Multi-Point Systems

Multi-point latching systems provide a convenient solution for large door spans, with a single user touch point operating multiple latching points. Providing multiple points of engagement alleviates door flexing and rattling, and eliminates pry points on doors with longer spans. Over-center mechanisms provide the ultimate in consistent compression along the entire edge of the enclosure door. Available with a choice of stylish actuators and security options to suit all your application requirements.

M3 Adjustable Compression
- Designed for NEMA/IP rated enclosures
- Multiple security options
- Each latch fully adjustable for perfect door trim

CR Compression Swinghandle
- Designed for NEMA/IP rated enclosures
- Multiple security options
- Designed with center point compression and heavy-duty adjustable rod roller system

F2 Lift Handle
- Designed for indoor enclosures and installed outside the sealed area

H3 Swinghandle
- Designed for NEMA/IP rated enclosures
- Multiple actuator styles
- Suitable for A5 modular rod system
- Linear actuator assembly for limited space application

Dimensions in millimeters (inch) unless otherwise stated
SOUTHCO® rod systems are a simple add-on option for many single-point latches to provide multi-point latching for added strength and security, eliminating pry points, flexing and rattle. Available with a variety of stylish actuators and security options to suit all your enclosure requirements.

In this handbook, where a latch product page displays the multi-point icon, it indicates that you can add a rod system of your choice.

A rod system will require the center latching device to be ordered separately and the rod system components to be ordered from the same family.

### COMPATIBLE PRODUCT CLASS FAMILIES

<table>
<thead>
<tr>
<th>EAS</th>
<th>COMPRESSION</th>
<th>CAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3 - EM</td>
<td>E3 Large</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>M1</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>E5</td>
<td>H3</td>
</tr>
<tr>
<td></td>
<td>92</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>01</td>
<td>24</td>
</tr>
</tbody>
</table>

**A5 Modular Rod System**

Adjustable rod system (shown with H3 swing handle latch)
Multi-Point Latching Systems
Selection guide

Use this selection guide to help make the right choice of multi-point system for your application.

### COMPLETE SYSTEMS

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Latch</th>
<th>MATERIAL</th>
<th>Product Class</th>
<th>Zinc and Steel, Zinc Plated</th>
<th>Zinc and Stainless Steel</th>
<th>Plastic and Steel, Zinc Plated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>M3</td>
<td>✅</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CR</td>
<td></td>
<td>✅</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>F2</td>
<td></td>
<td></td>
<td>✅</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H3</td>
<td></td>
<td>✅</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions in millimeters (inch) unless otherwise stated**

### ROD SYSTEMS

<table>
<thead>
<tr>
<th>Product Class</th>
<th>MATERIAL</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zinc Actuator with Plated Steel Rod</td>
<td>Zinc Plated Steel actuator with Aluminium Rod</td>
</tr>
<tr>
<td>A5</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td>A5 - A8</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td>H3 Linear Actuator</td>
<td>✅</td>
<td></td>
</tr>
</tbody>
</table>

Other options available. For complete details on variety, part numbers, installation and specification, go to [www.southco.com](http://www.southco.com).
| PERFORMANCE |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| **Maximum Static Load** | **NEMA / IP Rated** | **Compression** | **Grip Range** | **Key-Locking** | **Tool Secured** | **Padlockable** | **Electronic Access** | **Concealed** | **Flush/ Low Profile** |
| 890 N (200 lbf) | ✔ | 5 (.197) | 3.5 - 20 (.14 - .79) | ✔ | ✔ | ✔ | ✔ | ✔ |
| 500 N (112 lbf) | ✔ | 5 (.197) | 5 - 124 (.197 - 4.88) | ✔ | ✔ | ✔ | ✔ |
| 100 N (22 lbf) | ✔ | 12 (.47) | 15 - 25 (.59 - .98) | ✔ | ✔ |
| 250 N (56 lbf) | ✔ | 10.3 - 50.9 (.41 - 2) | ✔ | ✔ | ✔ | ✔ |

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>COMPATIBLE PRODUCT CLASS FAMILIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS PAGES 38-39</td>
</tr>
<tr>
<td>H3 - EM</td>
</tr>
</tbody>
</table>
M3 Compression System
Remote compression latch

- Consistent compression driven by rotational rod
- Adjustable grip
- Meets NEMA 4 / IP66 and EMI standards
- Can be driven by hand, tool or key-locking actuators

Material and Finish
Zinc alloy and steel, zinc plated

Performance Details
Max. static load: 890 N (200 lbf) per latch
Average ultimate load: 1335 N (300 lbf)

Grip range
Cam forward
3.5 (.14) to 10.2 (.40)

Cam reversed
10.2 (.40) to 20 (.79)

Notes
Do not exceed 20 (.79) grip range with cam reversed

Part Number
The complete system consists of:
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)

Order each component separately

Dimensions in millimeters (inch) unless otherwise stated

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3-50</td>
<td>Remote compression latch</td>
</tr>
<tr>
<td>M3-51</td>
<td>Keeper (optional) use for grip ranges 15 – 30 (.59 – 1.18)</td>
</tr>
</tbody>
</table>

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/M3

www.aboveboardelectronics.com

1-800-453-1692
M3 Compression System
Actuators · Lift handle

Lift Handle
Locking options

- Southco keylock
- Bellcore electronics
- Bellcore 216
- DIN profile

Dimensions in millimeters (inch) unless otherwise stated

- Suitable for left and right side latching
- Meets NEMA 4/ IP66 and EMI standards
- Ejecting handle

Material and Finish
Zinc alloy black powder coated and steel, zinc plated

Sealing Notes
NEMA 4 / IP66 achieved using gasket supplied

DIN Profile Key Part
M3-0-36406

Part Number Selection

- Actuator only
- The complete system consists of: Remote compression latch and/or optional keeper (see page 178)
- Actuator (see page 179-182)
- Rods (see page 183)

Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/M3

1-800-453-1692

www.aboveboardelectronics.com

---

P Padlock option
O Non padlock
I Padlockable

M3 - 40 - L P - D

D Door thickness range
10 1.5 - 3 (.06 - .12)
11 3 - 4.5 (.12 - .18)
25 24 - 25.5 (.94 - 1.0)

L Lock style
10 Key-locking keyed alike CH751 (two keys supplied)
11 DIN profile supplied keyed alike 347876 (three keys supplied)
12 DIN lock CH751
13 Push button
16 Bellcore 216
17 Bellcore electronics
**M3 Compression System**

**Actuators - Push-button handle**

- Suitable for left and right side latching

**Material and Finish**
Zinc alloy, black powder coated and steel, zinc plated

**Sealing Notes**
NEMA 4 / IP66 achieved using optional gaskets (ordered separately)

---

**Push-Button Handle**

```
<table>
<thead>
<tr>
<th>Actuator</th>
<th>Door Thickness Range</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push-button handle</td>
<td>0 - 5 (.20)</td>
<td>M3-90</td>
</tr>
<tr>
<td></td>
<td>5 - 10 (.20 - .39)</td>
<td>M3-92</td>
</tr>
<tr>
<td>Push-button handle with key-lock</td>
<td>0 - 5 (.20)</td>
<td>M3-91</td>
</tr>
<tr>
<td></td>
<td>5 - 10 (.20 - .39)</td>
<td>M3-93</td>
</tr>
</tbody>
</table>
```

**Sealing Gasket Part Number**
C5-82

---

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/M3

www.aboveboardelectronics.com

1-800-453-1692

---
M3 Compression System
Actuators · Paddle handle

- Suitable for left and right side latching

Material and Finish
Zinc alloy, black powder coated and steel, zinc plated

Sealing Notes
NEMA 4 / IP66 achieved using gasket supplied

Dimensions in millimeters (inch) unless otherwise stated

**Part Number**
Actuator and gaskets only see table
The complete system consists of:
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)
Order each component separately

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddle (includes bracket and screws)</td>
<td>M3-10</td>
</tr>
<tr>
<td>Paddle with key-lock (includes bracket and screws)</td>
<td>M3-17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gasket Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>M3-12</td>
</tr>
<tr>
<td>EMC</td>
<td>M3-13</td>
</tr>
</tbody>
</table>

Request Info
1-800-453-1692
www.aboveboardelectronics.com
www.southco.com/M3
M3 Compression System
Actuators · Door edge lever · Concealed

- Simple actuator for top or bottom of door

**Material and Finish**
Door edge lever: Zinc alloy, black powder coated and steel, zinc plated
Adapter: Zinc alloy, chemical protective film
Concealed: Zinc alloy, chemical protective film

**Notes**
Concealed: Operated by 8mm hex wrench (not supplied)

---

**Dimensions in millimeters (inch) unless otherwise stated**

**Door Edge Lever**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>194.4</td>
<td>7.65</td>
</tr>
<tr>
<td>Diameter</td>
<td>11</td>
<td>.44</td>
</tr>
</tbody>
</table>

**Concealed**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>11</td>
<td>.44</td>
</tr>
</tbody>
</table>

**Part Number**

Actuator only see table

The complete system consists of:
Remote compression latch
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)

Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/M3

---

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever</td>
<td>A</td>
<td>M3-31</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>M3-32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex socket with O-ring seal</td>
<td>M3-30</td>
</tr>
</tbody>
</table>
M3 Compression System
Rods and Calculator

Hexagonal Rod

<table>
<thead>
<tr>
<th>Hex Rod Length</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 cm</td>
<td>M3-125</td>
</tr>
<tr>
<td>155 cm</td>
<td>M3-155</td>
</tr>
<tr>
<td>185 cm</td>
<td>M3-185</td>
</tr>
</tbody>
</table>

Calculator
To determine the minimum number of remote compression latches you require along the door edge:

\[
N = \frac{L \times R}{470}
\]

- \(N\) = Number of compression latches along door edge (rounded to the nearest whole number)
- \(L\) = Total length of gasketing material in millimeters
- \(R\) = Gasket compression rate in \(N / mm\)

Example: \(5200 \text{ mm} \times 0.3 \text{ N/mm} = 3.28 \approx 3\) latches

Remote compression latches should be evenly spaced along edge of door.
Dimensions in millimeters (inch) unless otherwise stated.

Material and Finish
Stainless steel, natural

Notes
If you choose to use your own rods, they should have no more than 1 degree of twist in any meter length.

Part Number
Rod only see table
The complete system consists of:
Remote compression latch and/or optional keeper (see page 178)
Actuator (see pages 179-182)
Rods (see page 183)
Order each component separately

Calculation Notes
Once you have completed the calculation please order the following parts:
- 1 x Actuator
- 1 or 2 rods to correct length
- Number of compression latches determined from calculation

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/M3
CR Compression System
Swinghandle actuator

- Consistent compression
- Adjustable grip
- Meets NEMA 4 / IP66 and EMI standards

Material and Finish
Handle actuator: Zinc alloy black powder coated
Mounting hardware: Acetal black, stainless steel and brass

Performance Details
Maximum static load: 500 N (110 lbf) per latch point
Average ultimate load: 1400 N (315 lbf)

Part Number Selection
See table
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/CR

CR - 19 - L - R 5

L Lock style
11 Keylocking keyed alike CH751 (2 keys supplied)
21 Keylocking keyed alike CH751 (2 keys supplied) and padlock hasp
32 DIN 183 A4 profile keyed alike 347876 (3 keys supplied)
44 Bellcore electronics
45 Bellcore 216
54 Bellcore electronics and padlock hasp
55 Bellcore 216 and padlock hasp

R Rotation
1 Universal 180°
2 Counter-clockwise 90°
3 Clockwise 90°

Dimensions in millimeters (inch) unless otherwise stated
Cam
See page 184 for definition of cam grip

Cam Grip Range

<table>
<thead>
<tr>
<th>Cam Part Number</th>
<th>Offset A</th>
<th>Cam Forward</th>
<th>Cam Reversed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-846-1000-24</td>
<td>0 (0.0)</td>
<td>56.5 - 62 (2.23 - 2.44)</td>
<td></td>
</tr>
<tr>
<td>CR-846-1005-24</td>
<td>5 (.20)</td>
<td>51.5 - 57 (2.03 - 2.25)</td>
<td>61.5 - 67 (2.42 - 2.64)</td>
</tr>
<tr>
<td>CR-846-1010-24</td>
<td>10 (.39)</td>
<td>46.5 - 52 (1.83 - 2.05)</td>
<td>66.5 - 72 (2.62 - 2.84)</td>
</tr>
<tr>
<td>CR-846-1015-24</td>
<td>15 (.59)</td>
<td>41.5 - 47 (1.64 - 1.85)</td>
<td>71.5 - 77 (2.82 - 3.03)</td>
</tr>
<tr>
<td>CR-846-1020-24</td>
<td>20 (.79)</td>
<td>36.5 - 42 (1.44 - 1.66)</td>
<td>76.5 - 82 (3.01 - 3.23)</td>
</tr>
<tr>
<td>CR-846-1025-24</td>
<td>25 (.98)</td>
<td>31.5 - 37 (1.24 - 1.46)</td>
<td>81.5 - 87 (3.21 - 3.43)</td>
</tr>
<tr>
<td>CR-846-1030-24</td>
<td>30 (1.18)</td>
<td>26.5 - 32 (1.05 - 1.26)</td>
<td>86.5 - 92 (3.41 - 3.62)</td>
</tr>
<tr>
<td>CR-846-1035-24</td>
<td>35 (1.38)</td>
<td>21.5 - 27 (0.85 - 1.07)</td>
<td>91.5 - 97 (3.60 - 3.82)</td>
</tr>
<tr>
<td>CR-846-1040-24</td>
<td>40 (1.58)</td>
<td>16.5 - 22 (0.65 - 0.87)</td>
<td>96.5 - 102 (3.80 - 4.02)</td>
</tr>
<tr>
<td>CR-846-1045-24</td>
<td>45 (1.77)</td>
<td>11.5 - 17 (0.46 - 0.67)</td>
<td>101.5 - 107 (3.99 - 4.22)</td>
</tr>
<tr>
<td>CR-846-1050-24</td>
<td>50 (1.97)</td>
<td>6.5 - 12 (0.26 - 0.47)</td>
<td>106.5 - 112 (4.19 - 4.41)</td>
</tr>
</tbody>
</table>

Assembly

Select rod end offset to ensure rod travels parallel to inside surface of door ±5 degree max.

Material and Finish
Stainless steel

Part Number
Cam see table

The complete system consists of:
Actuator (see page 184)
Cam (see page 185)
Rod end (see page 186)
Rods (see page 186)
Rod guide (see page 186)

Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/CR
**Material and Finish**

Rod end: Stainless steel and nylon, black

Rod: Aluminum

Rod guide: Brass

**Notes**

Rod end: When more than one rod end fits desired rod end grip range select the part number with the lowest offset value

Rod: Sold separately without mounting hole, in standard length of 1000 (39.37). Rod will need to be cut to desired lengths and mounting holes Ø 8.5 (.33) drilled. Minimum 300 (11.81), Maximum 1000 (39.37)

Rod guide: M6 thread with prevailing torque for vibration resistance

**Part Number**

Rod end, rod and rod guides see tables

The complete system consists of:

Actuator (see page 184)

Cam (see page 185)

Rod end (see page 186)

Rods (see page 186)

Rod guide (see page 186)

Order each component separately

---

For your specific application requirement use Southco’s online configurator, visit www.southco.com/CR or contact Southco

---

**Example:**

Rod end grip = 40 (1.57)

Rod end offset = +15 (.59)

Stud Length = 40 (1.57) - 1.5 (.06) = 38.5 (1.51)

---

**Other options available. For complete details on variety, part numbers, installation and specification, go to [www.southco.com/CR](http://www.southco.com/CR)**

---

**CR Compression System**

**Rod end • Rod • Rod guide • Installation**

---

**Rod End Grip when used with 1000 (39.37) rod**

<table>
<thead>
<tr>
<th>Offset</th>
<th>Formula for Stud Length $\frac{L}{2} + \frac{d}{2}$</th>
<th>Rod End Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30 (1.18)</td>
<td>Distance from front of door to the end of the threaded stud (not supplied)</td>
<td>CR-51-30-24</td>
</tr>
<tr>
<td>+15 (.59)</td>
<td>Rod end grip</td>
<td>CR-51-15-24</td>
</tr>
<tr>
<td>0 (0)</td>
<td>Rod end grip</td>
<td>CR-50-01-24</td>
</tr>
<tr>
<td>-30 (1.18)</td>
<td>Rod end grip</td>
<td>CR-52-30-24</td>
</tr>
</tbody>
</table>

---

**Rod Part Number**

CR-64-1000-50

---

**Rod Guide Part Number**

CR-843-01-26
Installation

Single Skin Door View From Front

Frame

- M6 threaded stud location x 2 (not supplied)
- 38±0.5 (1.5±.02) From frame edge
- Outer door skin
- Ø 35±0.2 (1.38±.008)
- 176.5±0.2 (6.95±.008)
- Actuator & Rods centerline

Double Skin Door View From Front

Frame

- M6 threaded stud location x 2 (not supplied)
- 38±0.5 (1.5±.02) From frame edge
- Outer door skin
- Ø 35±0.2 (1.38±.008)
- 176.5±0.2 (6.95±.008)
- Rod end grip
- Actuator & Rods centerline (For actuator installation information go to www.southco.com/CR)

View From Rear

Inner door skin
- 38±0.5 (1.5±.02) From frame edge
- 48 (1.89)
- 24 (0.95)
- Rod actuator centerline
- 39±0.5 (1.54±.02) From frame edge

Total door thickness
- Single point maximum 54.5 (2.15)
- Multi-point maximum 37.5 (1.48)

Outer door skin thickness
- Minimum 1.5 (.06)
- Maximum 4.5 (.18)

Inner door skin
- Minimum 1.5 (.06)
- Maximum 4.5 (.18)

Dimensions in millimeters (inch) unless otherwise stated
F2 Compression System
System integration

- Designed for indoor enclosures
- Operates outside the enclosure’s seal
- Installs close to the door edge
- System engages when door is up to 15 mm (.59 in) away from the closed position

Notes
One complete system consists of:
One actuator assembly
(see page 189)
Two rod assemblies
(see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Dimensions in millimeters (inch) unless otherwise stated

www.southco.com/F2

Above Board Electronics, Inc.
Dimensions in millimeters (inch) unless otherwise stated

**F2 Compression System**

**Surface and flush actuators**

- **Designed for indoor enclosures**
- **Operates outside the enclosure’s seal**
- **System engages when door is up to 15 mm (.59 in) away from the closed position**

**Material and Finish**
- PC/ABS plastic, black
- Zinc alloy and steel, zinc plated

**Performance Details**
- Max. static load: 100 N (22 lbf) per latch point
- 500 N (112 lbf) for entire system
- Flammability rating: UL94-VO for all plastic components

**Accessories**
- Flat key keyed alike CH751 (2 keys per ring)
  - Part number: PK-10-01
- Overmolded key keyed alike CH751 (2 keys per ring)
  - Part number: PK-10-01-05
- Plain key SC001 (2 keys per ring)
  - Part number: FK-KEY-SC001

**Part Number**

Actuator only see table

One complete system consists of:
- One actuator assembly (see page 189)
- Two rod assemblies (see pages 190-191)

Keepers (quantity depends on no. of latches specified; see page 191)

Order each component separately

---

### Lock Style | Surface Actuator Part Number | Flush Actuator Part Number
---|---|---
Non-locking | F2-20-17 | F2-20-12
Key-locking keyed alike SC001 (two keys supplied) | F2-20-18 | F2-20-13
Key-locking keyed alike CH751 (two keys supplied) | F2-20-19 | –

---

**Request Info**

**1-800-453-1692**

www.aboveboardelectronics.com

www.southco.com/F2
**F2 Compression System**

Rod assembly · High compression

- Multiple lengths and latching point locations
- Latching mechanisms engage keepers when door is up to 15 mm (.59 in) away from the closed position

**Material and Finish**
PC/ABS plastic black, zinc alloy and steel, zinc plated

**Installation Notes**
Latch installation stud is not supplied. Use M5 press-in studs or non-flanged weld studs. Length is 6 (.24) to 10 (.39) Maximum, measured from inside surface of the door. Example: F2-10-625-25

**Stud must be positioned within 0.2 (.008) of nominal**

**Part Number**
High compression rod assembly only
see table

One complete system consists of:
- One actuator assembly (see page 189)
- Two rod assemblies (see pages 190-191)
- Keepers (quantity depends on no. of latches specified; see page 191)

Order each component separately

---

<table>
<thead>
<tr>
<th>Rod Length</th>
<th>Latch Installation Stud Locations from Centerline of Actuator</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>F2-10-125-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-250-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-375-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-500-14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-625-25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-750-26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-750-36</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F2-10-875-37</td>
</tr>
</tbody>
</table>

- M5 Stud location
- Latching mechanisms engage keepers when door is up to 15 mm (.59 in) away from the closed position

Dimensions in millimeters (inch) unless otherwise stated

- No Latch Point
- Actuator Connection
- Latch Point
- Latch Stud Location

---

Other options available. For complete details on variety, part numbers, installation and specification, go to

www.southco.com/F2

---

www.aboveboardelectronics.com

Request Info 1-800-453-1692
F2 Compression System
Rod assembly • Flexible

Dimensions in millimeters (inch) unless otherwise stated

Material and Finish
Glass-filled nylon black, brass and steel, zinc plated

Part Number
Rod and cam assembly only see table
The complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/F2

F2 Compression System
Keeper

Keeper roller provides for smooth operation

Notes
Order one keeper per latching point

Part Number
Keeper only see table
One complete system consists of:
One actuator assembly (see page 189)
Two rod assemblies (see pages 190-191)
Keepers (quantity depends on no. of latches specified; see page 191)
Order each component separately

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/F2

Cam Assembly Part Number
Hardware pack assembly contains 1 x cam, washer and shoulder nut (order 1 hardware pack per latching point)
F2-50-1

Rod Length
125 (4.92) F2-11-125-19
250 (9.84) F2-11-250-19
375 (14.76) F2-11-375-19
500 (19.69) F2-11-500-19
625 (24.61) F2-11-625-19
750 (29.53) F2-11-750-19
875 (34.45) F2-11-875-19

Grip Part Number X Rod System Compatibility

F2 Compression System
Keeper

Keeper

Dimensions in millimeters (inch) unless otherwise stated

Grip
Part Number
X
Rod System Compatibility
High Compression Flexible

15 (.59) F2-30-15 11.5 (.45) ✓ –
19 (.75) F2-30-19 15.5 (.61) ✓ ✓
20 (.79) F2-30-20 16.5 (.65) ✓ ✓
22 (.87) F2-30-22 18.5 (.73) ✓ ✓
25 (.98) F2-30-25 21.5 (.85) ✓ ✓
**H3 Swinghandle System**
Medium / large · Sealed / non-sealed

- Zinc alloy swinghandle system
- Multiple locking options; including DIN profile
- Indoor/outdoor version
- Available for medium (125mm x 25mm) and large (150mm x 25mm) door cutout
- Linear and rotational systems available

**Material and Finish**
Handle: Zinc alloy, black powder coated or satin chrome plated
Cam: Steel, zinc plated

**Performance Details**
Maximum static load: 250 N (56 lbf)

**Sealing Notes**
Sealed version meets NEMA 4/IP66 water intrusion standards

**Keys**
See page 130

**Notes**
Key removal in unlocked position only available on non-sealed version
Product available to meet TELCORDIA® GR-487 contact
Southco for details
Electromechanical swinghandle available see pages 38-39
For single point and actuator plate system see pages 144-145
For dimension details of DIN lock version, please contact Southco
For plastic version see page 196.

TELCORDIA is a registered trademark of Telcordia Technologies Inc.

Other options available. For complete details on variety, part numbers, installation and specification, go to
www.southco.com/H3

---

**Sealed (H3-50 medium shown)**
(Also available in large. See part number selection)

**Non-Sealed (H3-60 large shown)**
(Also available in medium. See part number selection)

Dimensions in millimeters (inch) unless otherwise stated
Dimensions in millimeters (inch) unless otherwise stated

**Medium H3-50**

<table>
<thead>
<tr>
<th>Size</th>
<th>Lock style</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 ± 0.008</td>
<td>30 1.204</td>
<td>0.001</td>
</tr>
<tr>
<td>50 ± 0.016</td>
<td>50 1.97</td>
<td>0.016</td>
</tr>
<tr>
<td>125 ± 0.009</td>
<td>4.92</td>
<td>0.009</td>
</tr>
</tbody>
</table>

**Large H3-60**

<table>
<thead>
<tr>
<th>Size</th>
<th>Lock style</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 ± 0.008</td>
<td>30 1.204</td>
<td>0.001</td>
</tr>
<tr>
<td>50 ± 0.016</td>
<td>50 1.97</td>
<td>0.016</td>
</tr>
<tr>
<td>150 ± 0.009</td>
<td>5.92</td>
<td>0.009</td>
</tr>
</tbody>
</table>

**Grip With Linear Actuator**

<table>
<thead>
<tr>
<th>Grip With Linear Actuator</th>
<th>Grip With Actuator Plate</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>~ 10.3 (0.41)</td>
<td>E5-6107</td>
<td></td>
</tr>
<tr>
<td>~ 12.3 (0.48)</td>
<td>E5-6108</td>
<td></td>
</tr>
<tr>
<td>24.9 (0.98)</td>
<td>14.3 (0.56)</td>
<td>E5-6109</td>
</tr>
<tr>
<td>26.9 (1.06)</td>
<td>16.3 (0.64)</td>
<td>E5-6110</td>
</tr>
<tr>
<td>28.9 (1.14)</td>
<td>18.3 (0.72)</td>
<td>E5-6111</td>
</tr>
<tr>
<td>30.9 (1.22)</td>
<td>20.3 (0.80)</td>
<td>E5-6112</td>
</tr>
<tr>
<td>32.9 (1.30)</td>
<td>22.3 (0.88)</td>
<td>E5-6113</td>
</tr>
<tr>
<td>34.9 (1.37)</td>
<td>24.3 (0.96)</td>
<td>E5-6114</td>
</tr>
</tbody>
</table>

**Grip With Actuator Plate**

<table>
<thead>
<tr>
<th>Grip With Actuator Plate</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.9 (1.45)</td>
<td>26.3 (1.04)</td>
</tr>
<tr>
<td>38.9 (1.53)</td>
<td>28.3 (1.11)</td>
</tr>
<tr>
<td>40.9 (1.61)</td>
<td>30.3 (1.19)</td>
</tr>
<tr>
<td>42.9 (1.69)</td>
<td>32.3 (1.27)</td>
</tr>
<tr>
<td>44.9 (1.76)</td>
<td>34.3 (1.35)</td>
</tr>
<tr>
<td>46.9 (1.85)</td>
<td>36.3 (1.43)</td>
</tr>
<tr>
<td>48.9 (1.93)</td>
<td>38.3 (1.51)</td>
</tr>
<tr>
<td>50.9 (2.00)</td>
<td>40.3 (1.59)</td>
</tr>
</tbody>
</table>

**Latch Part Number (no cam)**

<table>
<thead>
<tr>
<th>T Size</th>
<th>S Sealing option</th>
<th>F Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Medium - 152 (5.98) length</td>
<td>0 Non-sealed</td>
<td>44 Satin chrome</td>
</tr>
<tr>
<td>60 Large - 177 (6.97) length</td>
<td>1 Sealed</td>
<td>50 Black powder coated</td>
</tr>
</tbody>
</table>

**Actuator style**

1. No padlock hasp for use with linear actuator (see page 194)
2. With padlock hasp for use with linear actuator (see page 194)
3. No padlock hasp for use as single point or with actuator plate (see page 195)
4. With padlock hasp for use as single point or with actuator plate (see page 195)

**Finish**

1. DIN without Lock Plug
2. 3 mm Double-bit
3. 5 mm Double-bit
4. Bellcore 216
5. Bellcore Hex-Pin Recess
6. 8 mm triangle
7. DIN profile 3 mm Double-bit
8. DIN profile 5 mm Double-bit
9. DIN profile Bellcore 216
10. DIN Profile Bellcore Hex-Pin Recess
11. DIN profile 8 mm triangle

**Other options available. For complete details on variety, part numbers, installation and specification, go to**

www.southco.com/H3

---

**Part Number Selection**

For single point:
Order latch and cam separately (see page 144-145)

For multi-point:
Latch and cam (if 3 point latching required)
Linear actuator and rod adaptors (see page 194)
Rods (see pages 198-201)
Rod guides (see pages 198-201)

**Note**

*2 Overmolded keys supplied
**H3 Linear Actuator**
Linear actuator and rod adaptor

- Linear actuator for H3 swinghandles
- Linear rod travel for limited space
- Suitable for left and right hand applications

**Material and Finish**
Zinc alloy and steel, zinc plated

**To Select Linear actuator and Rod Adaptor:**
For use with H3-50 and H3-60 swinghandles (see pages 192-193)
Order linear actuator and rod adaptors separately (1 actuator and 2 adaptors required per latch)

**Accessories**
Replacement rod adaptor retainer pin part number: H3-0-44778-01

**Part Number**
Linear actuator and rod adaptors see table
For multi-point order:
Latch (see pages 192-193)
Cam (if 3 point latching required) (see page 193)
Linear actuator and rod adaptor (see table)
Rods (see pages 198-201)
Rod guides (if required) (see page 198)

For complete details on variety, part numbers, installation and specification, go to
www.southco.com/H3

---

**Linear Actuator**

<table>
<thead>
<tr>
<th>Linear Actuator</th>
<th>Closed Position</th>
<th>Open Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod adaptor retainer pin (2 supplied)</td>
<td>Rod adaptor retainer pin (2 supplied)</td>
<td>Rod adaptor retainer pin (2 supplied)</td>
</tr>
</tbody>
</table>

**Rod Adaptor**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.4 (0.251)</td>
<td>8.8 (0.35)</td>
</tr>
<tr>
<td>10.8 (0.43)</td>
<td>35 (1.38)</td>
</tr>
<tr>
<td>8.6±0.2 (0.34±.01)</td>
<td>17.5 (0.69)</td>
</tr>
<tr>
<td>14.7 (0.58)</td>
<td></td>
</tr>
</tbody>
</table>

---

**Dimensions in millimeters (inch) unless otherwise stated**

**Part Number**

| Linear actuator | H3-51-40
| Rod adaptor    | A5-92-201-31

---

**Request Info**

1-800-453-1692
www.aboveboardelectronics.com
A5 Modular System
Actuator plates

Dimensions in millimeters (inch) unless otherwise stated

### Actuator Plate
A5-90-101-11

- **C-Clip**: 8.1 (.32)
- **Adapter**: 93.6 (3.69)
- **Actuator plate**: 28.8 (.11)
- **Set screw**: 16 (.71)
- **Pin**: 3.5 (.14)

### A5-90-301-11

- **C-Clip**: 6.6 (.26)
- **Adapter**: 8.2 (.32)
- **Actuator plate**: 16 (.71)
- **Set screw**: 16.4 (.65)

### Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5-90-101-11</td>
<td>22.2 (0.87)</td>
<td>4.7 (0.18)</td>
</tr>
<tr>
<td>A5-90-104-11</td>
<td>25.2 (0.99)</td>
<td>7.7 (0.30)</td>
</tr>
<tr>
<td>A5-90-401-11</td>
<td>22.6 (0.89)</td>
<td>5.1 (0.20)</td>
</tr>
<tr>
<td>A5-90-501-11</td>
<td>23.4 (0.92)</td>
<td>5.9 (0.23)</td>
</tr>
</tbody>
</table>

### A5-90-401-11 (Short Cam)

- **C-Clip**: 38 (.150)
- **Adapter**: Actuator cam plate
- **Actuator plate**: 18 (.71)
- **Set screw**: 18.71 (.52)
- **Pin**: 12.6 (.89)

### A5-90-501-11 (Long Cam)

- **C-Clip**: 57 (2.24)
- **Adapter**: Actuator long cam plate
- **Actuator plate**: 38.26 (.33)
- **Set screw**: 28.8 (1.13)
- **Pin**: 23.4 (.92)

### Actuator Plate Part Number

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E5-5</td>
<td></td>
<td></td>
<td>A5-90-101-11</td>
<td>A5-90-301-11</td>
</tr>
<tr>
<td>E5-6</td>
<td></td>
<td></td>
<td></td>
<td>A5-90-401-11</td>
</tr>
<tr>
<td>E5-9</td>
<td></td>
<td></td>
<td></td>
<td>A5-90-501-11</td>
</tr>
<tr>
<td>H3-50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H3-60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62 Series M8 threaded shaft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92 Series M10 threaded shaft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/A5

**Modular actuators to suit multiple latch families using A5 modular rods**

**Material and Finish**

- Zinc alloy, steel, zinc plated and stainless steel set screw

**To Select Correct Actuator:**

1. Choose actuator plate to match latch family (one per latch required)
2. Order rods and rod guides from page 198

**Actuator Plate Part Number**

- Rods (see page 198)
- Rod guides (see page 198)
H3 Swinghandle System
Plastic · Large · Non-sealed

- Lightweight Glass filled nylon swinghandle system UL94-V0 rated
- DIN profile locking options
- Push or turn to close versions available

Material and Finish
Handle: Glass filled nylon
Cam: Steel, zinc plated

Performance Details
Max. static load: 250 N (56 lbf)

Keys
See page 130

Notes
Electromechanical swinghandle available see pages 38-39
For metal version visit pages 144-145 and 192-193

Part Number Selection
For single point:
Order latch and cam separately
For multi-point order:
Latch and cam
Linear actuator and rod adaptors
Rods
Rod guides

Notes
*2 keys supplied

Latch Part Number (no cam)

Style
65 Push to close handle
66 Turn to close handle

H3 - T - 5 L - 0 7 1

Cam Part Number Table

<table>
<thead>
<tr>
<th>Grip</th>
<th>Part Number (length = 38mm)</th>
<th>Part Number (length = 45mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.5 (.61)</td>
<td>ES-6710</td>
<td>ES-6110</td>
</tr>
<tr>
<td>17.5 (.69)</td>
<td>ES-6711</td>
<td>ES-6111</td>
</tr>
<tr>
<td>19.5 (.77)</td>
<td>ES-6712</td>
<td>ES-6112</td>
</tr>
<tr>
<td>21.5 (.85)</td>
<td>ES-6713</td>
<td>ES-6113</td>
</tr>
<tr>
<td>23.5 (.93)</td>
<td>ES-6714</td>
<td>ES-6114</td>
</tr>
<tr>
<td>OTHER</td>
<td>Please contact Southco</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated

Other options available. For complete details on variety, part numbers, installation and specification, go to www.southco.com/H3
**H3 Linear Actuators**

Linear actuators and rod adaptor for plastic H3 swinghandle system

**Panel Preparation**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel thickness</td>
<td>25 (\text{mm}) (0.98 in)</td>
</tr>
<tr>
<td>Cam length</td>
<td>150 (\text{mm}) (5.91 in)</td>
</tr>
<tr>
<td>Cam width</td>
<td>50 (\text{mm}) (1.97 in)</td>
</tr>
<tr>
<td>Cam thickness</td>
<td>5 (\text{mm}) (0.2 in)</td>
</tr>
</tbody>
</table>

**Material and Finish**

- Zinc alloy and steel, zinc plated

**To Select Linear actuator and Rod Adaptor:**

For use with H3-65 and H3-66 swinghandles. Order linear actuator and rod adaptors separately (1 actuator and 2 adaptors required per latch)

**Accessories**

- Replacement rod adaptor retainer pin part number: H3-0-44778-01

**Part Number**

- Linear actuator right hand mounting: H3-61-56-33
- Linear actuator left hand mounting: H3-61-55-33
- Rod adaptor: A5-92-201-31

**Dimensions in millimeters (inch) unless otherwise stated**

- Gearbox: 346 (13.62) \(\text{mm}\)
- Rod adaptor: \(\Phi 6.4 \pm 0.2 (0.251 - 0.08)\)
- Set screw: 8.8 (0.35) \(\text{mm}\)
- Adapter: 10.8 (0.43) \(\text{mm}\)
- Rod: 35 (1.38) \(\text{mm}\)

**Request Info**

1-800-453-1692

www.aboveboardelectronics.com

www.southco.com/H3