Electromechanical Rotary Latches

Overview

R4-EM-9 Series – Full-featured
The microprocessor controlled R4-EM 9 Series delivers next generation electronic rotary latching. All inputs are routed through the internal microprocessor, allowing expanded programming capability and customization of latch functionality. Extended housing provides added protection of the cam and an integrated trigger sensor provides indisputable lock/unlock status reporting. Additionally, the 9 Series offers a door retention feature which allows a door or panel to remain in the closed position until it is ready to be opened.

R4-EM-8 Series – Basic functionality
The R4-EM 8 Series combines the efficient and robust performance of a rotary latch mechanism with simplified DC motor actuation. The R4-EM 8 Series is available with or without an extended housing option to accommodate door sensing and to provide added protection of the locking cam. Additionally, the 8 Series is available with an integrated connector and mechanical override bracket, and features simple, concealed two-hole installation.

R4-EM 5 & 7 Series – Outdoor use
The R4-EM Outdoor provides reliable electronic access control in demanding environments. With its corrosion-resistant plated-steel or stainless steel outer body construction and fully-sealed internal actuator, the R4-EM Outdoor provides reliable electronic locking that is resistant to moisture and dust. The embedded electronic control allows integration with an external control system and flexible, concealed installation accommodates a variety of outdoor applications.

R4-EM 4 & 6 Series – Compact & lightweight
The R4-EM Light Duty delivers proven electronic access control in a compact, lightweight integrated package. Easy push-to-close operation and simple installation make it an ideal solution for transitioning from mechanical to electronic access. The R4-EM Light Duty is available in both auto re-lock and delayed re-lock versions for added flexibility. Multiple mounting configurations and a compact size afford easy integration into existing designs.

R4-EM 1 & 2 Series – All-metal construction
The original, all-metal construction R4-EM delivers the convenience of electronic access control with the security of a proven, robust, all-metal rotary latch. Easy push-to-close operation and electronic actuation simplify access across a wide variety of applications. The R4-EM series accepts access control signals from access control devices as well as networked systems. An optional internal microswitch provides an output signal to remotely monitor latch status or control external systems.

Dimensions in millimeters (inch) unless otherwise stated

- Push-to-close, electronic release
- High electromechanical release load
- Minimal power draw
- Optional door sensor
- Mechanical over-ride
- 12V and 24V options
R4-EM 9 Series Electromechanical Rotary Lock

Door sensor option · Concealed cam
Electronic access with internal motor control

- Push-to-close, electronic release
- High electromechanical release load
- Minimal power draw
- Integrated connector
- Extended housing option for added security
- Optional door sensor
- Microswitch to detect latch status
- Mechanical over-ride with integrated cable bracket
- 12V to 24V operations
- Efficient DC gear motor actuation
- Detent mechanism for pull-open function
- Simple two-hole installation

Latch Wiring Connections

Part Number Selection

R4-EM-9 TBA-1S0-P

T Trigger Styles
A Auto relock, rear trigger, with kick-out spring
D Delayed relock, rear trigger, with kick-out spring
P Delayed relock, rear trigger, pull to open

B Base Mounting Style
1 1/4 - 20 thread
2 M6 thread
3 Ø 7.0 (.27) thru hole

S Sensor
3 No Sensors
4 Door Sensor Only
5 Door and Trigger Sensor
6 Trigger Sensor Only

A Alternate Configurations
None Plastic housing
5 Zinc alloy housing

Packaging Options
None Individually packaged
1 Bulk packaged

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/R4-EM
Installation
Panel Preparation

<table>
<thead>
<tr>
<th>Base Mounting Style</th>
<th>Recommended minimum mounting hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4-20 thread</td>
<td>Ø 7.2 (.283)</td>
</tr>
<tr>
<td>M6 thread</td>
<td>Ø 6.9 (.272)</td>
</tr>
<tr>
<td>Thru hole</td>
<td>Ø 7.6 (.300)</td>
</tr>
</tbody>
</table>

Operation
See page 34 for operating instructions

Accessories
Striker Bolt or Cast Striker
See page 35

Cable Mounting Kit
See page 35

Material & Finish
Top and Bottom housings: PC/ABS or Zinc alloy
Pivot Pins: Steel, zinc plated
Cam, Trigger: Steel, sealed
Springs: Stainless steel passivated
Trigger Interlock Lever: Glass-filled nylon
Bistable Spring Retainer: Zinc Alloy
Drive Cam: Acetal, black
Output Cam: Acetal, white

Electrical Specifications
Recommended Operating Voltage:
- 12 to 24 VDC
Typical Operating Current:
- 12 V Models: Less than 500mA

Latch Connector
Pin Assignment
PIN 1: Ground (-)
PIN 2: Power (+)
PIN 3: Control Signal
PIN 4: Latch Status
PIN 5: None
PIN 6: Door status

Electronic Actuators
See page 42

Mechanical Actuators
See page 36

Cables
See page 272

Wiring/Junctions
See www.southco.com

Dimensions in millimeters (inch) unless otherwise stated

Request Info
1-800-453-1692
www.aboveboardelectronics.com

12V
24V
R4-EM 8 Series Electromechanical Rotary Lock
Door sensor option · Extended housing option
Electronic access without internal motor control

- Push-to-close, electronic release
- Auto relock functionality
- Minimal power draw
- Integrated connector
- Extended housing option for added security
- Optional door sensor
- Microswitch to detect latch status
- Mechanical over-ride with integrated cable bracket
- Efficient DC motor actuation
- Simple two-hole installation

Extended Housing
This version is required when using door sensor.

Standard Housing
(Dimensions are the same as above, except as noted.)

Part Number Selection

R4 - EM - 8 B A - V S 0 - P

B Base Mounting Style
1 1/4-20 thread
2 M6 thread
3 Ø 7.0 (.27) thru hole

A Housing Configurations
None Standard housing
6 Extended housing

S Integrated Door Sensor
3 No
4 Yes (Extended housing only)

V Voltage
2 24 volts
3 12 volts

P Packaging Options
None Individually packaged
1 Bulk packaged

Dimensions in millimeters (inch) unless otherwise stated

www.southco.com/R4-EM

Above Board Electronics, Inc.
1-800-453-1692
www.aboveboardelectronics.com
**Installation**

Panel Preparation

<table>
<thead>
<tr>
<th>Base Mounting Style</th>
<th>Recommended minimum mounting hole</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Ø 6.9 (.272)</td>
</tr>
<tr>
<td>Thru hole</td>
<td>Ø 7.6 (.300)</td>
</tr>
</tbody>
</table>

**Operation**

See page 34 for operating instructions

**Accessories**

Striker Bolt or Cast Striker

See page 35

**Material & Finish**

Top housing: Nylon
Gearbox cover: PC/ABS
Bottom housing, Pivot pins, Screws: Steel, zinc plated
Cam, Trigger: Steel, sealed
Gears: Acetal
Pin, Springs: Stainless steel

**Electrical Specifications**

Recommended Operating Voltage:
- 12 V Models: 8 to 14 VDC
- 24 V Models: 21 to 26 VDC

Typical Operating Current:
- 12 V Models: Less than 200mA
- 24 V Models: Less than 100mA

Latch status switch: 1A Maximum

**Latch Connector**

Pin Assignment

PIN 1: Power
PIN 2: Ground (-)
PIN 3: None
PIN 4: Latch status signal

**Electronic Actuators**

See page 42

**Mechanical Actuators**

See page 36

**Cables**

See page 272

**Wiring/Junctions**

See www.southco.com

Dimensions in millimeters (inch) unless otherwise stated
R4-EM 5 & 7 Series Electronic Rotary Latch
Sealed motor · Stainless steel housing option
Electronic access with internal motor control

- Motor actuator sealed against water and dust ingress to IP56
- Corrosion resistant plated-steel and stainless steel options
- Push-to-close, electronic release
- Versatile rotary mechanism
- Concealed latching
- Microprocessor control
- Auto or delayed relock functionality
- Minimal power draw
- Optional internal micro-switch for latch status
- Simple mechanical over-ride

Dimensions in millimeters (inch) unless otherwise stated

Part Number Selection
- **T** Trigger Style
  - R5 Auto re-lock, rear trigger, with kick-out spring
  - R7 Delayed re-lock, rear trigger, with light spring

- **B** Base Mounting Style
  - 1 1/4-20 thread
  - 2 M6 thread
  - 3 Ø 7.0 (.27) thru hole

- **A** Alternate Configurations
  - None
  - 2 Strong (kick out) cam spring (delayed relock)
  - 3 High strength cam
  - 4 High strength cam with strong (kick out)

- **C** Connector Options
  - 1 Non-sealed connector
  - 2 No connector (stripped and tinned)
  - 3 Sealed connector

- **P** Packaging Options
  - None
  - Individual packaged
  - 1 Bulk packaged

- **M** Material Options
  - 1 None
  - 2 Steel, zinc-nickel plated
  - 3 Stainless steel, passivated

- **S** Switch Options
  - 3 No switch
  - 6 Internal latch status switch

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/R4-EM
**Installation**

Panel Preparation

<table>
<thead>
<tr>
<th>Base Mounting Style</th>
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<td>Ø 6.9 (.272)</td>
</tr>
<tr>
<td>Thru hole</td>
<td>Ø 7.6 (.300)</td>
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</tbody>
</table>

**Operation**

See page 34 for operating instructions

**Accessories**

Striker Bolt or Cast Striker
See page 35

Cable Mounting Kit
See page 35

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**Material & Finish**

Mechanism
Housing, Cam, Trigger, Pins: Zinc nickel plated steel or stainless steel
Springs: 300 Series stainless steel
Electronic Actuator
Housing: PC/ABS
Bellows, Wire seal: Silicone
Perimeter Seal: Buna
Cams: Acetal
Grommet: TPE

**Electrical Specifications**

Recommended Operating Voltage: 12 to 24 Volt DC
Typical Operating Current (average at no load): Less than 600mA at 12 VDC
Input Signal Current Draw: 25mA
Maximum at 24 VDC
Micro-switch Rating: 3A Maximum at 12VDC

**Wire Color Code / Connector Pin Assignment:**

PIN 1: Brown: Ground (-)
PIN 2: Red: Power 12 to 24 Volts DC
PIN 3: Orange: Control Signal 12 to 24 Volts DC
PIN 4: Black: Microswitch Common
PIN 5: Blue: Microswitch N.O.
PIN 6: Grey: Microswitch N.C.

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**Electronic Actuators**

See page 42

**Mechanical Actuators**

See page 36

**Cables**

See page 272

**Wiring/Junctions**

See www.southco.com

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Dimensions in millimeters (inch) unless otherwise stated
R4-EM 4 & 6 Series Electronic Rotary Latch
Compact size · Lightweight
Electronic access with internal motor control

- Light weight construction
- Auto re-lock and delayed re-lock version
- Push-to-close, electronic release
- Versatile rotary mechanism
- Concealed latching
- Microprocessor control
- Minimal power draw
- Simple mechanical over-ride
- Optional internal microswitch for latch open/close output signal

Latch Wiring Connections
With Connector
Molex Microfit 3.0 series
PIN 6
PIN 5
PIN 4
PIN 1

Without connector

Part Number Selection

R4-EM - TBA - 1SC - P

T Trigger Styles
4 Auto re-lock with kick-out spring
6 Delayed re-lock with light spring

B Base Mounting Style
3 Ø 5.5 (.22) thru hole
4 M5 thread
5 10-24 thread

A Alternate Configurations
None Standard configuration
2 Strong (kick out) cam spring (delayed relock)

P Packaging Options
None Individually packaged
1 Bulk packaged

C Connector Options
1 With connector
2 Without connector

S Switch Options
3 No switch
6 Internal latch status switch

Dimensions in millimeters (inch) unless otherwise stated

www.southco.com/R4-EM

Other options available. For complete details on variety, part numbers, installation and specification, go to
1-800-453-1692
www.aboveboardelectronics.com
**Installation**

**Panel Preparation**

<table>
<thead>
<tr>
<th>Base Mounting Style</th>
<th>Recommended minimum mounting hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-24 thread</td>
<td>Ø 5.6 (.220)</td>
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<tr>
<td>M5 thread</td>
<td>Ø 5.9 (.232)</td>
</tr>
<tr>
<td>Thru hole</td>
<td>Ø 6.1 (.240)</td>
</tr>
</tbody>
</table>

**Operation**

See page 34 for operating instructions.

**Accessories**

- **Striker Bolt**
  - See page 35

- **Cable Mounting Kit**
  - See page 35

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**Mechanical Actuators**

See page 36

**Electronic Actuators**

See page 42

**Cables**

See page 272

**Wiring/Junctions**

See www.southco.com

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**Material & Finish**

- Housings: PC/ABS
- Cam: Glass-filled nylon
- Trigger: PBT
- Springs: Stainless Steel
- Pins: Steel, zinc plated

**Electrical Specifications**

Recommended Operating Voltage: 12 to 24 VDC

Typical Operating Current (average at no load): Less than 600mA at 12VDC

Input Signal Current Draw: 25mA

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**Wire Color Code / Connector Pin Assignment:**

- PIN 1: Brown: Ground (-)
- PIN 2: Red: Power 8 to 26 Volts DC
- PIN 3: Orange: Control Signal 8 to 26 Volts DC
- PIN 4: Black: Microswitch Common
- PIN 5: Blue: Microswitch N.O.
- PIN 6: Grey: Microswitch N.C.

---

**Dimensions**

- Dimensions in millimeters (inch) unless otherwise stated.

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

www.southco.com/R4-EM

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**Request Info**

1-800-453-1692

www.aboveboardelectronics.com
R4-EM 1 & 2 Series Electronic Rotary Latch
All-metal construction
Electronic access with internal motor control

- High strength, steel construction
- Operates against high mechanical loads
- Push-to-close, electronic release
- Versatile rotary mechanism
- Concealed latching
- Microprocessor control
- Minimal power draw
- Simple mechanical override
- Optional internal microswitch for latch open/close output signal

Latch Wiring Connections
With connector
Molex Microfit 3.0 series

Without connector

Part Number Selection

R4 - EM - T B A - 1 S C - P

- **T** Trigger Styles
  - R1: Auto relock, rear trigger, with kick-out spring
  - R2: Delayed relock, rear trigger, with light spring

- **B** Base Mounting Style
  - 1: 1/4 - 20 thread
  - 2: M6 thread
  - 3: Ø 7.0 (.27) thru hole

- **A** Alternate Configurations
  - **None** Standard configuration
  - 2: Strong (kick out) cam spring (delayed relock)
  - 3: High strength cam
  - 4: High strength cam with strong (kick out) cam spring (delayed relock)

- **C** Connector Options
  - 1: With connector
  - 2: Without connector

- **S** Switch Options
  - 3: No switch
  - 6: Internal latch status switch

Dimensions in millimeters (inch) unless otherwise stated
Installation
Panel Preparation

<table>
<thead>
<tr>
<th>Base Mounting Style</th>
<th>Recommended minimum mounting hole</th>
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</tr>
<tr>
<td>M6 thread</td>
<td>Ø 6.9 (.272)</td>
</tr>
<tr>
<td>Thru hole</td>
<td>Ø 7.6 (.300)</td>
</tr>
</tbody>
</table>

Operation
See page 34 for operating instructions

Accessories
Striker Bolt or Cast Striker
See page 35

Cable Mounting Kit
See page 35

Electronic Actuators
See page 42

Mechanical Actuators
See page 36

Cables
See page 272

Wiring/Junctions
See www.southco.com

Material & Finish
Mechanism
Housing: Steel, zinc plated
Cam, trigger: Steel, zinc plated
Springs: 300 Series stainless steel
Pins: Steel, zinc plated

Electronic Actuator:
Housing: PC/ABS
Cam / follower: Acetal

Electrical Specifications
Recommended Operating Voltage:
12 to 24 Volt DC
Typical Operating Current: Less than 500mA at 12 VDC
Peak/Stall Operating Current: 1 A
Standby Current: 185uA
Input Signal Current Draw: 25mA
**Optional microswitch closes upon latch closure
Microswitch Rating: 3A at 12VDC Maximum

Wire Color Code / Connector Pin Assignment:
PIN 1: Brown: Ground (-)
PIN 2: Red: Power 8 to 26 Volts DC
PIN 3: Orange: Control Signal 8 to 26 Volts DC
PIN 4: Black: Microswitch Common
PIN 5: Blue: Microswitch N.O.
PIN 6: Grey: Microswitch N.C.

Contact

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/R4-EM
**R4-EM Electronic Rotary Latch**

**Operating instructions**

**Operation - Auto relock**
1. The signal unlocks the R4-EM latch and releases the spring loaded cam which rotates out to push a lightweight door open. The mechanism will cycle through unatched then relatched state automatically, regardless of input signal on time.

2. Push door closed to engage striker after unlock time has expired. Striker will rotate cam to closed position.

**Operation - Delayed relock**
1. The signal unlocks the R4-EM latch leaving a biased closed door in the closed position. The unlock time is controlled by the access control device.

2. Manually pull door/striker free from R4-EM latch.

3. Manually push door closed. Striker will rotate cam to closed position, however latch will remain unlocked and can be re-opened as long as signal is present.

4. After accessing the door, the signal can be removed to re-lock the R4-EM. This can be done with the door in the open or closed position.

Dimensions in millimeters (inch) unless otherwise stated.
**R4-EM Electronic Rotary Latch**

**Strikers - Cable mounting kits**

**Striker Bolt - Large**
Part number R4-90-121-10

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 9.5</td>
<td>.37</td>
<td>.46</td>
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<tr>
<td>M8 x 1.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.7</td>
<td>.50</td>
<td>.61</td>
</tr>
</tbody>
</table>

**Striker Bolt - Small**
Part number R4-90-511-10

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 7.5</td>
<td>.295</td>
<td>.38</td>
</tr>
<tr>
<td>M6 thread</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>.39</td>
<td>.45</td>
</tr>
</tbody>
</table>

**Cast Striker with Door Sensor**
Part number R4-90-804-10*

**Cast Striker without Door Sensor**
Part number R4-90-800-10*

**Material and Finish**
Striker bolts: Steel, zinc plated
Cast strikers: Zinc alloy
Cable mounting kits: Glass-filled nylon, black

*Note: Latch and striker installation details can be found on the latch trade drawing at www.southco.com.

**Cable Mounting Kit**
Part number R4-EM-52 – Rivets included
Part number R4-EM-72 – Screws included

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>1.5</td>
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</tr>
<tr>
<td>28</td>
<td>1.1</td>
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<td>3.5</td>
<td>.14</td>
<td></td>
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<tr>
<td>1</td>
<td>.04</td>
<td></td>
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</tbody>
</table>

**Table: Striker Bolt, Cast Striker, Cable Mounting Kit**

<table>
<thead>
<tr>
<th>Striker Bolt</th>
<th>Cast Striker</th>
<th>Cable Mounting Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>R4-90-121-10</td>
<td>R4-90-511-10</td>
<td>R4-EM-52</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>R4-90-804-10</td>
<td>R4-90-800-10</td>
<td>R4-EM-72</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>R4-EM-9</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
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<tr>
<td>R4-EM-8</td>
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</tr>
<tr>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>R4-EM-5 &amp; 7</td>
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<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>R4-EM-4 &amp; 6</td>
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<td>✔</td>
</tr>
<tr>
<td>R4-EM-1 &amp; 2</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Request Info**

1-800-453-1692
www.aboveboardelectronics.com

www.southco.com/R4-EM
Southco now offers a standard solution for remote mechanical actuation of the R4-EM Electronic Rotary Latch. The cable based solution provides a simple means of mechanically releasing the electronic lock in the event of electrical power loss providing fully redundant access.

**Installation**

1. Mount cable mounting bracket to R4-EM series latch with 2 rivets
2. Snap retainer over cable to hold in place against bracket
3. Slide ball end of cable out and slip wire into notch of manual override lever
4. Pull wire tight and insert end into hole in actuator cable retainer and secure with hex head screw
5. Slide threaded fitting into slot in mounting bracket and secure in place with 2 mounting nuts

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

www.southco.com/R4-EM

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Request Info

1-800-453-1692

www.aboveboardelectronics.com
How to Order

Step 1 Select mechanical override lock and corresponding AC actuator assembly and AC cable bracket

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5 Actuator</td>
<td>A5-99-136</td>
</tr>
<tr>
<td><strong>AND</strong></td>
<td></td>
</tr>
<tr>
<td>AC Cable Bracket (Clockwise Rotation)</td>
<td>AC-0-49617-11-R</td>
</tr>
<tr>
<td><strong>OR</strong></td>
<td></td>
</tr>
<tr>
<td>AC Cable Bracket (Counter Clockwise Rotation)</td>
<td>AC-0-49617-11-L</td>
</tr>
</tbody>
</table>

E5 Latch
Push-to-Close assembly
See page 128
See drawing J-E5-S3-A

PT Latch
Tubular Key cam Lock
See page 170
See drawing J-PT-1

Step 2 Determine mechanical cable length required

<table>
<thead>
<tr>
<th>Mechanical Cable</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>See drawing J-AC-C</td>
<td>AC-C0H0-4-LLLL-TTT</td>
</tr>
<tr>
<td><strong>LLL</strong> - Length from behind ball end to end of cable <strong>TTT</strong> - Raw cable extension portion of LLLL length</td>
<td></td>
</tr>
<tr>
<td><strong>LLL</strong></td>
<td></td>
</tr>
</tbody>
</table>

Step 3 Order cable mounting kit (one per R4-EM latch). See page 35 to select the kit to match your application.

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<tbody>
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<tr>
<td>R4-EM-72</td>
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<tr>
<td>R4-EM-87</td>
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<tr>
<td>R4-EM-952</td>
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</table>

Dimensions in millimeters (inch) unless otherwise stated

www.southco.com/AC