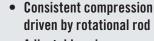


Remote compression latch



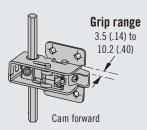
- Adjustable grip
- Meets NEMA 4 / IP66 and EMI standards
- Can be driven by hand, tool or key-locking actuators

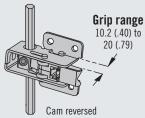
Material and Finish

Zinc alloy and steel, zinc plated

Performance Details

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





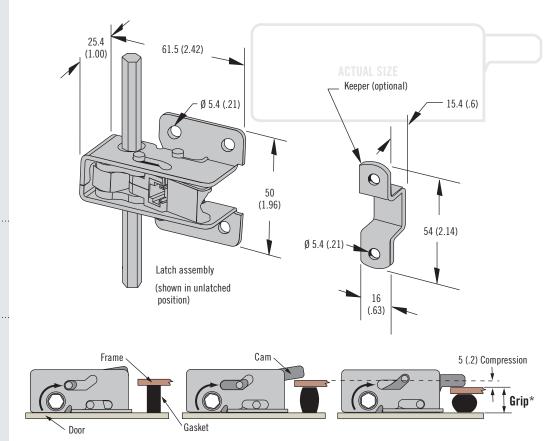
Notes

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 210) Actuator (see pages 211-214) Rods (see page 215)

Order each component separately

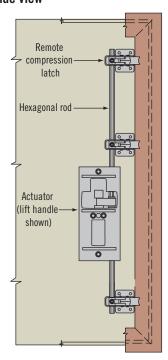


* Measure your **Grip** from the latch mounting surface to the inside frame surface, with gasket compressed

4 Mounting 40 (1.57) Ref holes for 25±0.1 (.984±.004) remote latch M5 or No. 10 hardware 10 ± 0.5 (.39±.02) Door Frame edge location 40 ± 0.1 $(1.575 \pm .004)$ 35 ± 0.1 $(1.378 \pm .004) -$ 2 Mounting holes for optional keepers M5 or No. 10 hardware Centerline of rod Frame 18±0.1 (.71±.004)

Part Number	
Remote compression latch	M3-50
Keeper (optional) use for grip ranges 15 - 30 (.59 - 1.18)	M3-51

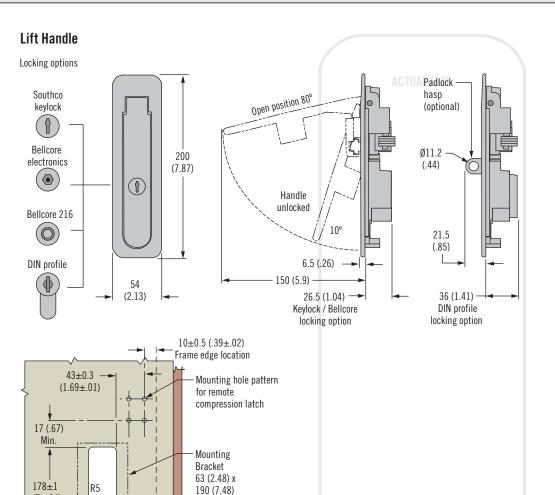
Inside view





Actuators · Lift handle





- 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 210) Actuator (see page 211-214) Rods (see page 215)

Order each component separately

P Padlock option < D Door thickness range Non padlock **10** 1.5 - 3 (.06 - .12) Padlockable **11** 3 - 4.5 (.12 - .18) **25** 24 - 25.5 (.94 - 1.0) M3 - 40 - L P - D ► L Lock style 10 Key-locking keyed alike CH751 (two keys supplied)

Frame

- 11 DIN profile supplied keyed alike 347876 (three keys supplied)
- 12 DIN profile, lock not supplied
- 13 Push button
- **16** Bellcore 216
- 17 Bellcore electronics

Dimensions in millimeters (inch) unless otherwise stated

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 $(7 \pm .04)$

 34 ± 0.3 $(1.34 \pm .01)$ (.20)Max.



Actuators · Push-button handle

Suitable for left and right side latching

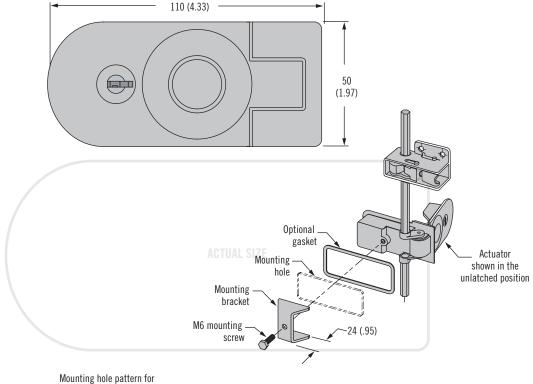
Material and Finish

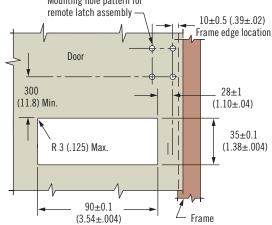
Zinc alloy, black powder coated and steel, zinc plated

Sealing Notes

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

Push-Button Handle





Actuator	Door Thickness Range	Part Number
Push-button handle	0 - 5 (020)	M3-90
	5 - 10 (.2039)	M3-92
Push-button handle with key-lock	0 - 5 (020)	M3-91
	5 - 10 (.2039)	M3-93

Sealing Gasket Part Number C5-82

Part Number

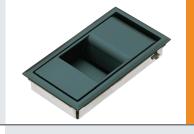
Actuator and sealing gasket only see table

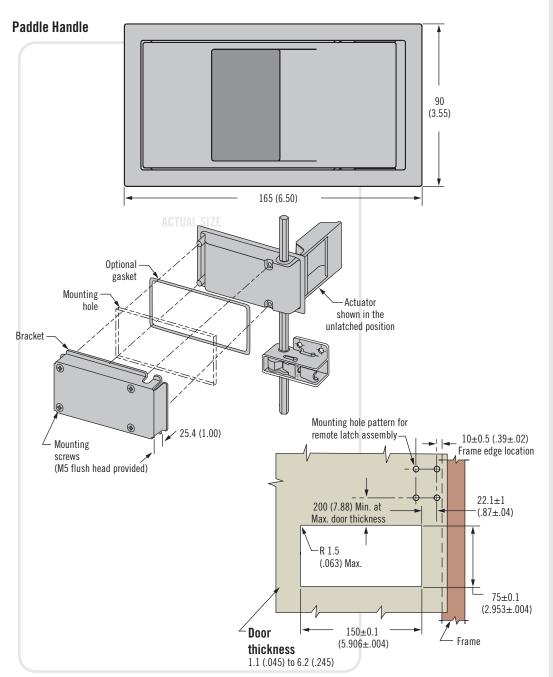
The complete system consists of: Remote compression latch and/or optional keeper (see page 210) Actuator (see pages 211-214) Rods (see page 215)

Order each component separately



Actuators · Paddle handle





Actuator	Part Number
Paddle (includes bracket and screws)	M3-10
Paddle with key-lock (includes bracket and screws)	M3-17

Gasket Type	Part Number
Environmental	M3-12
EMC	M3-13

· 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







Part Number

Actuator and gaskets only see table The complete system consists of: Remote compression latch and/or optional keeper (see page 210) Actuator (see pages 211-214) Rods (see page 215)

Order each component separately





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 Adaptor: Zinc alloy, chemical protective film Concealed: Zinc alloy, chemical protective film

Notes

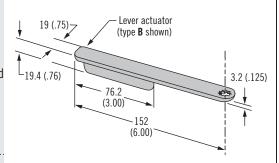
Part Number

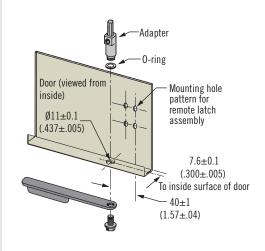
Actuator only see table

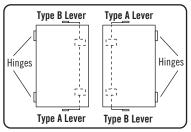
The complete system consists of: Remote compression latch Remote compression latch and/or

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

Door Edge Lever







Viewed from outside

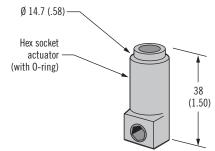
Type A **Part Number**

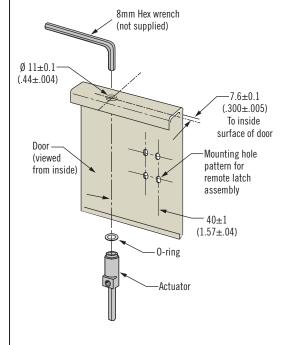
M3-31

M3-32

optional keeper (see page 210)		
Actuator (see pages 211-214)	Actuator	
Rods (see page 215)	Lever	
Order each component separately	(includes adapter and 0-ring)	

Concealed





Actuator	Part Number
Hex socket with O-ring seal	M3-30



M3 Compression System Rods and Calculator



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

Hexagonal Rod

Hex Rod	Length	Part Number
Hex rods	125 cm	M3-125
(length measured	155 cm	M3-155
in centimeters)	185 cm	M3-185

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:
$$\frac{5200 \text{ mm x } 0.3 \text{ N/mm}}{470} = 3.28 = 3 \text{ latches}$$

Remote compression latches should be evenly spaced along edge of door

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Part Number

Rod only see table

The complete system consists of: Remote compression latch and/or optional keeper (see page 210) Actuator (see pages 211-214) Rods (see page 215)

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



Electronic Lock

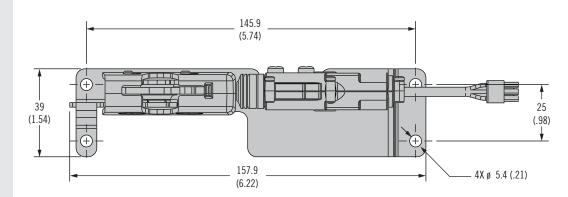
Electronically controlled locking

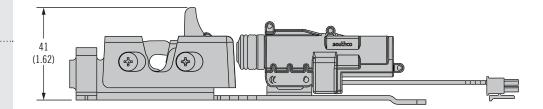
- Sealed for outdoor use
- Retrofit existing M3 systems without disassembly

Wire Color Code / Connector Pin Assignment:

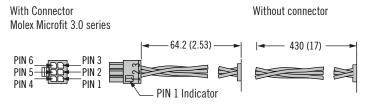
- PIN 1: Extend (+), Orange Wire
- PIN 2: Retract (+), Red Wire
- PIN 3: Ground (-), Black Wire
- PIN 4: Not used
- PIN 5: Not used
- PIN 6: Not used

Electronic Rotary Latch Mechanism





Latch Wiring Connections



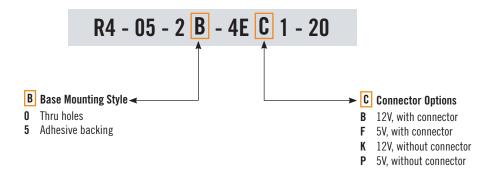
Part Number

Latch Mechanism: See table

Striker: M3-58

Order latch and striker separately

Part Number Selection



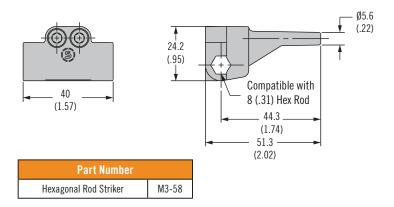


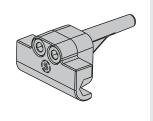


M3 Compression System Electronic Lock



Hexagonal Rod Striker





Installation

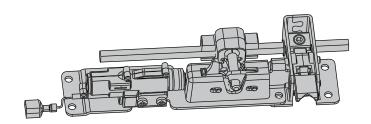
Remote Compression
Latch part number M3-50.
See page 210.
Ordered Separately.

Striker part number M3-58, ordered separately.

Latch mechanism. See table for part

number. Ordered Separately.





Material and Finish

Latch Mechanism Housing: Stainless Steel Cam, trigger: Stainless Steel Springs: Steel, zinc plated Pins: Stainless Steel

Electronic Actuator

Enclosure, Output Cam: Nylon,

Acetal

House Assembly Screws: Stainless

Steel

Striker: Zinc, Chromate sealer

Electronic Specifications

Supply Voltage: 5 or 12VDC

Operating Current: Less than 300 mA

Operating Temperature:

-20°C - 60°C

Operating Humidity: 85% max

No condensation

Notes:

Connector version uses Molex brand Microfit 3.0

Visit southco.com to download further installation and operation details.



