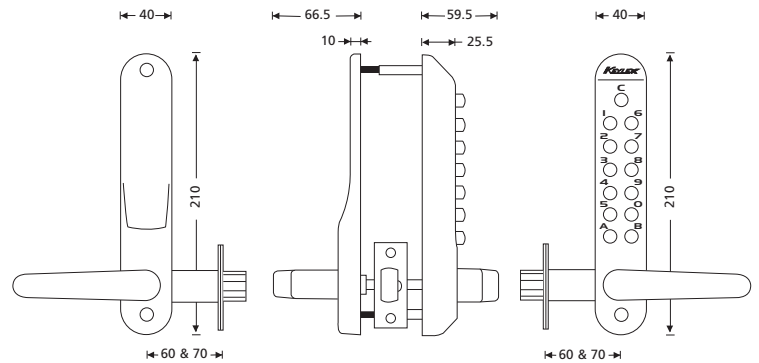
REL.K500
Standard model with adjustable tubular deadlocking latch



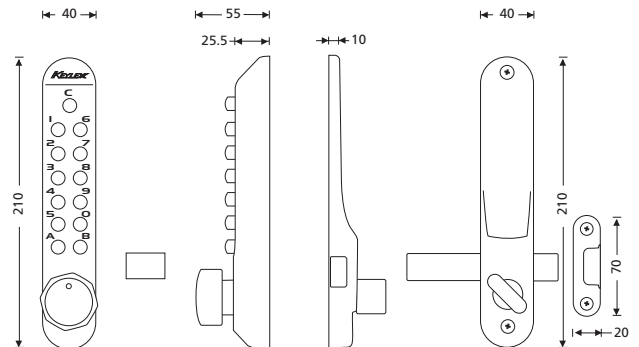
REL.K500.RIM
Option with rim slide bolt

Critical Dimensions

REL.K500 Standard Model with Adjustable Tubular Deadlocking Latch



REL.K500.RIM Option with Rim Slide Bolt



How to Specify or Order

Part #	Description
REL.K500	Mechanical Digital Lock w. Levers Both Sides
REL.500.RIM	Mechanical Digital Lock w. Knob & Slide Bolt

Finishes

- SC - Silver with Stainless Steel Buttons
- DB - Dark Bronze with Stainless Steel Buttons

Important Note

All standard **Keylex 500** models are supplied complete with outside lock body and inside lever furniture on back plate with free passage turn. The adjustable tubular deadlocking latch is supplied with the lock and provides backset lengths of 60mm or 70mm.

All optional **Keylex 500.RIM** models are supplied complete with outside lock body and inside turn snib on back plate. The slide bolt is an integral part of the inside furniture.

Remote Unlocking

Where remote unlocking of doors is a requirement then it is possible to combine the tubular deadlocking latch with an electric strike.

The **Keylex 500** is compatible with the **REL.5100** Universal Mortice Electric Strike (see Access Control brochure page 15).

A dual voltage electric strike with FSE fail secure and FS fail safe selectability.

For the full specification including power options and switching options see the Access Control brochure pages 15, 23 & 24.



Finishes

- REL.5100-689 Aluminium
- REL.5100-622 Black
- REL.5100-625 Dark Bronze

Status Monitoring (not available on this model)

REL.K2100 & REL.K700

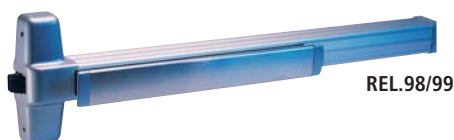
Access Control at Escape Doors - Basic Principles

Where coded access control is a requirement at escape doors, the introduction of a mechanical digital lock offers an affordable solution.

In these situations authorized users, in possession of a common code, have the facility to open the door from the outside without the use of a key. Locks are prepared accordingly to provide a means of override to just about any escape device.

REL.K2100 with Von Duprin 22 & 98/99 Touchbar Range

Use the **Keylex 2100** on all escape door installations where heavy traffic or extreme use and abuse can be expected. The proven design, with its built-in slipping clutch mechanism, will withstand all but the most violent attacks and can be expected to give many years service if specified and maintained correctly.



REL.98/99

Compatibility & Certification

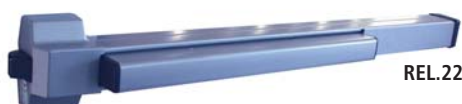
The standard conversion allows use with both the **REL.22** Series and the **REL.98/99** Series of escape devices. It is recommended that operation is restricted to the rim exit device application when using the **REL.K2100K** knob version. The lever version **REL.K2100L** should be used with the surface mounted vertical rod and three point latching device options.

See page 20 for information on EC Certificate of Conformity relating to the use of Keylex Mechanical Digital Locks with Von Duprin Escape Hardware.

REL.K700 with Von Duprin 22 & 98/99 Touchbar Range

Use the **Keylex 700** on all standard duty, high security escape door installations. The 'narrow stile' design, with its built-in slipping clutch mechanism, will suit all stile widths down to 43mm* and is particularly suited for use with aluminium or hollow metal sections.

*However, it should be borne in mind that the centre case size of the escape hardware used will also influence the minimum stile width.



REL.22

Compatibility & Certification

The standard conversion allows use with both the **REL.22** Series and the **REL.98/99** Series of escape devices. The standard lever operation lends itself to use with rim exit devices (single latch operation), surface mounted vertical rod and multi point latching escape device options.

See page 20 for information on EC Certificate of Conformity relating to the use of Keylex Mechanical Digital Locks with Von Duprin Escape Hardware.

Keylex with Briton 560 Push Bar & 570 Touch Bar Range

Conveniently, the **REL.K700** drives both the **560** Push Bar series & **570** Touch Bar series of devices without any modification to the orientation or size of the spindle.



560 Series

These devices are modular panic exit solutions offering a combination of security and safety. The basic device is a single point locking push bar or touch bar. Additional modular locking kits mean these units offer increased flexibility and adaptability to suit individual requirements.



570 Series

Combination with the **Keylex 700** mechanical locking trim provides a secure trim with a strong lever operation, capable of retracting multi point 'Pullman' type latches.

How to specify or order

REL.22/K2100K*	- Rim Exit Device with Knob Trim
REL.22/K2100L*	- Rim Exit Device with Lever Trim
REL.2227/K2100L*	- Surface Mounted Vertical Rod Device with Lever Trim
REL.98/99/K2100K*	- Rim Exit Device with Knob Trim
REL.98/99/K2100L*	- Rim Exit Device with Lever Trim
REL.98/9927/K2100L*	- Surface Mounted Vertical Rod Device with Lever Trim
REL.98/9957/K2100L*	- Three Point Latching Device with Lever Trim
REL.22/K700*	- Rim Exit Device
REL.2227/K700*	- Surface Mounted Vertical Rod Device
REL.98/99/K700*	- Rim Exit Device
REL.98/9927/K700*	- Surface Mounted Vertical Rod Device
REL.98/9957/K700*	- Three Point Latching Device
REL.561/K700	- One Point Locking
REL.562-V/K700	- Two/Three Point Locking
REL.562-S/K700	- Three Point Locking (Side Pullmans)
REL.571/K700	- One Point Locking
REL.572-V/K700	- Two/Three Point Locking
REL.572-S/K700	- Three Point Locking (Side Pullmans)

Finishes (escape hardware only)

SE	- Silver (560 and 570 series only)
SP28(689)	- Sprayed Silver (REL.22 series only)
SP313(695)	- Sprayed Dark Bronze (REL.22 series only)
US28	- Satin Anodized Aluminium (REL.98/99 series only)

* All modifications must be carried out by Axis

REL.K700 Keylex Mechanical Digital Lock - Adams Rite 459I Paddle Handle & Adams Rite 4720 Mortice Dead Latch

459I Paddle Handle

The **459I Paddle Handle** is designed for simple push or pull operation as an alternative to a push bar or touch bar device. The paddle handle controls a mortice dead latch and is compatible with a modified version of the **Keylex 700**.

The push version of the **459I Paddle Handle** should be used with the **4720 Series Dead Latch** and the **8460 Ramp Jaw Strike**.



459I

Standard Features - (Paddle)

- **Device Functions** - Ships ready for all functions;
Push to Left, Push to Right, Pull to Left & Pull to Right
- **Universal** - Non-handed, suits LH & RH doors
- **Escutcheon Size** - 105mm x 34mm x 58.7mm
- **Paddle Size** - 85mm x 125mm for ease of use
- **Spindle** - Heat treated 6.35mm set on the diamond for 44mm doors

How to specify or order

REL.459I/4720/K700* - Paddle Device

Finishes (escape hardware only)

Black	- Black (Escutcheon only)
SAA	- Satin Anodized Aluminium (Paddle only)
DB	- Dark Bronze (Paddle only)

* All modifications must be carried out by Axis

Important Note

Door thicknesses should be advised in all cases. The standard modification suits doors from 44mm to 50mm.

Minimum door thickness is 44mm.

This product does not conform to BS EN 179. For further clarification of certification issues please refer to the sales office.

4720 Heavy Duty Dead Latch

This heavy duty dead latch, for use with hollow metal and timber doors offers flexible traffic control and an excellent level of security. The auxiliary bolt feature deadlocks the latch when the door is closed against the strike. Maximum operational door gap is 5mm. The dead latch operates using the **Keylex 700** from the outside with the **459I Paddle Handle** from the inside.

The latch bolt is reversible and is supplied un-handed unless specified. When used in emergency exit applications with the **459I Paddle Handle**, the assembly must use the **8460 Ramped Jaw Strike**.



REL.459I/4720/K700

Standard Features - (Heavy Duty Dead Latch)

- **Overall Case Size** - 202mm x 31.7mm x 54.4mm suits hollow metal and timber door stiles
- **Universal** - Non-handed, suits LH & RH doors (field adjustable)
- **Backset** - 38.1mm suits narrow stile doors
- **Latch Throw** - 12.7mm
- **Auxiliary Bolt** - ZA-27 Zinc, chrome plated with hardened steel internal pins for assured security
- **Operation** - Authorized code entry enables retraction of the latch bolt via the outside lever. Internal paddle handle is always operable

specification

General Information

Handing Locks(&Doors)

All lock models (with the exception of the **REL.K2100KL.SASH** are 'field reversible' so far as handing is concerned. Therefore, for all but these exceptions, you do not need to specify the hand of the lock when ordering.

Where handing is necessary there are four distinct codes describing four possible applications:

- **LH** Left Hand = Clockwise closing door with the digital keypad on the push side.
- **LHR** Left Hand Reverse = Anti-clockwise closing door with the digital keypad on the pull side.
- **RH** Right Hand = Anti-clockwise closing door with the digital keypad on the push side.
- **RHR** Right Hand Reverse = Clockwise closing door with the digital keypad on the pull side.

The hand of the lock is the same as the hand of the door.
The hand of the rebate kit (if specified) is the same as the hand of the lock.

Rebate Kits

Rebate kits are available only with 60mm backset cylinder sash lock cases and 60mm backset cylinder night latch cases in the following sizes 12.5mm and 25mm

Extra Thick Doors

Extra long fixings, spindle extensions and passage turn extensions are available to suit any door thickness.

Blanking Plates

A blank plate for the passage function facility is available on the all Keylex models where appropriate.

Spy Shields

Where security is paramount and the opportunity for unauthorized observation of code entry exists, it is possible to introduce a spy shield to reduce the chance of code entry copying. Available to special order on all models.

Knurled Knob

The normally smooth knob design on Keylex model **REL.K2100K** can be modified to introduce a knurled or textured finish. This facilitates extra grip for use by the elderly, infirm or operation by those who may have wet hands. Available to special order.

Specification & Available Features		2100	700	700M	800	500		
Security Level	High	●	●	●				
	Medium				●			
	Low					●		
Duty Level	Heavy	●						
	Standard		●	●	●	●		
Location	External/Internal	●	●	●				
	Internal Only				●	●		
Application	Mortice	■	■	●	●	■		
	Rim					▲		
	Back-To-Back	▲	▲					
Furniture	Knob	■				▲		
	Lever	▲	●	●	●	■		
	Knob/Lever	▲						
Backset *(60 and 70mm - model 500)	50mm		▲					
	*60mm	▲			●	●		
	76mm	■						
Euro Profile Cylinder	Specify Format	▲	▲	▲				
Escutcheon Plates	Blank		▲	▲				
	70-72mm		■	▲				
	90-92mm		▲	■				
Key Override	To Differ	▲	▲	▲	▲			
	Keyed Alike	▲	▲	▲	▲			
	Master Keyed	▲	▲	▲	▲			
Door Thickness	<45mm	■			■			
	<50mm		■	■		■		
	<58mm	▲	▲	▲	▲	▲		
	<75mm	▲	▲	▲	▲	▲		
Finish	Silver SC	■	■	■	■	■		
	Antique Brass AB	▲						
	Dark Bronze DB		▲	▲	▲	▲		
Rebate Kit Only with certain lock cases 12.5mm & 25mm	Reversible							
	LH/RHR	▲	▲					
	RH/LHR	▲	▲					
Exit Device Modification	Von Duprin 22	▲	▲					
	Von Duprin 99	▲	▲					
	Briton	▲	▲					
	Dorma	▲	▲					
Passage Function	Standard	■	▲		■	■		
	Blank Plate	▲	▲		▲	▲		
	Removable Key	▲	▲		▲	▲		
Spy Shield	Aluminium	▲	▲	▲	▲	▲		
	Stainless Steel	▲	▲	▲	▲	▲		

Key

Default

You will receive this option unless you specify otherwise

Optional

Specify at order placement



Only

An inherent feature

Digital Locks & Escape Hardware

EC Certificate of Conformity No. 1121-CPD-AAA027

Keylex **REL.K2100** series locks and Keylex **REL.700** series locks are certified to be compliant with the requirements of BS EN 1125:2008 when converted for use with all Von Duprin

REL.99/98/35A/33A/22 Series Escape Devices. Please refer to the Sales Office for further information if required.

Important note - All drawings shown in this brochure are for illustrative purposes only.