SECURITY DOOR CONTROLS ■ WWW.SDCSECURITY.COM
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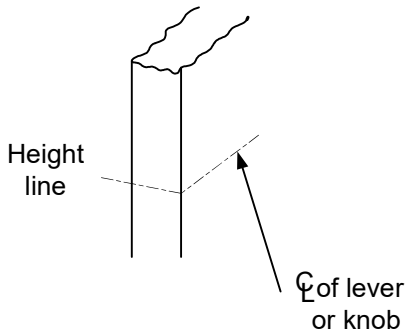
INSTALLATION INSTRUCTIONS

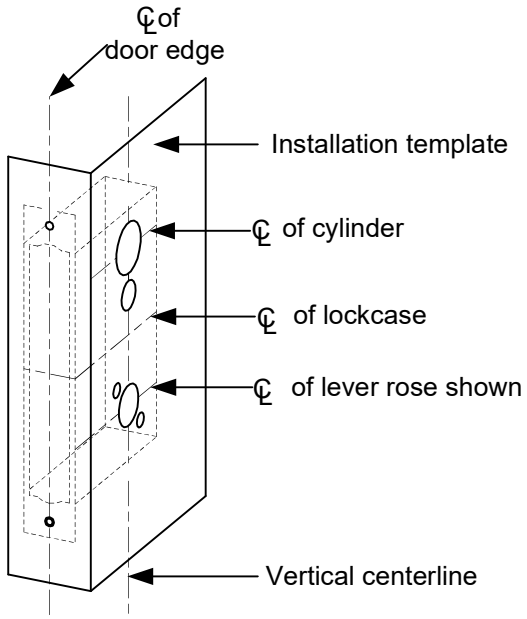
Z7870/72 & Z7880/Z7882 PRO SERIES
SOLENOID CONTROLED
MORTISE DEADBOLT LOCKSET

A. Door Preparation:

1. Measure desired height from finished floor, mark a horizontal line on door and door edge.

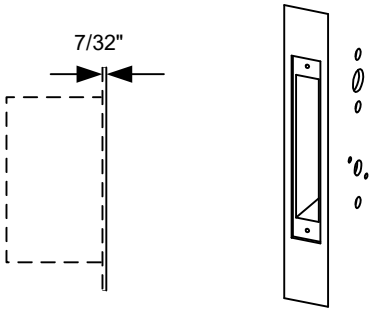
2. Align template on edge of door with applicable horizontal at height line. Check the chart for drilling trim holes on template and mark only holes for lock function being installed.





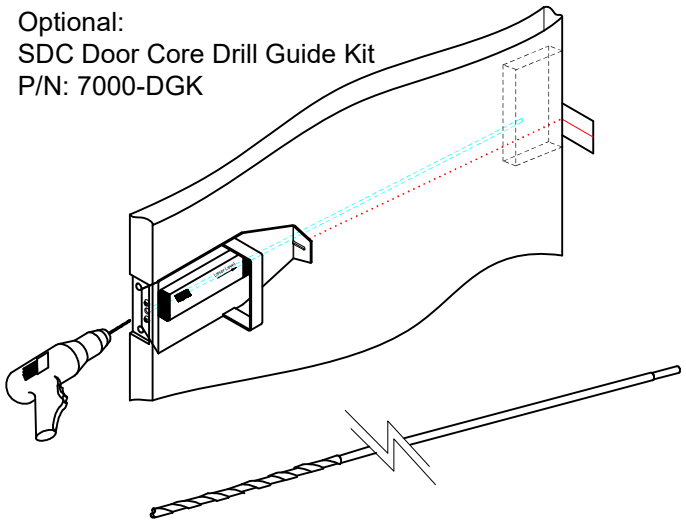
3. Mortise door edge according to measurements on installation template and drill proper holes for trim.

4. Recess for face plate, the dimension is:
L 8-1/32" x W 1-5/16" x D 7/32".



Wire Raceway suggested for wood doors.

Optional:
SDC Door Core Drill Guide Kit
P/N: 7000-DGK

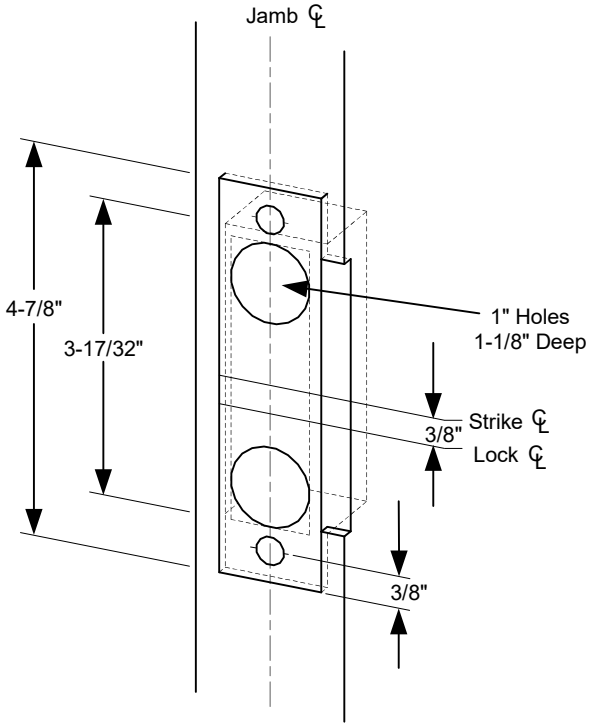


Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

B. Strike Installation:

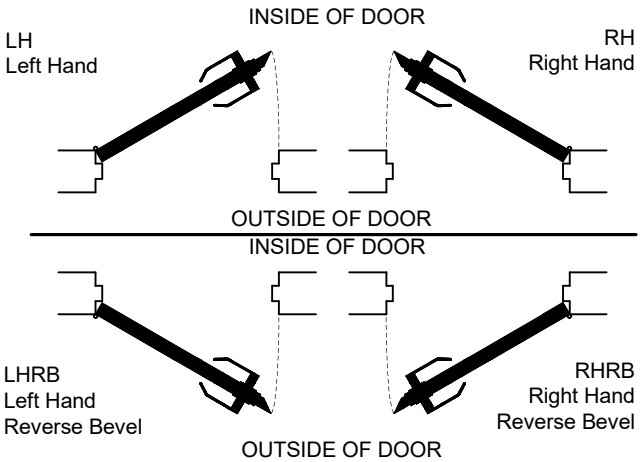
1. Align strike template on jamb. Be sure to keep 3/8" distance between lock centerline and strike centerline. Recess 5/32" for flush fit of strike and dust box.

2. Mortise jamb according to measurement of strike template. Then fit strike and dust box into frame and secure into place with supplied screws.



C. Install Lockcase

1. Make sure the lock hand matches the door hand, use the following diagram to determine the hand of door.



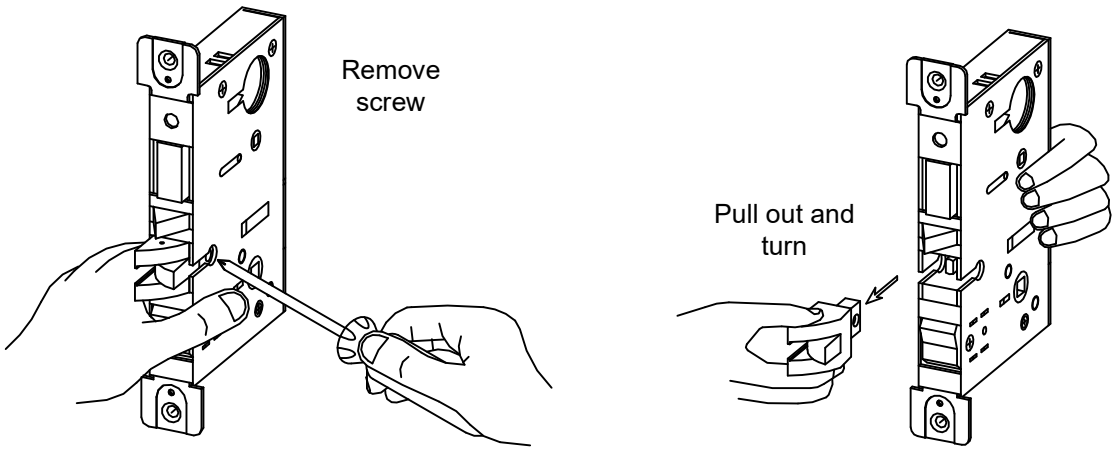
C Install Lockcase (Continued)

Instructions for changing lock hand:

REX option Locksets are factory set per handing and can't be changed in the field.

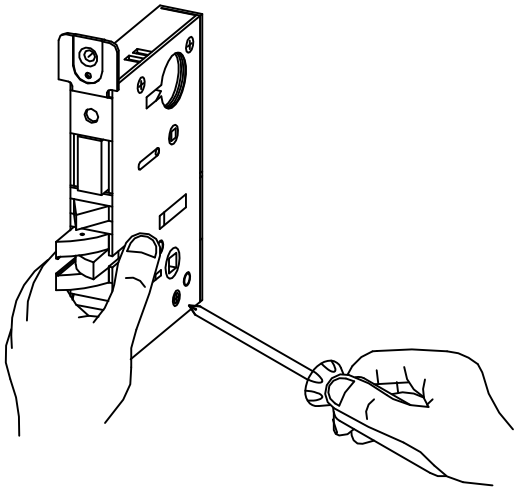
1. Change latchbolt handing

If the hand of the latchbolt doesn't match the door hand, remove the fixing screw and pull the latchbolt out from lock case. Turn the latchbolt 180 ° to change the handling. Position latchbolt back, into case and fasten it.



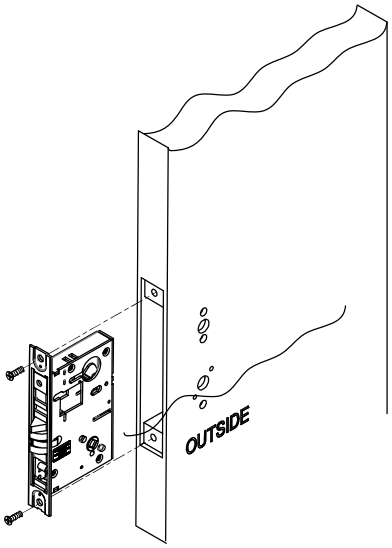
2. Change hand of lock

For RH and RHRB, the catch screw will be on the lock case side. For LH and LHRB, the catch screw will be on the lock cover side.



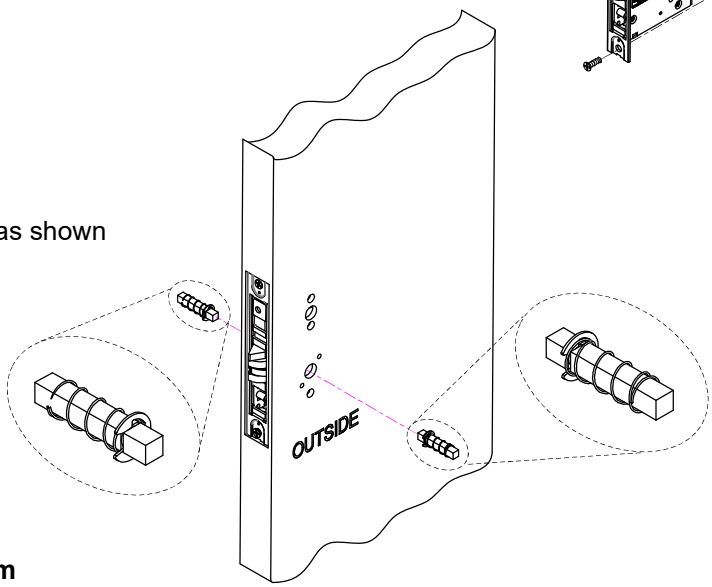
C. Install Lockcase (Continued)

3. Connect wires as shown on the lock cover diagram.
4. Insert lockcase into mortise cut-out and fasten screws to door.



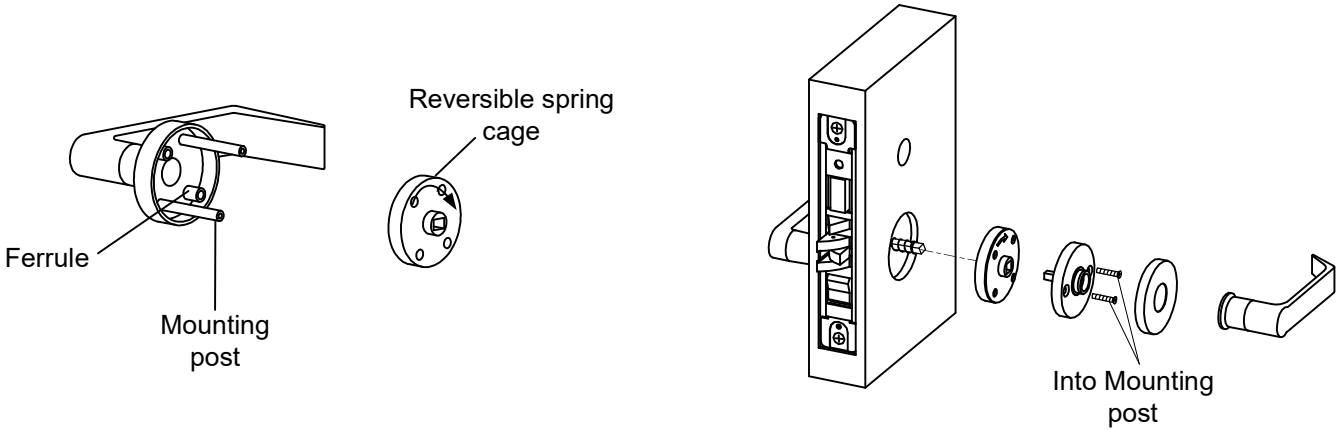
D. Install Spindles

1. Insert spindles as shown



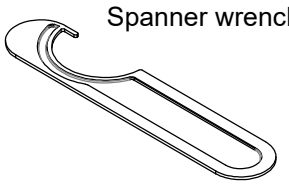
E. Install Lever trim

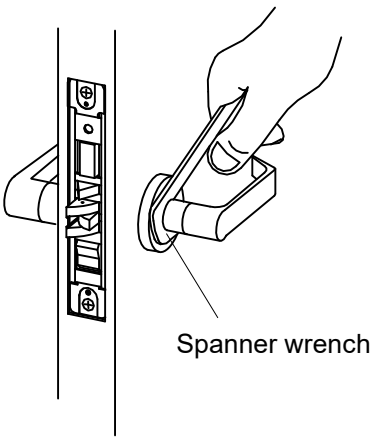
1. Place the reversible spring cage onto the ferrules with arrow pointing in direction of lever rotation.
2. Install outside trim with mounting posts through door and position lever onto the spindle.
3. Install inside spring cage onto the spindle with the arrow pointing in the direction of inside lever rotation.
4. Install inside mounting plate onto spindle. Tighten with provided screw.
5. Cap inside rose over mounting plate.



E. Install Lever trim (continued)

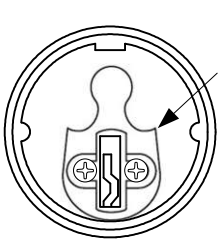
6. Screw inside lever into position and tighten lever collar with supplied spanner wrench.

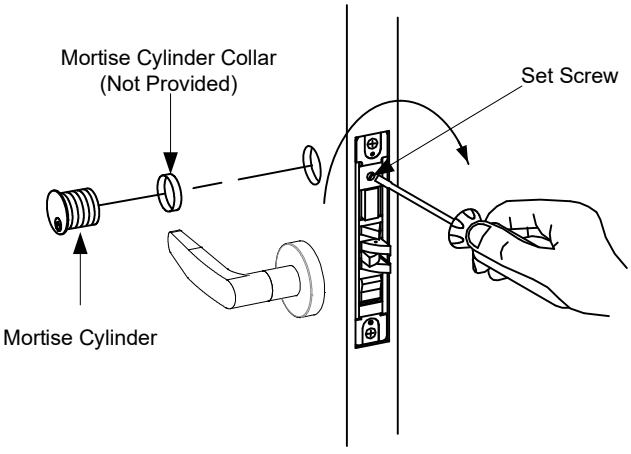


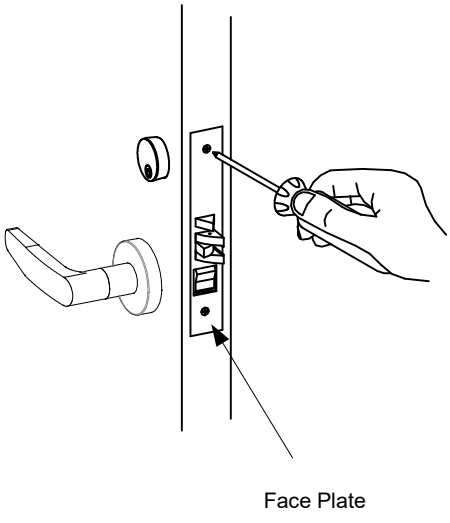


F. Install Cylinder and Armor Face Plate

1. Screw Mortise Cylinder into threaded hole of lock case.
2. Tighten the Set Screw against cylinder(s) by turning clockwise as shown.
3. Install Face Plate onto lock case front and fasten with supplied screws.

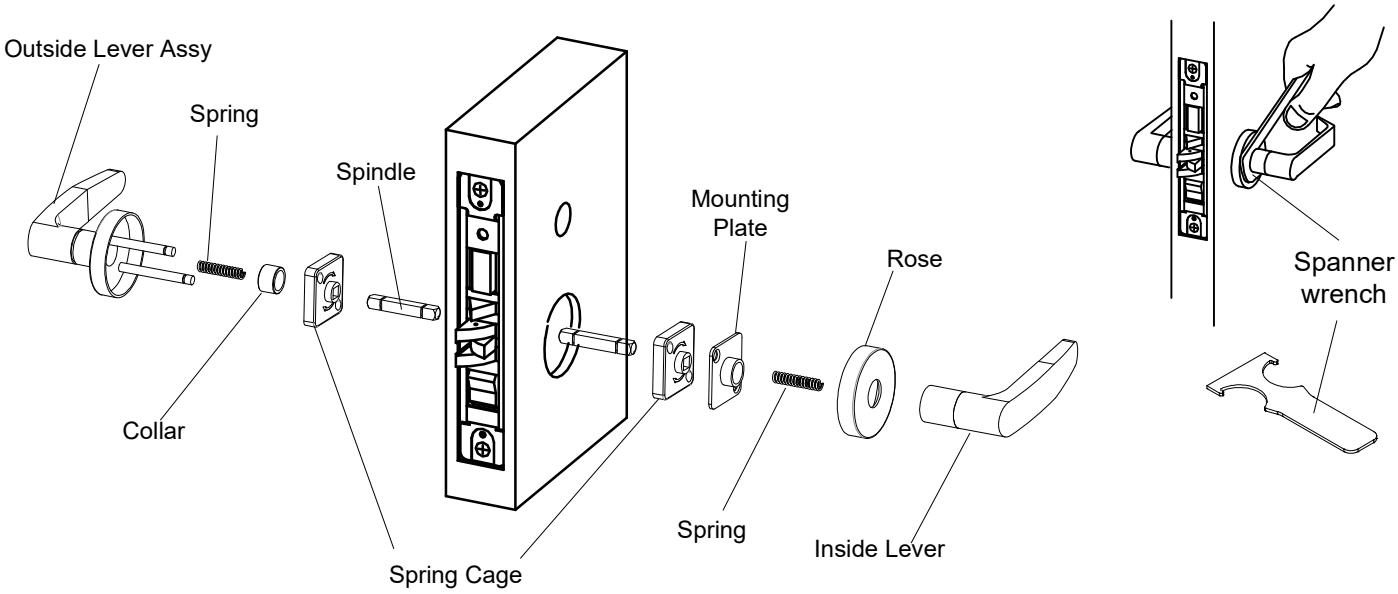






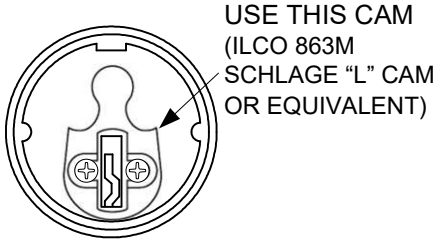
E. Install for 07 lever trim

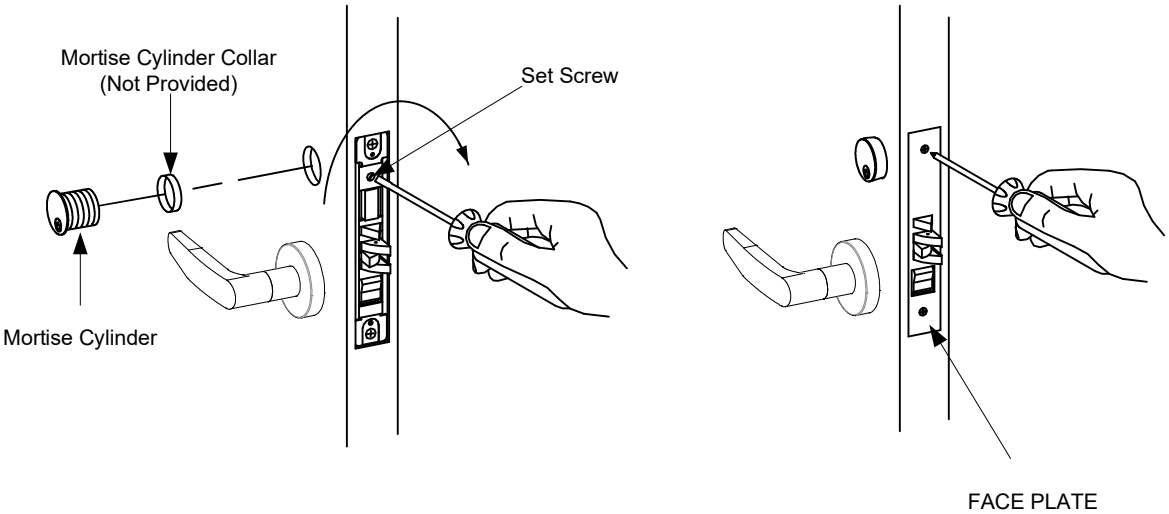
1. Place the spring, collar and then reversible spring cage onto the outside lever assembly with arrows pointing in direction of lever rotation. Insert spindle into hub of lock case.
2. Install outside lever assembly with mounting posts through door and position lever assembly onto the spindle.
3. Install inside spring cage onto the spindle with the arrows pointing in the direction of inside lever rotation.
4. Install inside mounting plate over spindle and onto the mounting posts of outside assembly. Tighten with provided screws.
5. Cap inside rose over mounting plate and insert second spring.
6. Screw inside lever into position and tighten lever collar with the supplied spanner wrench.



F. Install Cylinder and Armor Face Plate

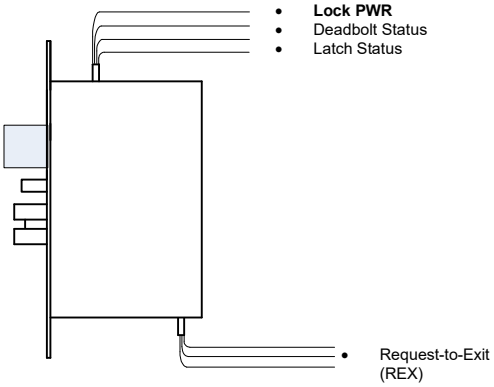
1. Screw Mortise Cylinder into threaded hole of the lock case.
2. Tighten the Set Screw against cylinder(s) by turning clockwise as shown.
3. Install Face Plate onto the lock case and fasten with supplied screw.





INSTALLATION WIRE DIAGRAM
Model 7870/72 & 7880/82 Series

STANDARD WIRING
12 or 24VDC (Locks are voltage specific)
12VDC@.6AMP; 24VDC@.3AMP

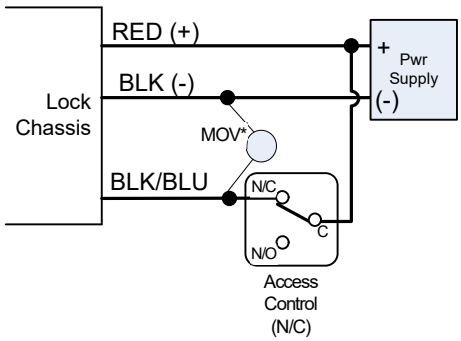


Optional Monitoring — From Lock

LATCH STATUS (L) SPDT 5A@30VDC (switch polarity shown w/ latch extended)	COM	WHT
	NC	ORG
	NO	YEL
DEADBOLT STATUS (B) SPDT 5A@30VDC (switch polarity shown w/ deadbolt retracted)	COM	WHT/BLK
	NC	YEL/BLK
	NO	ORG/BLK
REQUEST-TO-EXIT (R) SPDT 5A@30VDC (switch polarity shown w/ inside lever released)	COM	WHT/RED
	NC	ORG/RED
	NO	YEL/RED

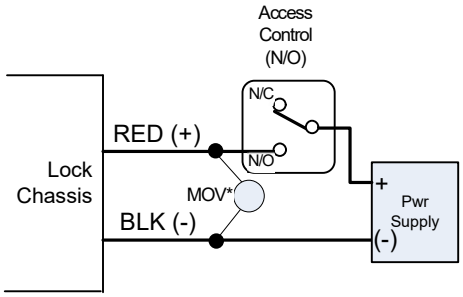
Z7880 (Failsafe) Lock Power (12VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



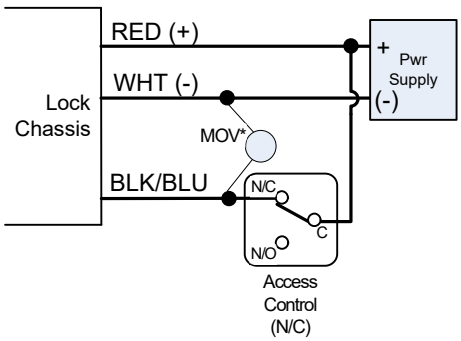
Z7882 (Failsecure) Lock Power (12VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



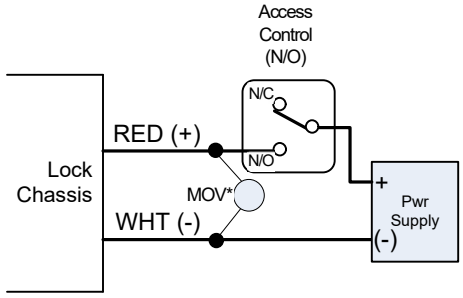
Z7880 (Failsafe) Lock Power (24VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



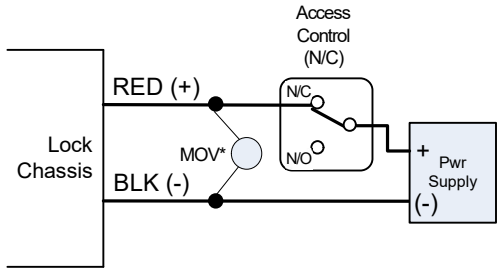
Z7882 (Failsecure) Lock Power (24VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



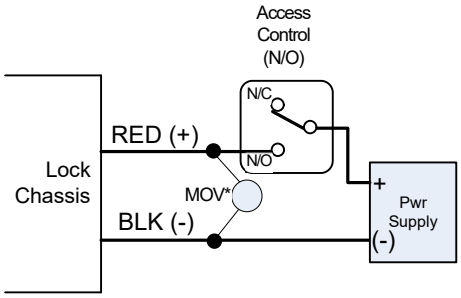
Z7870 (Failsafe) Lock Power (12VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



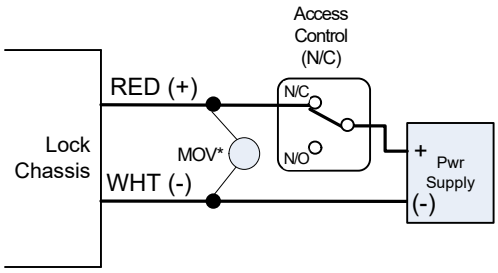
Z7872 (Failsecure) Lock Power (12VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



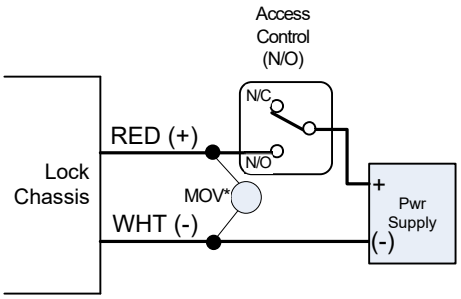
Z7870 (Failsafe) Lock Power (24VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



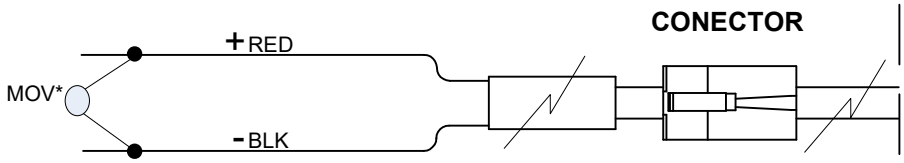
Z7872 (Failsecure) Lock Power (24VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



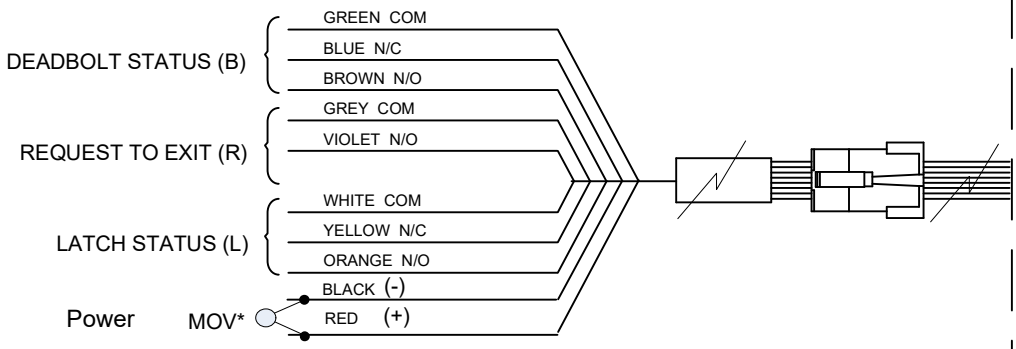
INSTALLATION WIRE DIAGRAM
Models with optional cable connectors

STANDARD WIRING (NO OPTIONS)



*Install MOV across each coil to protect ACS electronics.
Install as close as possible to the lock

WIRING WITH OPTIONS



*Install MOV across each coil to protect ACS electronics.
Install as close as possible to the lock