



E5 Cam Latches

Overview



Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info **051 4171115** - luca.chiarelli@rivit.it

Modularity and simplicity in action

The *SOUTHCO*® E5 cam latch is a highly modular and easy to configure solution, suitable for a wide range of applications. By changing any of the three basic components (access style driver, latch body or cam) in either geometry or material, the E5 can be easily adjusted to suit most applications.

Product features

- Cost effective, easy to design and install
- Multiple material and access options to suit multiple needs
- Suitable to meet NEMA 4 / IP65 sealing standards
- Corrosion-resistant materials available
- Highly modular and configurable

➤ Match material and finish options for style and functionality requirements

A variety of materials and finishes to complement your application.

Die-cast zinc latch bodies standard finishes:



Chrome plated



Black powder coated

Corrosion resistant materials available



316
Stainless steel



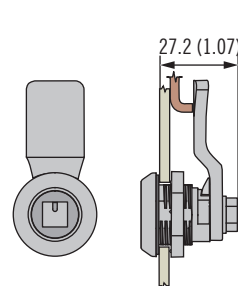
Glass-filled
nylon, black



304
Stainless steel

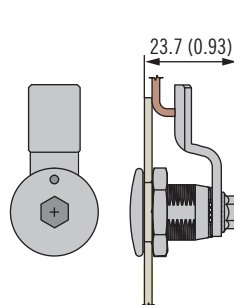
➤ Select one of these four styles to fit your access requirements

There are four basic E5 styles to meet specific door configuration and mounting requirements in terms of design, depth, surface protrusion and operation style.



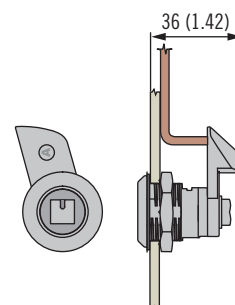
E5 Standard

Industry standard, highly modular and configurable options in a wide choice of materials, finishes and access styles.
(See page 118)



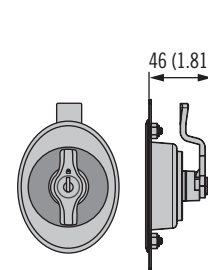
E5 Low Profile

Stylish, low profile design. Tool and hand operated access styles in zinc alloy chrome plated or black powder coated.
(See page 120)



E5 Push-to-Close

Standard E5 with the added functionality of a spring-loaded cam or actuator for single or multi-point operation. Provides quicker turn-to-open, push-to-close action. (See page 128)



E5 Flush Cup Wing Knob

Stylish oval cup design. Provides a clean, flush outer surface. Ideal for multi-point actuation of large doors in aesthetically pleasing applications.
(See page 122)



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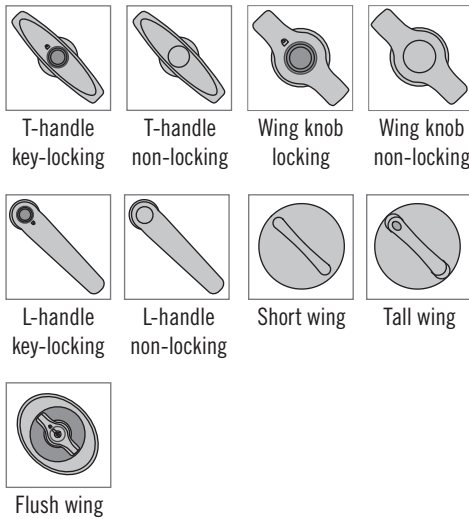
Dimensions in millimeters (inch) unless otherwise stated

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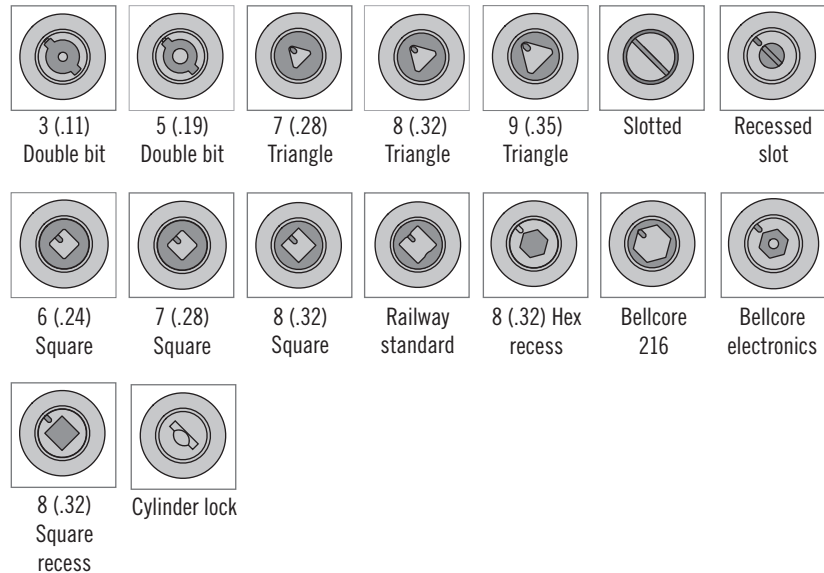
➔ Choose from a wide range of operating styles to fit application and industry requirements.

- ➔ Convenient hand-operated wing knob, T and L-handle styles for easy hand access
- ➔ Tool operated for restricted access, flush-mount or low-profile clearances, and industry-specific standards
- ➔ Key operated for added security

Hand operable

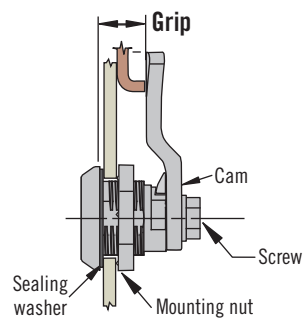


Tool / key operable



➔ Determine your grip options for a perfect fit

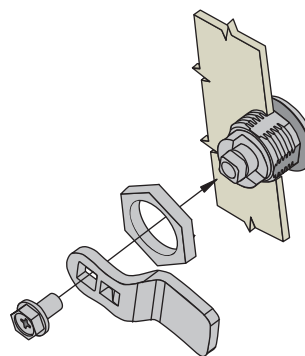
Total grip includes the dimensions of all elements in-between the mounting surface of the latch and the latch's contact surface on the frame - including door thickness, compressed seals and gaskets, accessories, frame offset, etc.



Selecting the right cam for the E5 is easy once the total grip is known. Southco provides a wide selection of standard cams in many grip increments, and special ones like hook and push-to-close cams. Standard cams provide vibration resistance and grip variation tolerance.

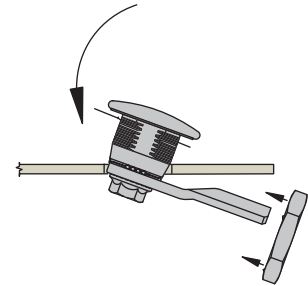
Installation

Some **SOUTHCO® E5** latches are shipped latch and cam separately and some completely pre-assembled. See product pages for details.



E5 Standard

Latch and cam shipped separately.



E5 Low Profile

Latch and cam shipped pre-assembled.



E5 Cam Latch

Stainless steel

Tool operated

Fixed grip



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- Single hole install
- Latched / unlatched indicator
- EN 45545-3 E60 Compliant

Material and Finish

Stainless steel, 304 or 316 grade

Performance Details

Maximum static load:

304 Stainless steel 550 N (124 lbf)

316 Stainless steel 670 N (150 lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Installation Notes

Mounting nut:

Maximum tightening torque:

20 N·m (177 in·lbf)

Screw Maximum tightening torque

10 N·m (90 in·lbf)

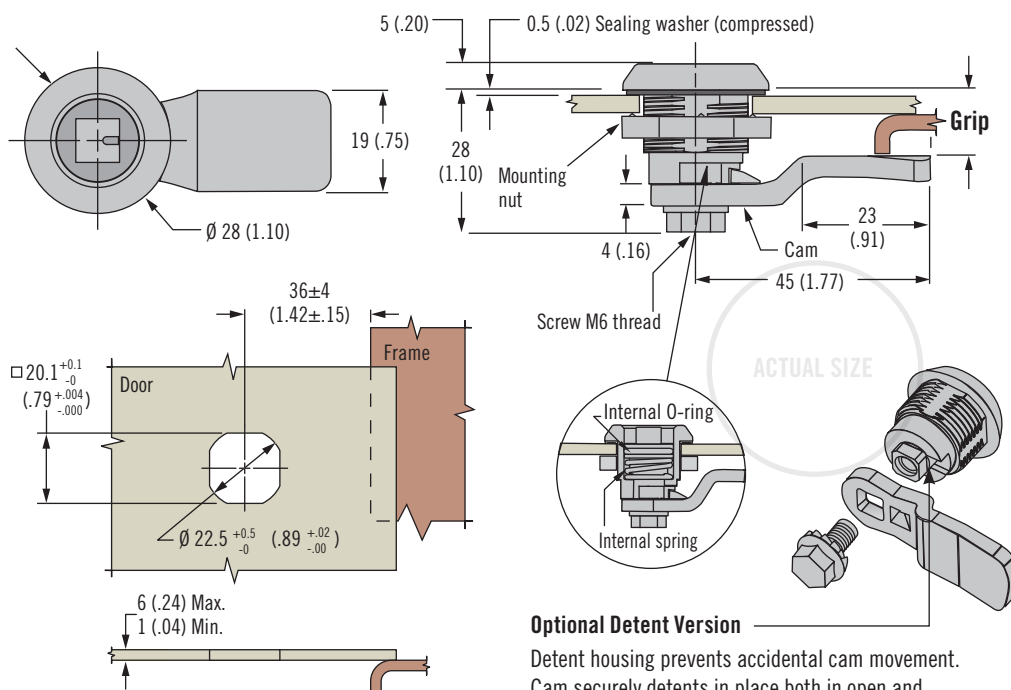
Keys and Accessories

See page 130

Part Number Selection

See table

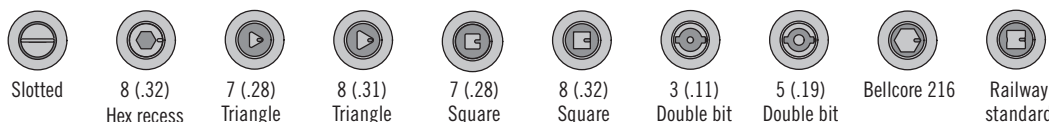
Order latch and cam separately



Optional Detent Version

Detent housing prevents accidental cam movement. Cam securely detents in place both in open and closed positions.

H Head Styles



Latch Part Number (no cam)

E5 - B - H M - UU1

B Body

6 Normal housing

32 Detented housing

H Head style

00 Slotted

01 8 (.32) Hex recess

02 7 (.28) Triangle

03 8 (.32) Triangle

04 7 (.28) Square

05 8 (.32) Square

06 3 (.11) Double bit

07 5 (.19) Double bit

13 Bellcore 216

22 Railway standard

M Material

24 304 Stainless steel

27 316 Stainless steel

Cam Part Number Table (order separately from latch)

Grip +2(.08) - 0 (.00)	Part Number		Grip +2(.08) - 0 (.00)	Part Number		Grip +2(.08) - 0 (.00)	Part Number		Grip +2(.08) - 0 (.00)	Part Number	
	304 Stainless steel	316 Stainless steel		304 Stainless steel	316 Stainless steel		304 Stainless steel	316 Stainless steel		304 Stainless steel	316 Stainless steel
4 (.16)	E5-8003	E5-9003	14 (.55)	E5-8008	E5-9008	24 (.94)	E5-8013	E5-9013	34 (1.34)	E5-8018	E5-9018
6 (.24)	E5-8004	E5-9004	16 (.63)	E5-8009	E5-9009	26 (1.02)	E5-8014	E5-9014	36 (1.42)	E5-8019	E5-9019
8 (.31)	E5-8005	E5-9005	18 (.71)	E5-8010	E5-9010	28 (1.10)	E5-8015	E5-9015	38 (1.50)	E5-8020	E5-9020
10 (.39)	E5-8006	E5-9006	20 (.79)	E5-8011	E5-9011	30 (1.18)	E5-8016	E5-9016	40 (1.57)	E5-8021	E5-9021
12 (.47)	E5-8007	E5-9007	22 (.87)	E5-8012	E5-9012	32 (1.25)	E5-8017	E5-9017	42 (1.65)	E5-8022	E5-9022



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Dimensions in millimeters (inch) unless otherwise stated

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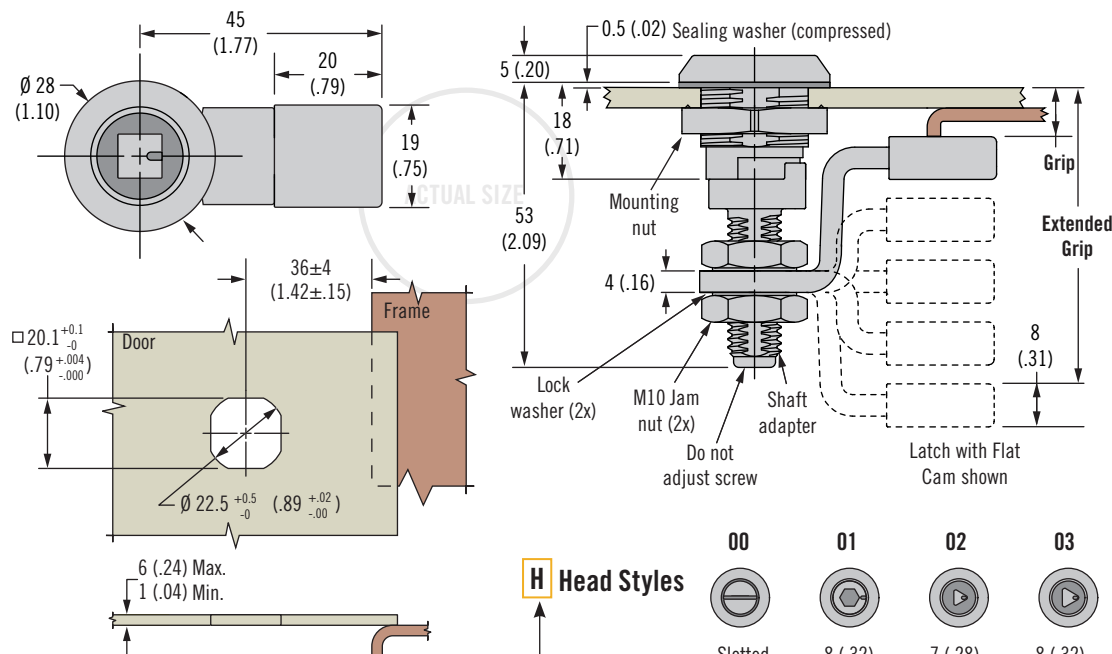
E5 Cam Latch

Zinc · Tool operated

Adjustable grip



118A

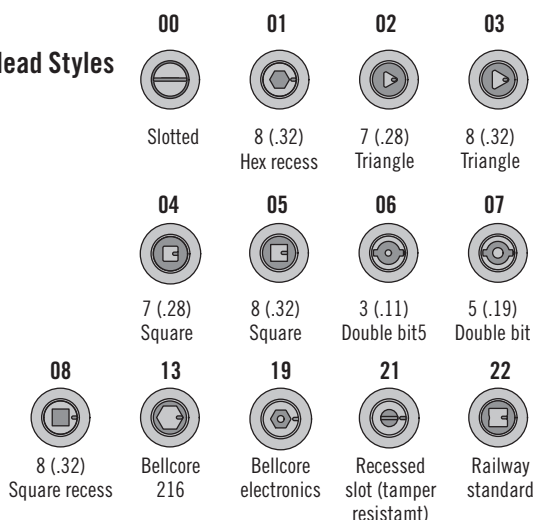


Latch Part Number (no cam)

E5 - 6 - H F - 01

- F** Finish
- 2 Bright chrome
 - 5 Black powder coated

H Head Styles



- Single hole install
- Latched / unlatched indicator
- Easy grip adjustment
- Tool operated for security

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Position cam so latching function can be achieved comfortably by hand. Recommended tightening torque for mounting nut is 10 N·m (88 in·lbf) max, and jam nut is 7 N·m (62 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

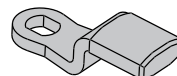
Part Number Selection

See table

Order latch and cam separately

Flat Cam Part Number Table (order separately from latch)

Minimum Grip +2(.08) - 0	Maximum Grip +2(.08) - 0	Offset	Cam Type	Part Number
5 (.20)	16.5 (.65)	Deep Cam	Forward	E5-4001
51 (2.01)	62.5 (2.46)	Deep Cam	Reversed	
16.5 (.65)	28 (1.10)	Cam	Forward	E5-4002
39.5 (1.56)	51 (2.01)	Cam	Reversed	
28 (1.10)	39.5 (1.56)	-	Straight Cam	E5-4003

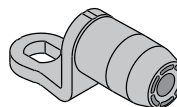


Flat Cam

- Stable frame engagement
- Improved surface contact
- Minimal frame surface prep

Roller Cam Part Number Table (order separately from latch)

0 (0)	5 (.20)	Extra Deep Cam	Forward	E5-4505
54 (2.13)	62.5 (2.46)	Extra Deep Cam	Reversed	
0 (0)	8 (.31)	Deep Cam	Forward	E5-4506
45 (1.89)	58 (2.28)	Deep Cam	Reversed	
8 (0.31)	18 (.71)	Medium Cam	Forward	E5-4507
38 (1.50)	48 (1.89)	Medium Cam	Reversed	
18 (0.17)	28 (1.10)	Low Cam	Forward	E5-4508
28 (1.10)	38 (1.50)	Low Cam	Reversed	



Roller Cam

- Reduce operating effort
- Minimize scratching frame finish
- Detented feel (with optional Keeper)

Dimensions in millimeters (inch) unless otherwise stated





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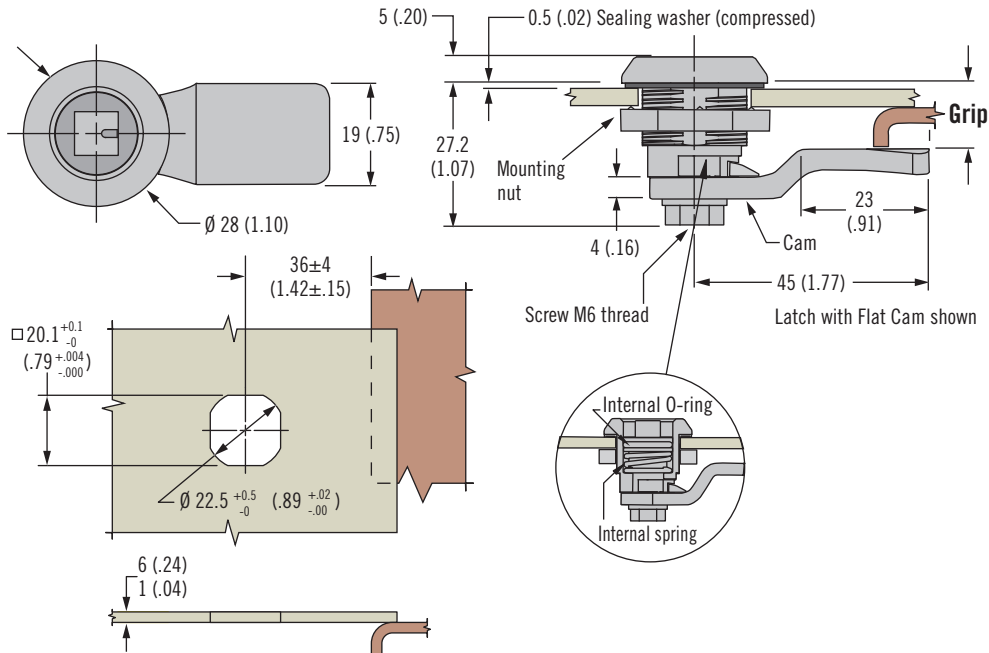
E5 Cam Latch

Zinc · Tool operated

Short Housing · Fixed grip



119



- Single hole install
- Latched / unlatched indicator
- EN 45545-3 E10 Compliant

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut:

Maximum tightening torque:
10 N·m (88 in·lbf)

Screw Maximum tightening torque:
5 N·m (45 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Notes

Suitable for push-to-close action
see page 128

Part Number Selection

See table

Order latch and cam separately

Latch Part Number (no cam)

E5 - 6 - H F - UU1

H Head Styles

00	01	02	03
Slotted	8 (.32) Hex recess	7 (.28) Triangle	8 (.32) Triangle

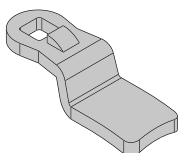
F Finish

04	05	06	07	08
7 (.28) Square	8 (.32) Square	3 (.11) Double bit	5 (.19) Double bit	8 (.32) Square recess

13 Bellcore 216
19 Bellcore electronics
21 Recessed slot (tamper resistant)
22 Railway standard
23 Blank

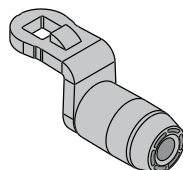
2 Bright chrome
5 Black powder coated

Cam Options - See Page 127A Short Housing Table



Flat Cam

- Stable frame engagement
- Improved surface contact
- Minimal frame surface prep



Roller Cam

- Reduce operating effort
- Minimize scratching frame finish
- Detented feel (with optional Keeper)



Optional Keeper for Roller Cam

Part number E5-74-601-33



E5 Cam Latch

Zinc · Tool operated
Long Housing · Fixed grip



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- Single hole install
- Latched / unlatched indicator
- Suitable for thick doors

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 30 N (74 lbf)

Installation Notes

Mounting nut:

Maximum tightening torque:
10 N·m (88 in·lbf)

Screw Maximum tightening torque:
5 N·m (45 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using
gasket supplied

Keys and Accessories

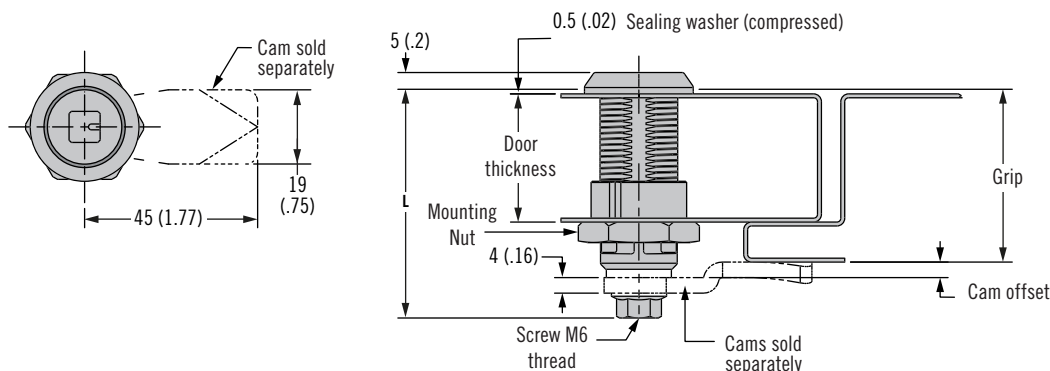
See page 130

Part Number Selection

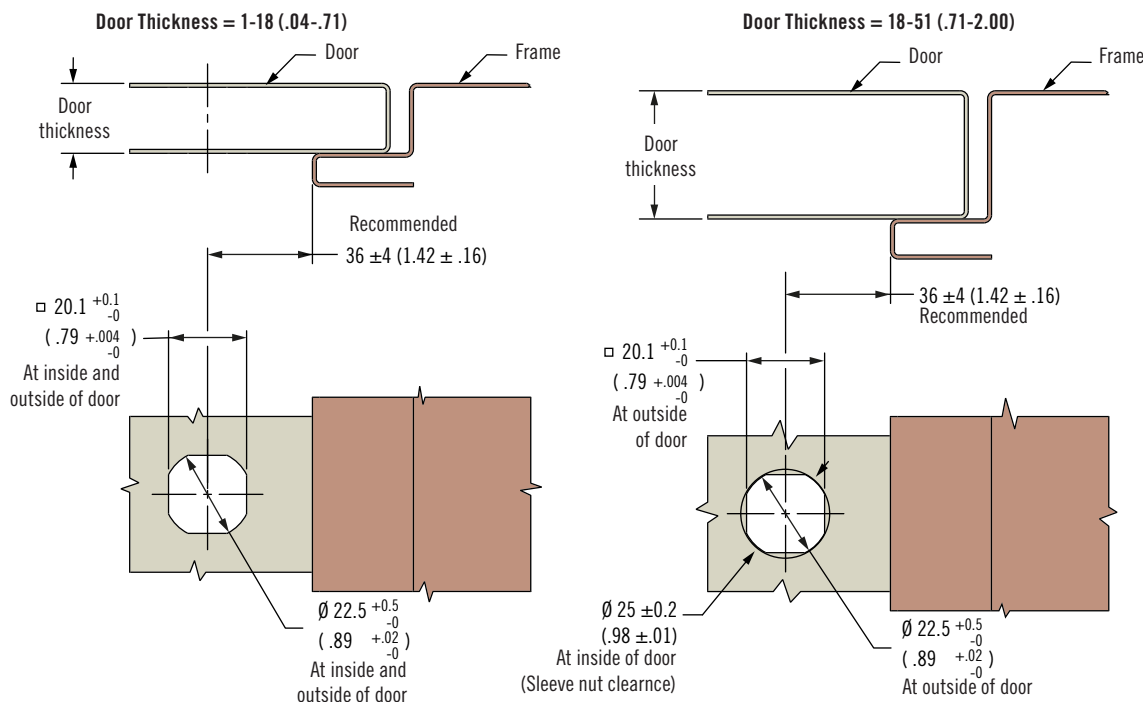
See table

Order latch and cam separately

Compatible with flat and roller cams
- See page 127B, Long Housing
Table for cam part numbers



Door Preparation



Optional Keeper for Roller Cam

Part number E5-74-601-33



E5 - 6 A - H F - UU D

Finish

- 2 Bright chrome
- 5 Black powder coated

Head style (See pg 117 for details)

- | | |
|-----------------------|-------------------------------------|
| 00 Slotted | 08 8 (.32) Square recess |
| 01 8 (.32) Hex recess | 13 Bellcore 216 |
| 02 7 (.28) Triangle | 19 Bellcore Electronics |
| 03 8 (.32) Triangle | 21 Recessed slot (tamper resistant) |
| 04 7 (.28) Square | 22 Railway standard |
| 05 8 (.32) Square | 23 Blank |
| 06 3 (.11) Double bit | |
| 07 5 (.19) Double bit | |

D	Door Thickness	Grip Range	L
1	1-18 (.04-.71)	5-53 (.20-2.09)	45.5 (1.79)
2	1-18 (.04-.71)	54-82 (2.13-3.23)	68.2 (2.69)
3	18-33 (.71-1.30)	18-66 (.71-2.60)	58.2 (2.29)
4	18-33 (.71-1.30)	68-82 (2.60-3.23)	68.2 (2.69)
5	33-51 (1.30-2.00)	34-82 (1.34-3.23)	68.2 (2.69)

Dimensions in millimeters (inch) unless otherwise stated

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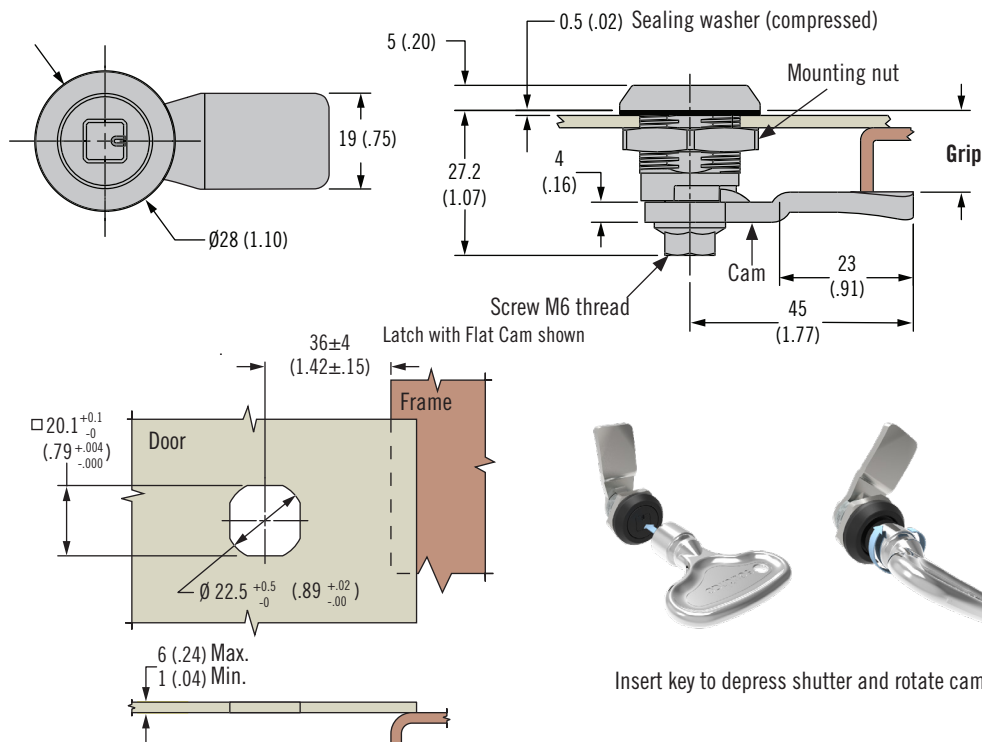
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E5 Cam Latch

Zinc · Shutter · Tool operated
Fixed grip



119B



H Head Styles



Latch Part Number (no cam)

E5 - 8 - H F - UU1

F Finish

- 2 Bright chrome
- 5 Black powder coated

H Head style

- 02 7 (.28) Triangle
- 03 8 (.32) Triangle
- 04 7 (.28) Square
- 05 8 (.32) Square
- 13 Bellcore 216

Cam Part Number Table (order separately from latch)

Grip	Part Number	Grip	Part Number	Grip	Part Number	Grip	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022

- Single hole install
- Latched / unlatched detent
- Vibration resistant
- EN 61373 Compliant

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in·lbf)

Screw Maximum tightening torque: 5 N·m (45 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Part Number Selection

See table

Order latch and cam separately



E5 Cam Latch Low Profile

Zinc · Tool or hand operated
Fixed grip



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- Single hole install
- Latched / unlatched indicator
- Shipped fully assembled
- EN 45545-3 E10 Compliant

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut

Maximum tightening torque:
10 N·m (88 in·lbf)

Keys and Accessories

See page 130

Part Number Selection

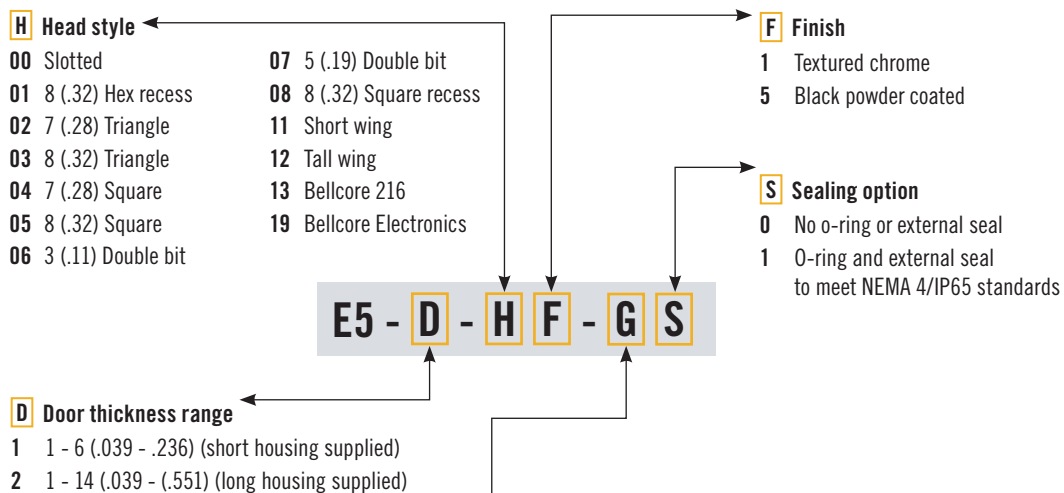
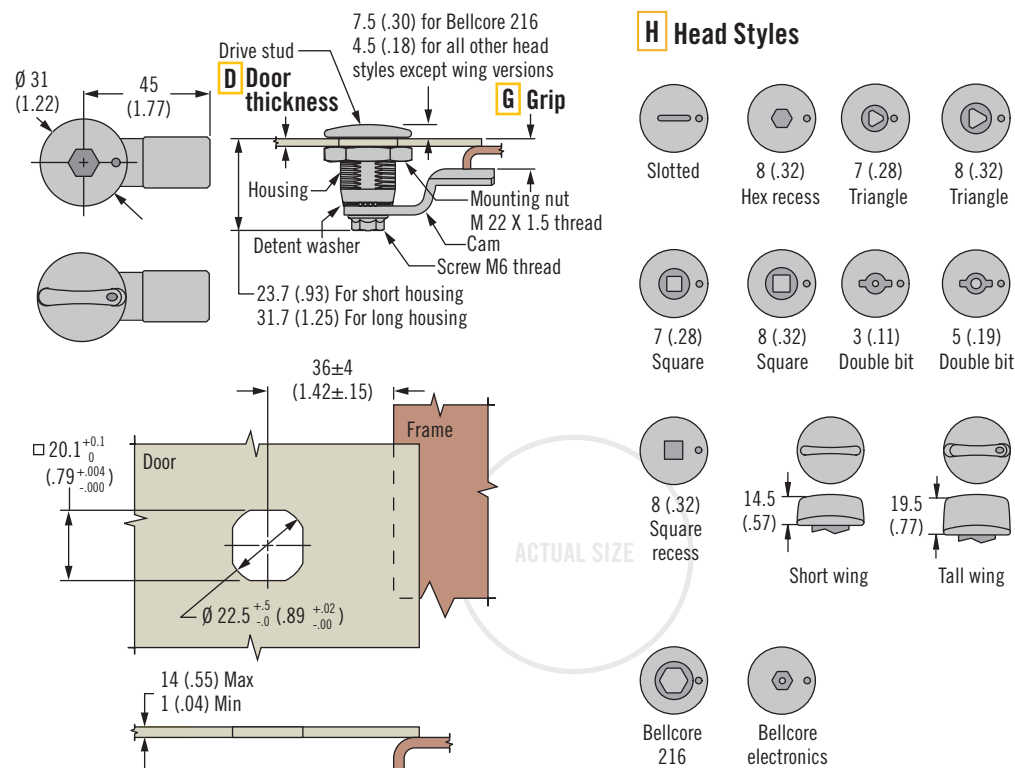
See table

Latch is shipped fully assembled

For door thicknesses

1 - 6 (.039 - .236) grip must exceed door thickness by 4 (.157) for assembled installation

When sealing option is selected, add 0.4 (.02) to grip calculation to accommodate sealing washer



G Grip table					
G	Grip		G	Grip	
	Short housing	Long housing		Short housing	Long housing
00	Do not use	6 (.24)	05	8 (.31)	16 (.63)
01	Do not use	8 (.31)	06	10 (.39)	18 (.71)
02	2 (.08)	10 (.39)	07	12 (.47)	20 (.79)
03	4 (.16)	12 (.47)	08	14 (.55)	22 (.87)
04	6 (.24)	14 (.55)	09	16 (.63)	24 (.94)
			10	18 (.71)	26 (1.02)
			11	20 (.79)	28 (1.10)
			12	22 (.87)	30 (1.18)
			13	24 (.94)	32 (1.25)
			14	26 (1.02)	34 (1.34)
			15	28 (1.10)	36 (1.42)
			16	30 (1.18)	38 (1.50)
			17	32 (1.25)	40 (1.57)
			18	34 (1.34)	42 (1.65)
			19	36 (1.42)	44 (1.73)

If grip falls between two choices, use the smaller option

Dimensions in millimeters (inch) unless otherwise stated



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E5 Cam Latch

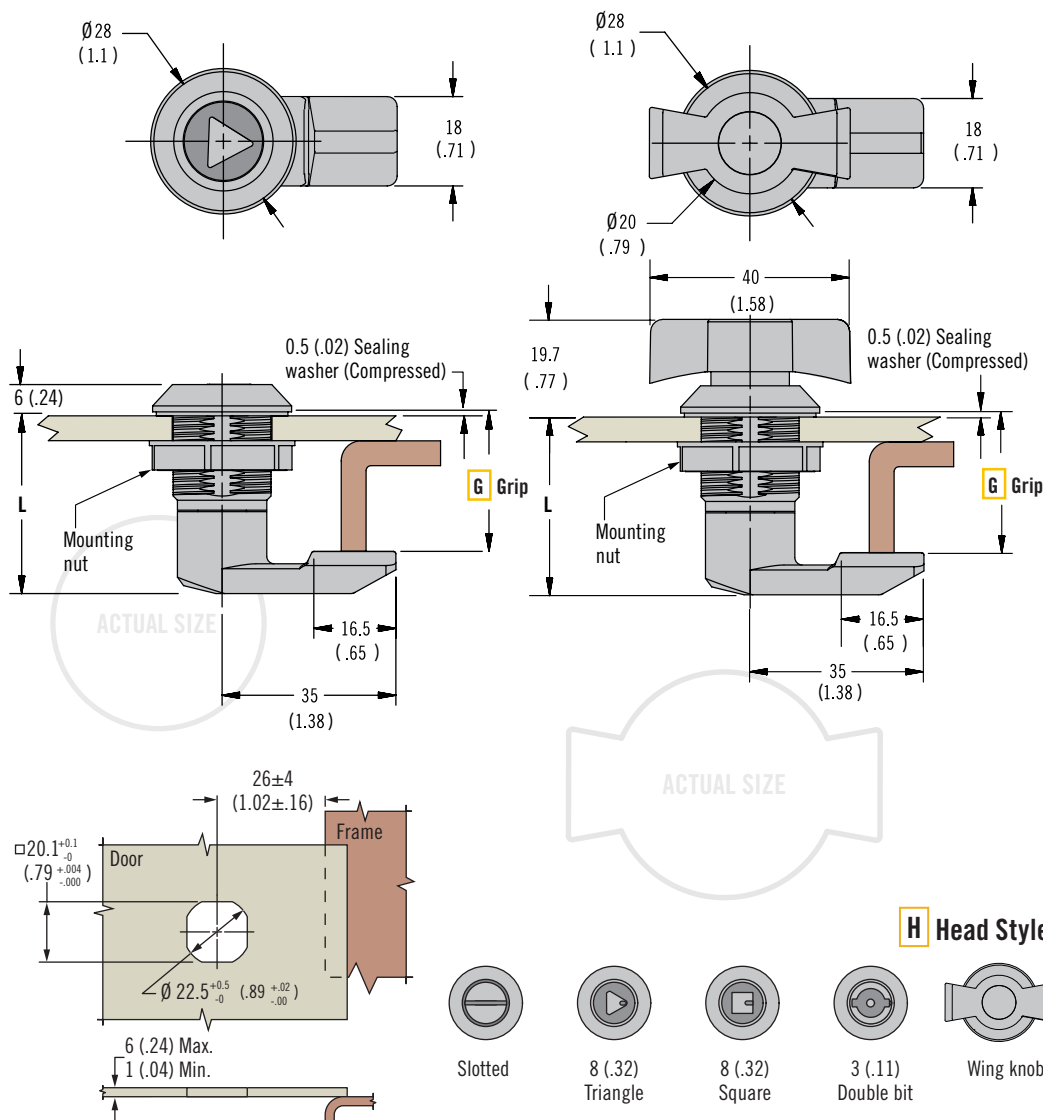
Glass-filled nylon

Tool or hand operated

Fixed grip



121



- Single hole install
- Corrosion-resistant materials

Material and Finish

Glass-filled nylon and Stainless steel

Performance Details

Average ultimate load:
300 N (68 lbf)

Installation Notes

Mounting nut
Maximum tightening torque:
4.25 N-m (38 in-lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Latch Part Number

E5 - 4 - H 3 - G 1

H Head style

- 00 Slotted
- 03 8 (.32) Triangle
- 05 8 (.32) Square
- 06 3 (.11) Double bit
- 30 Wing knob

Part Number Selection

See table

G Grip table

Total Grip	G	L	Max. Door Thickness for Assembled Latch	Total Grip	G	L	Max. Door Thickness for Assembled Latch	Total Grip	G	L	Max. Door Thickness for Assembled Latch
16 (.63)	16	28.1 (1.1)	5 (.20)	24 (.94)	24	34.6 (1.36)	6 (.24)	30 (1.18)	30	40.6 (1.6)	6 (.24)
18 (.71)	18	28.1 (1.1)	5 (.20)	25 (.98)	25	35.6 (1.4)	6 (.24)	32 (1.26)	32	42.6 (1.68)	6 (.24)
20 (.79)	20	28.1 (1.1)	6 (.24)	26 (1.02)	26	36.6 (1.44)	6 (.24)	34 (1.34)	34	44.6 (1.76)	6 (.24)
22 (.87)	22	32 (1.26)	6 (.24)	28 (1.10)	28	38.6 (1.52)	6 (.24)	36 (1.42)	36	46.6 (1.83)	6 (.24)



E5 Cam Latch

Zinc · Flush cup wing style
Hand operated · Fixed grip



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- Low profile
- Multiple key code options

Material and Finish

Zinc alloy, powder coated and steel,
zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nuts 10-24 UNC (supplied)
maximum tightening torque: 3 N·m
(25 in·lbf)

Screw maximum tightening torque:
10 N·m (90 in·lbf)

Keys

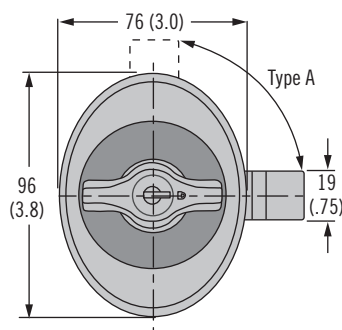
See page 130

Notes

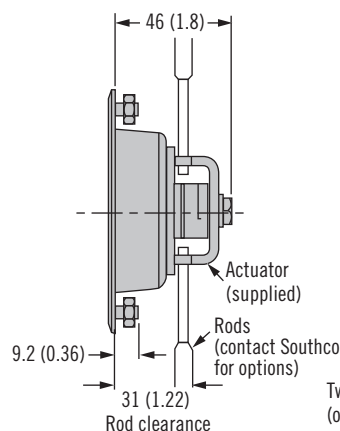
Two point push-to-close action:
Internal spring causes return of
wing knob and actuator to original
latched position when wing knob is
released after opening. Ideal for use
with cables and rotary latches.

For lock core selection and a
complete overview of the *SOUTHCO*®
Key-Choice System see page 158

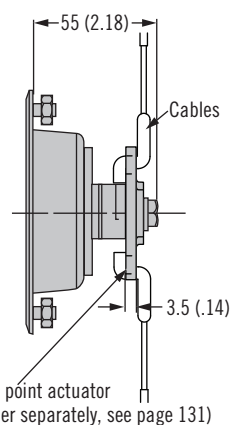
Single Point



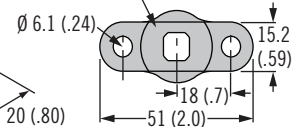
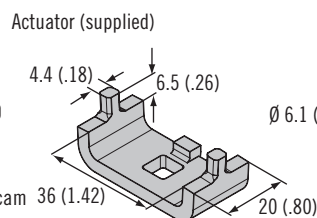
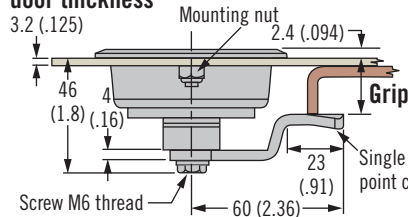
Two Point (for use with rods)



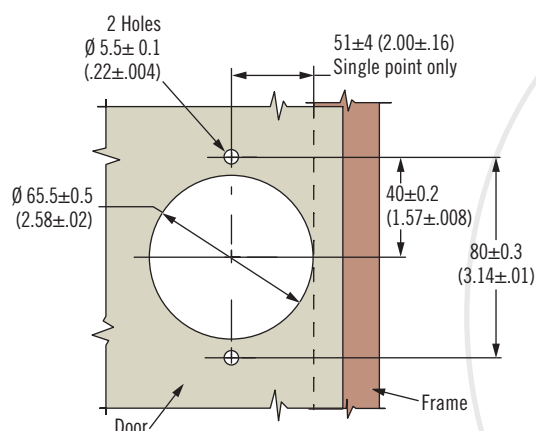
Two Point Push-to-Close Action (spring-loaded)



Maximum door thickness



Type A (reverse frame for type B)



ACTUAL SIZE

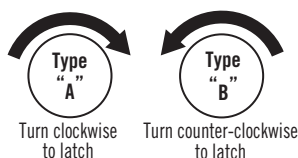


www.southco.com/E5

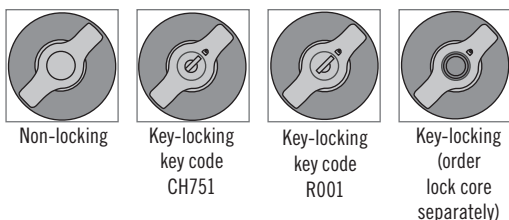
Dimensions in millimeters (inch) unless otherwise stated

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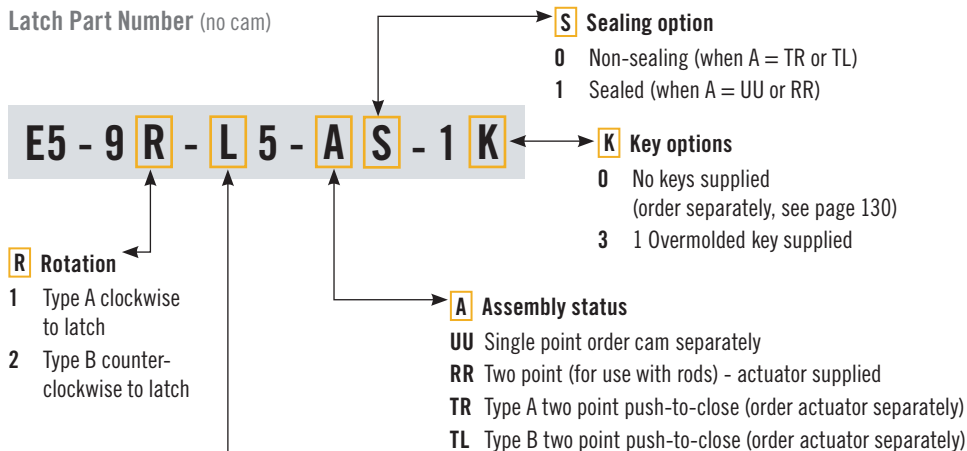
R Rotation



L Lock Styles



Latch Part Number (no cam)



Cam Part Number Table (order separately from latch)

Grip	Part Number	Grip	Part Number
22.7 (.89)	E5-6603	30.7 (1.21)	E5-6607
24.7 (.97)	E5-6604	32.7 (1.29)	E5-6608
26.7 (1.05)	E5-6605	34.7 (1.37)	E5-6609
28.7 (1.13)	E5-6606	36.7 (1.44)	E5-6610

If grip falls between two choices, use the smaller option

Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection

See table

Single point

Order latch and cam separately

Two point (for use with rods)

Order latch only
(two point actuator supplied)

Two point push-to-close action (spring loaded)

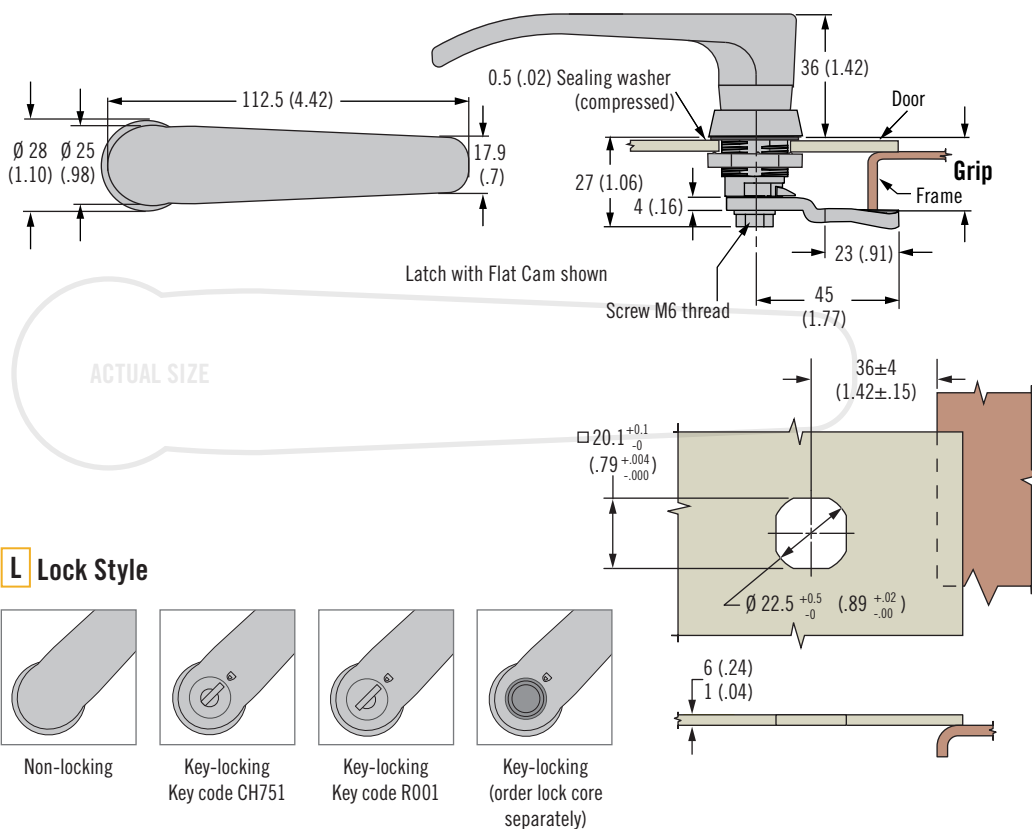
Order latch and actuator separately.
Actuator part number A5-91-201-11,
see page 131 for details.
To be used with *SOUTHCO*® R4
rotary series latches and cables
see page 272.



Hand operated · Fixed grip

Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info **051 4171115** - luca.chiarelli@rivit.it

- Order latch and cam separately



E5 - 9 - L F - UU1 - 1 K

2 Bright chrome
5 Black powder coated

70 Non-locking (omit last two digits of part number)
71 Keyed CH751 (lock core finish matches handle finish)
72 Keyed R001 (stainless steel scalp shuttered)
73 Without lock core (omit last two digits of part number)
 Order lock core separately, see page 158

0 No keys supplied
(order separately, see page 130)

3 1 Overmolded key supplied

Cam Part Number Table (order separately from latch)							
Grip	Part Number	Grip	Part Number	Grip	Part Number	Grip	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022

If grip falls between two choices, use the smaller option

Dimensions in millimeters (inch) unless otherwise stated



Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info **051 4171115** - luca.chiarelli@rivit.it

E5 Cam Latch

Zinc · T-handle

Hand operated · Fixed grip



125

- Single hole install
- Multiple key codes

Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Installation Notes

Mounting nut:

Maximum tightening torque:
10 N·m (88 in·lbf)

Screw:

Maximum tightening torque:
10 N·m (90 in·lbf)

Keys

See page 130

Notes

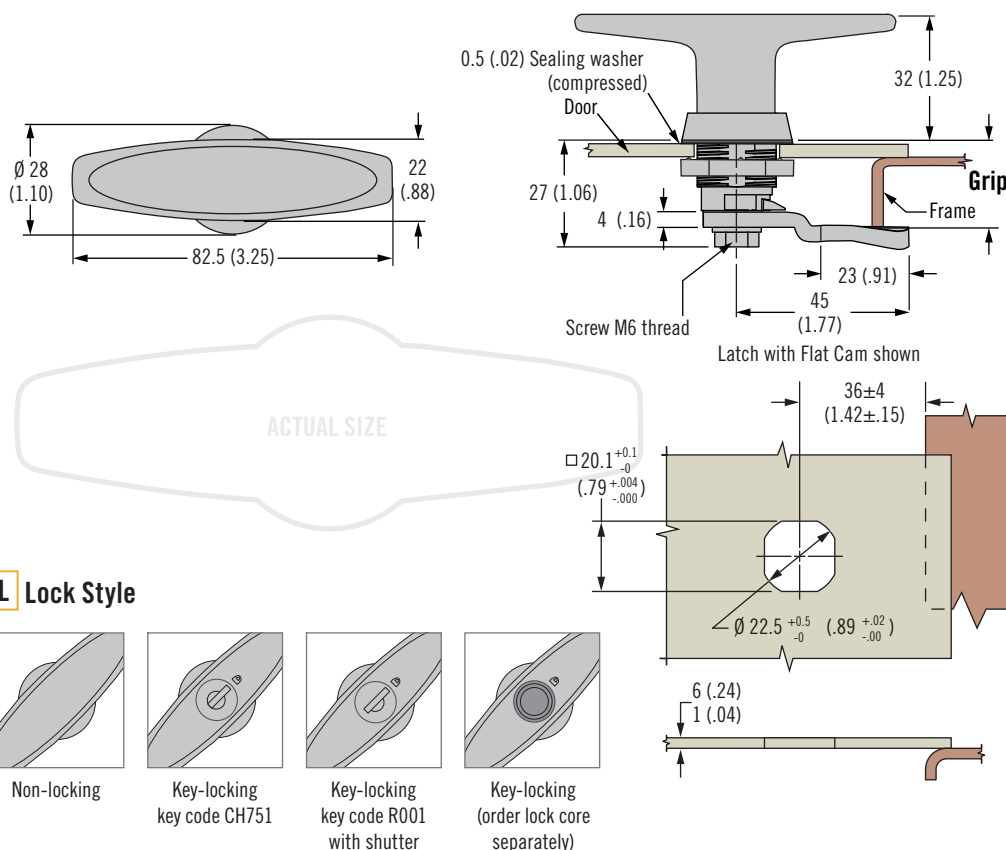
Suitable for push-to-close action
see page 128

For adjustable grip versions see
page 134

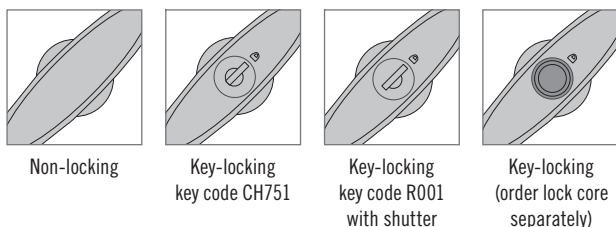
For lock core selection and a
complete overview of the *SOUTHCO*®
Key-Choice System see page 158

Part Number Selection

Order latch and cam separately



L Lock Style



Latch Part Number
(no cam)

E5 - 9 - L F - UU1 - 1 K

L Lock style

- 60** Non-locking (omit last two digits of part number)
- 61** Keyed CH751 (lock core finish matches handle finish)
- 62** Keyed R001 (stainless steel scalp shuttered)
- 63** Without lock core (omit last two digits of part number)
Order lock core separately, see page 158

F Finish

- 2** Bright chrome
- 5** Black powder coated

K Key options

- 0** No keys supplied (order separately, see page 130)
- 3** 1 Overmolded key supplied

Cam Part Number Table (order separately from latch)

Grip	Part Number	Grip	Part Number	Grip	Part Number	Grip	Part Number
4 (.16)	E5-6003	14 (.55)	E5-6008	24 (.94)	E5-6013	34 (1.34)	E5-6018
6 (.24)	E5-6004	16 (.63)	E5-6009	26 (1.02)	E5-6014	36 (1.42)	E5-6019
8 (.31)	E5-6005	18 (.71)	E5-6010	28 (1.10)	E5-6015	38 (1.50)	E5-6020
10 (.39)	E5-6006	20 (.79)	E5-6011	30 (1.18)	E5-6016	40 (1.57)	E5-6021
12 (.47)	E5-6007	22 (.87)	E5-6012	32 (1.25)	E5-6017	42 (1.65)	E5-6022

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If grip falls between two choices, use the smaller option
Dimensions in millimeters (inch) unless otherwise stated



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E5 Cam Latch

Zinc · Wing style

Fixed grip

Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info 051 4171115 - luca.chiarelli@rivit.it

- Single hole install
- Multiple key codes
- Easy finger grip

Material and Finish

Wing: Zinc alloy, black powder coated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in·lbf)

Screw Maximum tightening torque: 5 N·m (45 in·lbf)

Keys

See page 130

Notes

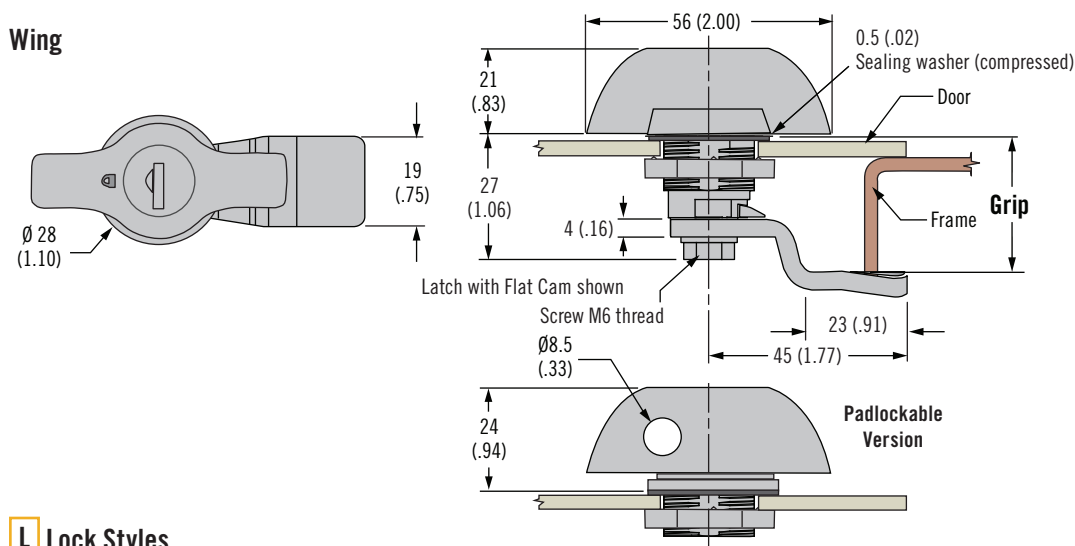
Wing style suitable for push-to-close action see page 128

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

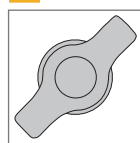
Part Number Selection

Order latch and cam separately

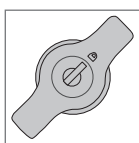
Wing



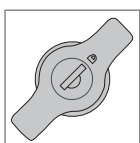
L Lock Styles



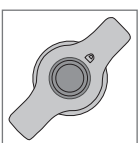
Non-locking



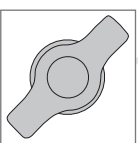
Key-locking
key code CH751



Key-locking
key code R001
with shutter



Key-locking
lock core
(order separately)



Padlockable

ACTUAL SIZE

Latch Part Number (no cam)

E5 - 9 - L 5 - UU1 - 1 K

K Key options

- 0 No keys supplied
(order separately, see page 130)
- 3 1 Overmolded key supplied

L Lock style

- 30 Non-locking (omit last two digits of part number)
- 31 Key-locking black lock core keyed alike CH751
- 32 Key-locking stainless steel scalp and shuttered lock core keyed alike R001
- 33 Without lock core (omit last two digits of part number) Order lock core separately, see page 158
- 51 Padlockable, Type A clockwise to latch (omit last two digits in part number)
- 52 Padlockable, Type B counter-clockwise to latch (omit last two digits in part number)

Cam Part Number

E5 - 6 L G

L Lock style

- 0 Non-locking or Key-locking
- 1 Padlockable

G Grip

Grip	G	Grip	G	Grip	G	Grip	G
4 (.16)	03	14 (.55)	08	24 (.94)	13	34 (1.34)	18
6 (.24)	04	16 (.63)	09	26 (1.02)	14	36 (1.42)	19
8 (.31)	05	18 (.71)	10	28 (1.10)	15	38 (1.50)	20
10 (.39)	06	20 (.79)	11	30 (1.18)	16	40 (1.57)	21
12 (.47)	07	22 (.87)	12	32 (1.25)	17	42 (1.65)	22



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E5 Cam Latch

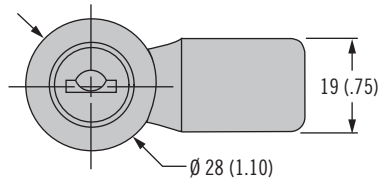
Zinc · Cylinder lock

Fixed grip

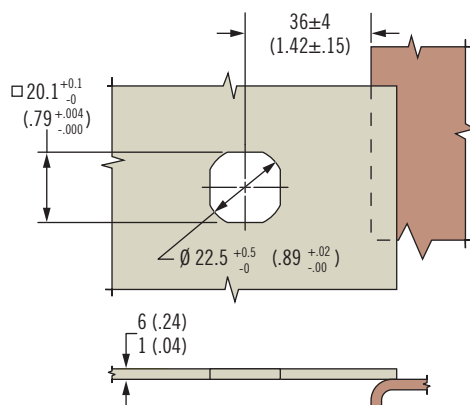
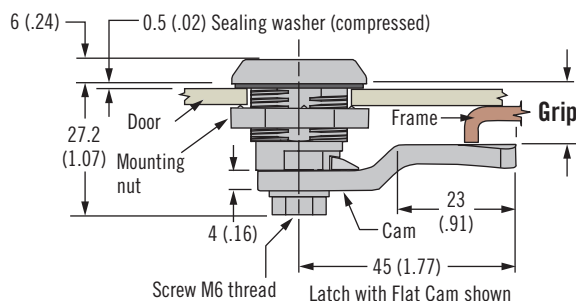


127

Cylinder Lock



ACTUAL SIZE



F Finish

- 2 Bright chrome
- 5 Black powder coated

Latch Part Number
(no cam)

K Key options CH751

- 0 No keys supplied (order separately, see page 130)
- 2 2 Flat keys supplied

E5 - 5 - 40 **F** - UU1 - 1 **K**

- Single hole install
- Latched / unlatched indicator

Material and Finish

Zinc alloy, powder coated and steel, zinc plated
Scalp stainless steel

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in·lbf)

Screw Maximum tightening torque: 5 N·m (45 in·lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

Keys and Accessories

See page 130

Notes

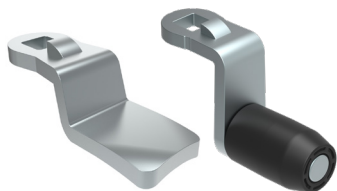
Suitable for push-to-close action
see page 128.

See page 126 for cam part numbers

Part Number Selection

See table

Order latch and cam separately



E5 Cam Latch Cams

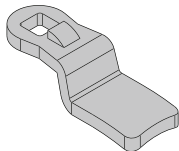


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Material and Finish

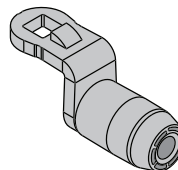
Flat cam: steel
Roller cam: steel, nylon

Cam Options



Flat Cam

- Stable frame engagement
- Improved surface contact
- Minimal frame surface prep



Roller Cam

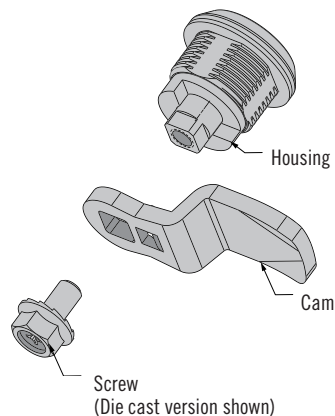
- Reduce operating effort
- Minimize scratching frame finish
- Detented feel (with optional Keeper)



Optional Keeper for Roller Cam
Part number E5-74-601-33

Installation Notes

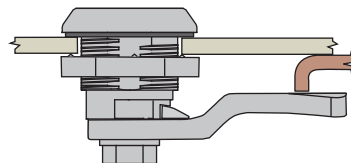
- Install cam to latch assembly. Properly orient for rotation and grip
- Install screw. Tighten to 5 N-m (44 in-lbf) MAX



Part Number Selection

See table for cam part number
Order latch and cam separately
For latch part number, see pages 119-119A

Short Housing Table



Cam Part Number Table (order separately from latch)											
Grip =2(.08) -0(.00)	Flat Cam Part Number	Roller Cam Part Number	Grip =2(.08) -0(.00)	Flat Cam Part Number	Roller Cam Part Number	Grip =2(.08) -0(.00)	Flat Cam Part Number	Roller Cam Part Number	Grip =2(.08) -0(.00)	Flat Cam Part Number	Roller Cam Part Number
4 (.16)	E5-6003	-	14 (.55)	E5-6008	-	24 (.94)	E5-6013	E5-7013	34 (1.34)	E5-6018	E5-7018
6 (.24)	E5-6004	-	16 (.63)	E5-6009	E5-7009	26 (1.02)	E5-6014	E5-6014	36 (1.42)	E5-6019	E5-7019
8 (.31)	E5-6005	-	18 (.71)	E5-6010	E5-7010	28 (1.10)	E5-6015	E5-7015	38 (1.50)	E5-6020	E5-7020
10 (.39)	E5-6006	-	20 (.79)	E5-6011	E5-7011	30 (1.18)	E5-6016	E507016	40 (1.57)	E5-6021	E5-7021
12 (.47)	E5-6007	-	22 (.87)	E5-6012	E5-7012	32 (1.25)	E5-6017	E5-7017	42 (1.65)	E5-6022	E5-7022

If grip falls between two choices, use the smaller options

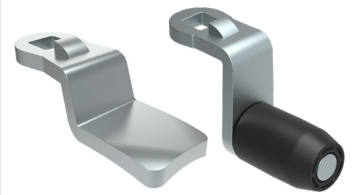
Dimensions in millimeters (inch) unless otherwise stated





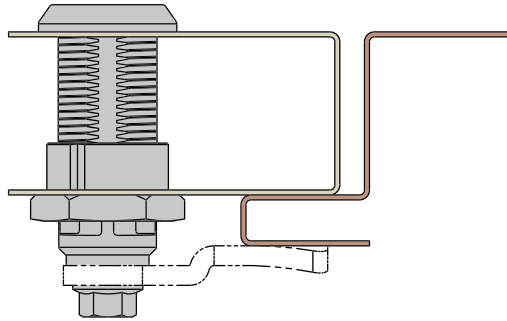
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Per info 051 4171115 - luca.chiarelli@rivit.it

E5 Cam Latch Cams



127B

Long Housing Table



Material and Finish

Flat cam: steel

Roller cam: steel, nylon

Part Number Selection

See table for cam part number

Order latch and cam separately

For latch part number, see pages
119-119A

E5 - 6A - H F - UU D

D	Door Thickness	Grip Range
1	1-18 (.04-.71)	5-53 (.20-2.09)
2	1-18 (.04-.71)	54-82 (2.13-3.23)
3	18-33 (.71-1.30)	18-66 (.71-2.60)
4	18-33 (.71-1.30)	68-82 (2.60-3.23)
5	33-51 (1.30-2.00)	34-82 (1.34-3.23)

Cam Part Number Table (order separately from latch)															
D	Grip +2 (.08) -0 (.00)	Flat Cam Part Number	Roller Cam Part Number	Grip +2 (.08) -0 (.00)	Flat Cam Part Number	Roller Cam Part Number	Grip +2 (.08) -0 (.00)	Flat Cam Part Number	Roller Cam Part Number	Grip +2 (.08) -0 (.00)	Flat Cam Part Number	Roller Cam Part Number	Grip +2 (.08) -0 (.00)	Flat Cam Part Number	Roller Cam Part Number
1	5 (.2)	E5-6028	-	15 (.59)	E5-6023	-	25 (.98)	E5-6005	-	35 (1.38)	E5-6010	E5-7010	45 (1.77)	E5-6015	E5-7015
	7 (.28)	E5-6027	-	17 (.67)	E5-6001	-	27 (1.06)	E5-6006	-	37 (1.46)	E5-6011	E5-7011	47 (1.85)	E5-6016	E5-7016
	9 (.35)	E5-6026	-	19 (.75)	E5-6002	-	29 (1.14)	E5-6007	-	39 (1.54)	E5-6012	E5-7012	49 (1.93)	E5-6017	E5-7017
	11 (.43)	E5-6025	-	21 (.83)	E5-6003	-	31 (1.22)	E5-6008	-	41 (1.61)	E5-6013	E5-7013	51 (2.01)	E5-6018	E5-7018
	13 (.51)	E5-6024	-	23 (.91)	E5-6004	-	33 (1.3)	E5-6009	E5-7009	43 (1.69)	E5-6014	E5-7014	53 (3.07)	E5-6019	E5-7019
2	54 (2.13)	E5-6108	-	60 (2.36)	E5-6111	E5-7111	66 (2.6)	E5-6114	E5-7114	72 (2.83)	E5-6117	E5-7117	78 (3.07)	E5-6120	E5-7120
	56 (2.2)	E5-6109	E5-7109	62 (2.44)	E5-6112	E5-7112	68 (2.68)	E5-6115	E5-7115	74 (2.91)	E5-6118	E5-7118	80 (3.15)	E5-6121	E5-7121
	58 (2.28)	E5-6110	E5-7110	64 (2.52)	E5-6113	E5-7113	70 (2.76)	E5-6116	E5-7116	76 (2.99)	E5-6119	E5-7119	82 (3.23)	E5-6122	E5-7122
3	18 (.71)	E5-6128	E5-7118	28 (1.1)	E5-6123	E5-7113	38 (1.5)	E5-6105	-	48 (1.89)	E5-6110	E5-7110	58 (2.28)	E5-6115	E5-7115
	20 (.79)	E5-6127	E5-7117	30 (1.18)	E5-6101	E5-7112	40 (1.57)	E5-6106	-	50 (1.97)	E5-6111	E5-7111	60 (2.36)	E5-6116	E5-7116
	22 (.87)	E5-6126	E5-7116	32 (1.26)	E5-6102	E5-7111	42 (1.65)	E5-6107	-	52 (2.05)	E5-6112	E5-7112	62 (2.44)	E5-6117	E5-7117
	24 (.94)	E5-6125	E5-7115	34 (1.34)	E5-6103	E5-7110	44 (1.73)	E5-6108	-	54 (2.13)	E5-6113	E5-7113	64 (2.52)	E5-6118	E5-7118
	26 (1.02)	E5-6124	E5-7114	36 (1.42)	E5-6104	E5-7109	46 (1.81)	E5-6109	E5-7109	56 (2.2)	E5-6114	E5-7114	66 (2.6)	E5-6119	E5-7119
4	66 (2.6)	E5-6114	E5-7114	70 (2.76)	E5-6116	E5-7116	74 (2.91)	E5-6118	E5-7118	78 (3.07)	E5-6120	E5-7120	82 (3.23)	E5-6122	E5-7122
	68 (2.68)	E5-6115	E5-7115	72 (2.83)	E5-6117	E5-7117	76 (2.99)	E5-6119	E5-7119	80 (3.15)	E5-6121	E5-7121	-	-	-
5	34 (1.34)	E5-6125	E5-7115	44 (1.73)	E5-6103	E5-7110	54 (2.13)	E5-6108	-	64 (2.52)	E5-6113	E5-7113	74 (2.91)	E5-6118	E5-7118
	36 (1.42)	E5-6124	E5-7114	46 (1.81)	E5-6104	E5-7109	56 (2.2)	E5-6109	E5-7109	66 (2.6)	E5-6114	E5-7114	76 (2.99)	E5-6119	E5-7119
	38 (1.5)	E5-6123	E5-7113	48 (1.89)	E5-6105	-	58 (2.28)	E5-6110	E5-7110	68 (2.68)	E5-6115	E5-7115	78 (3.07)	E5-6120	E5-7120
	40 (1.57)	E5-6101	E5-7112	50 (1.97)	E5-6106	-	60 (2.36)	E5-6111	E5-7111	70 (2.76)	E5-6116	E5-7116	80 (3.15)	E5-6121	E5-7121
	42 (1.65)	E5-6102	E5-7111	52 (2.05)	E5-6107	-	62 (2.44)	E5-6112	E5-7112	72 (2.83)	E5-6117	E5-7117	82 (3.23)	E5-6122	E5-7122

If grip falls between two choices, use the smaller options



E5 Cam Latch

Zinc · Push-to-close

Hand, key or tool operated

Single and two point



Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info 051 4171115 - luca.chiarelli@rivit.it

- Single hole installation
- Latched / unlatched indicator
- Push-to-close action

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Maximum static load: 330 N (74 lbf)

Installation Notes

Mounting nut maximum tightening torque: 10 N·m (88 in-lbf)

Screw Maximum tightening torque: 5 N·m (45 in-lbf) for two point actuator only

Keys and Accessories

See page 130

Notes

Single Point: Push-to-close action in unlocked position only and key inserted (cylinder lock)

Two Point: Order actuator separately (see page 131)

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 158

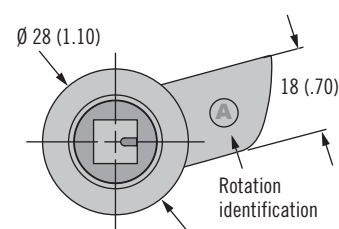
Actuator Part Number

See page 131 for details

Two point to be used with *SOUTHCO*® R4 rotary series latches and cables see page 272

Two point push to close action: Internal spring causes return of driver and actuator to original latched position when driver is released after opening. Ideal for use with cables and rotary latches.

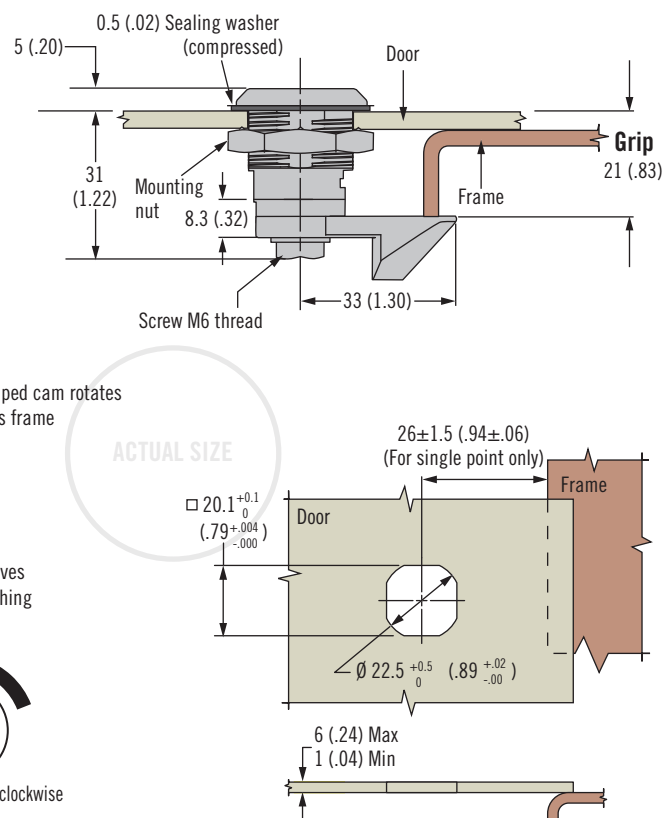
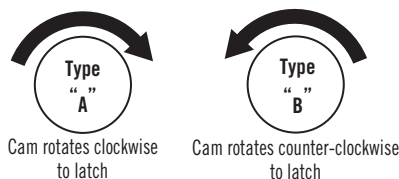
Single Point Spring-Loaded (Type A tool operated shown)



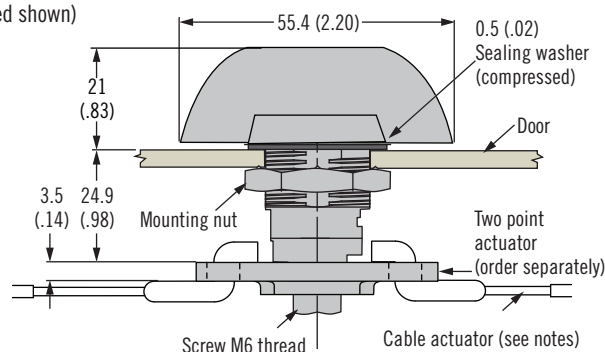
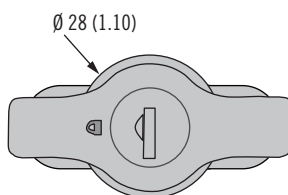
Operation

1. Push door towards frame
2. Ramp-shaped cam rotates as it contacts frame
3. Cam springs back and moves behind frame to achieve latching

R Rotation

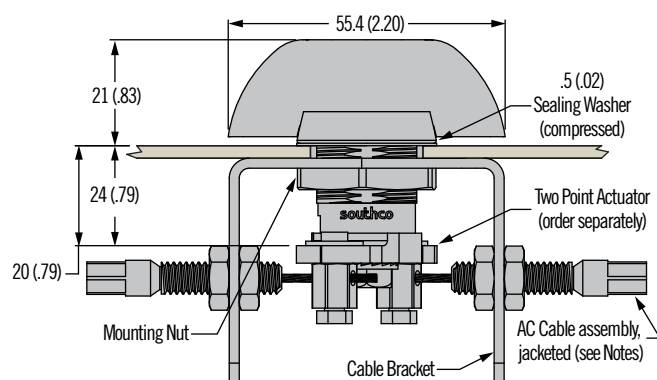


Two Point Spring-Loaded (Type A hand operated shown)



Two Point Actuator for bare cable

(order separately, see page 132)



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Dimensions in millimeters (inch) unless otherwise stated

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Hand / Key Operated

F Finish

- 2 Bright chrome (not available for wing type)
- 5 Black powder coated

T Type

- 5 Cylinder lock keyed alike CH751
- 9 Wing / T-handle / L-handle

R Rotation

- 51 Type A single point (for visual identification cam stamped A or B)
- 52 Type B single point (for visual identification cam stamped A or B)
- TR Type A two point (order actuator separately)
- TL Type B two point (order actuator separately)

Part Number Selection

Latch supplied fully assembled

E5 - T - L F - R 0 - 1 K

K Key options

- 0 No keys supplied (order separately, see page 130)
- 3 1 Overmolded key supplied

Lock style	T = 5	T = 9		
Non-locking (omit last two digits of part number)	~	30	60	70
Keyed CH751 (lock core finish matches handle finish)	~	31	61	71
Keyed CH751 (stainless steel scalp shuttered)	40	~	~	~
Keyed R001 reversible (stainless steel scalp shuttered)	~	32	62	72
Without lock core (omit last two digits of part number) (to be ordered separately see page 158)	~	33	63	73

Tool Operated

H Head Styles



Slotted



8 (.32)
Hex recess



7 (.28)
Triangle



8 (.32)
Triangle



7 (.28)
Square



8 (.32)
Square



3 (.11)
Double bit



5 (.19)
Double bit



8 (.32)
Square
recess



Bellcore
216



Bellcore
electronics



Recessed slot
(tamper
resistant)



Railway
standard

E5 - 6 - H F - R 0

F Finish

- 2 Bright chrome
- 5 Black powder coated

H Head style

- 00 Slotted
- 01 8 (.32) Hex recess
- 02 7 (.28) Triangle
- 03 8 (.32) Triangle
- 04 7 (.28) Square
- 05 8 (.32) Square
- 06 3 (.11) Double bit
- 07 5 (.19) Double bit
- 08 8 (.32) Square recess
- 13 Bellcore 216
- 19 Bellcore electronics
- 21 Recessed slot (tamper resistant)
- 22 Railway standard

R Rotation

- 51 Type A single point (for visual identification, cam stamped A or B)
- 52 Type B single point (for visual identification, cam stamped A or B)
- TR Type A two point (order actuator separately)
- TL Type B two point (order actuator separately)

Part Number Selection

Latch supplied fully assembled



E5 Cam Latch

Zinc · Tool or hand operated
Fixed grip · Mini size



Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info 051 4171115 - luca.chiarelli@rivit.it

- Single hole install
- Compact size
- Minimal panel intrusion

Material and Finish

Zinc alloy, powder coated and steel, zinc plated

Performance Details

Maximum static load: 130 N (29 lbf)

Installation Notes

Mounting nut maximum tightening torque: 5 N·m (45 in-lbf)

Screw Maximum tightening torque: 1 N·m (9 in-lbf)

Sealing Notes

NEMA 4 / IP65 achieved using gasket supplied

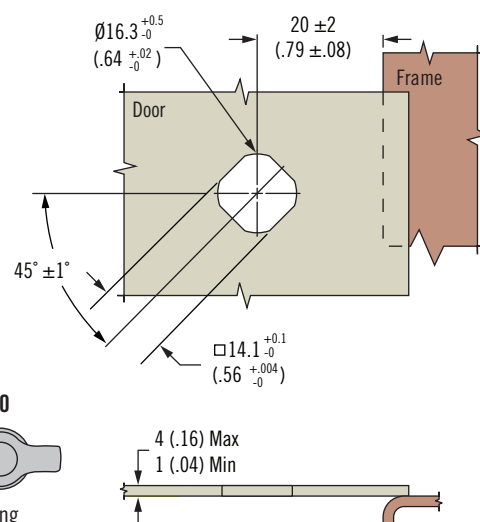
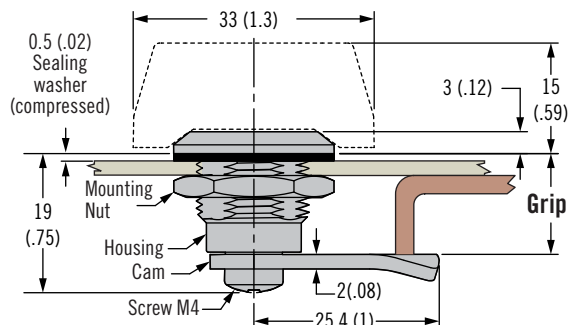
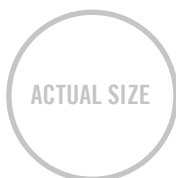
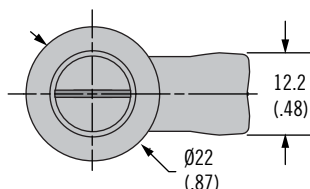
Key part numbers

6mm (.24) Triangle
E3-19-3
6mm (.24) Square
E3-20-3

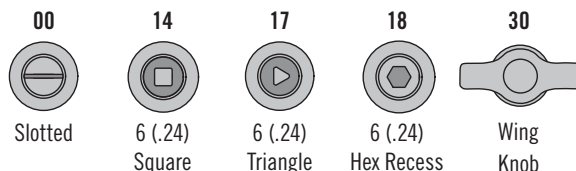


Part Number Selection

Order latch and cam separately



H Head style



Latch Part Number (no cam)

E5 - M - H F - UU1

- F Finish**
- 2 Bright chrome
 - 5 Black powder coated

- H Head style**
- 00 Slotted
 - 14 Square 6mm
 - 17 Triangle 6mm
 - 18 Hex Recess 6mm
 - 30 Wing Knob

Cam Part Number Table (order separately from latch)			
Grip	Part Number	Grip	Part Number
4 (.16)	E5-3005	16 (.63)	E5-3011
6 (.24)	E5-3006	18 (.71)	E5-3012
8 (.31)	E5-3007	20 (.79)	E5-3013
10 (.39)	E5-3008	22 (.87)	E5-3014
12 (.47)	E5-3009	24 (.94)	E5-3015
14 (.55)	E5-3010	26 (1.02)	E5-3016



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Dimensions in millimeters (inch) unless otherwise stated

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E5 Cam Latch Accessories

Keys and Flush Mount Bracket



Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)
Per info 051 4171115 - luca.chiarelli@rivit.it

Material and Finish

Tool key: Zinc alloy or nylon
Overmolded key: Nickel plated and ABS plastic black
Flat key: Nickel plated

Overmolded Keys



Flat Keys

Key CH751



Part Number

Overmolded key CH751:
Single: PK-10-10-05
Pair: PK-10-01-05
Overmolded key R001:
Single: PK-10-10-05-KR001
Pair: PK-10-01-05-KR001
Flat key
Pair: PK-10-01

Material and Finish

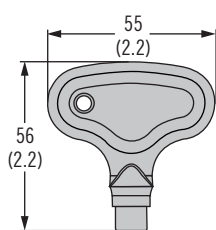
Stainless steel or galvanized steel with rubber o-ring

Notes

For use with tool operated standard series cam latches, see pages 118-119, 121, 127

See page 91 for door preparation dimensions

Keys Zinc or Nylon



E3 - H - F

F Finish

- 1 Plated zinc
- 2 Natural zinc
- 3 Nylon, black

H Head style

- | | | | |
|----|-----------------------|----|----------------------|
| 2 | 3 (.11) Double bit | 3 | 7 (.28) Triangle |
| 4 | 7 (.28) Square | 7 | 8 (.32) Triangle |
| 8 | 8 (.32) Square recess | 9 | 5 (.19) Double bit |
| 10 | 8 (.32) Square male | 11 | Bellcore electronics |
| 12 | Bellcore 216 | | |

Flush Cup

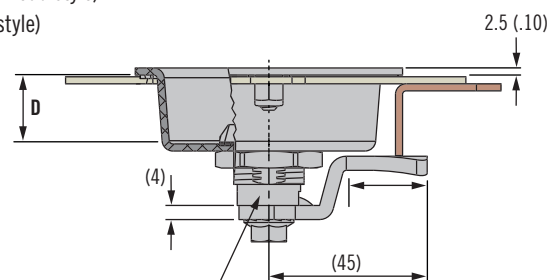
D Depth

- 1 19mm (for wingknob head style)
- 2 4mm (for tool head style)

E5 - 2 M - 60 D - 5

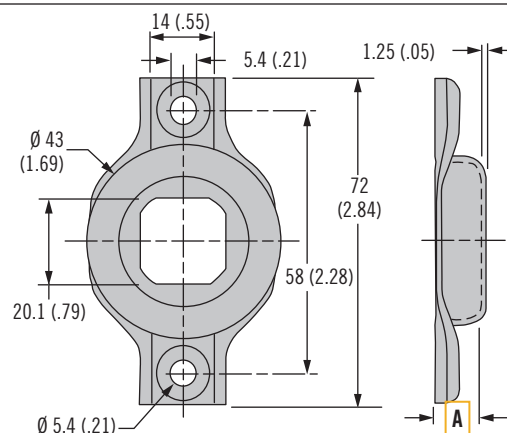
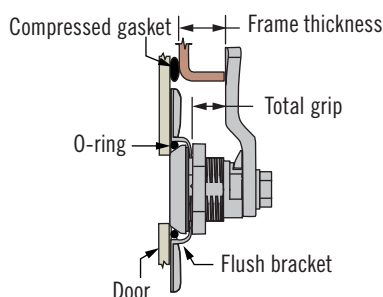
M Mounting Style

- 0 M5 Studs
- 1 Through hole



To calculate total grip, add cup depth (D) to latch grip

Flush Mount Bracket



A	Part Number	Material
6.6	E5-77-1-12	Galvanized steel
6.6	E5-77-1-24	304 Stainless steel

To calculate the **Total Grip**, use the following formula: **Frame Thickness + Compressed Gasket - A**.
Use this **Total Grip** with the appropriate E5 tables in the *SOUTHCO* Handbook to determine cam type.

Dimensions in millimeters (inch) unless otherwise stated



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