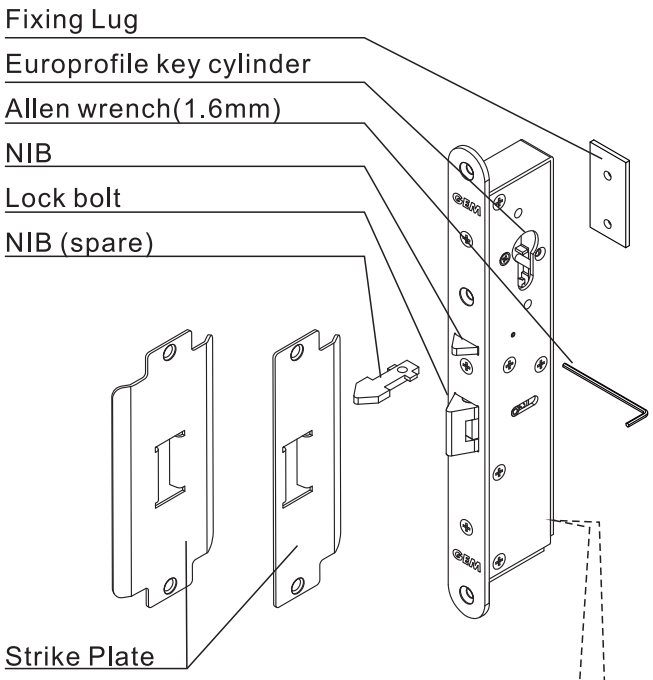
Electromechanical Lock
Installation Instruction

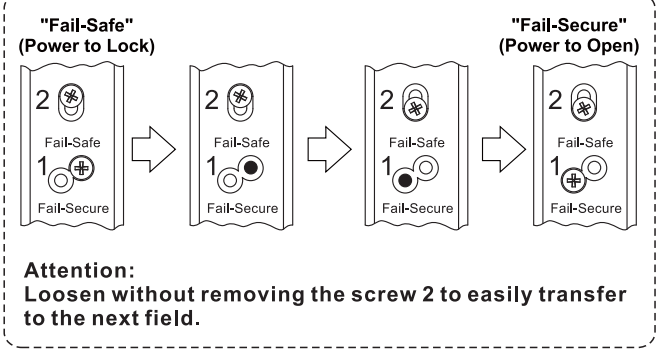
Specifications

Power Input	12/24V DC;12V DC
Voltage Tolerance	±10%
Current Draw	280m A@12 VDC; 140m A@24 VDC
Version Changeable	Fail-safe/secure changeable
Operating Temperature	-10~45°C
Humidity	0~95% non-condensing
Lock bolt sensor switch output	SPDT rated 3A@125VAC
Solenoids testing	Tested to 1,000,000 cycles
Backset	30 mm
Weight	800 g



Version Changeable

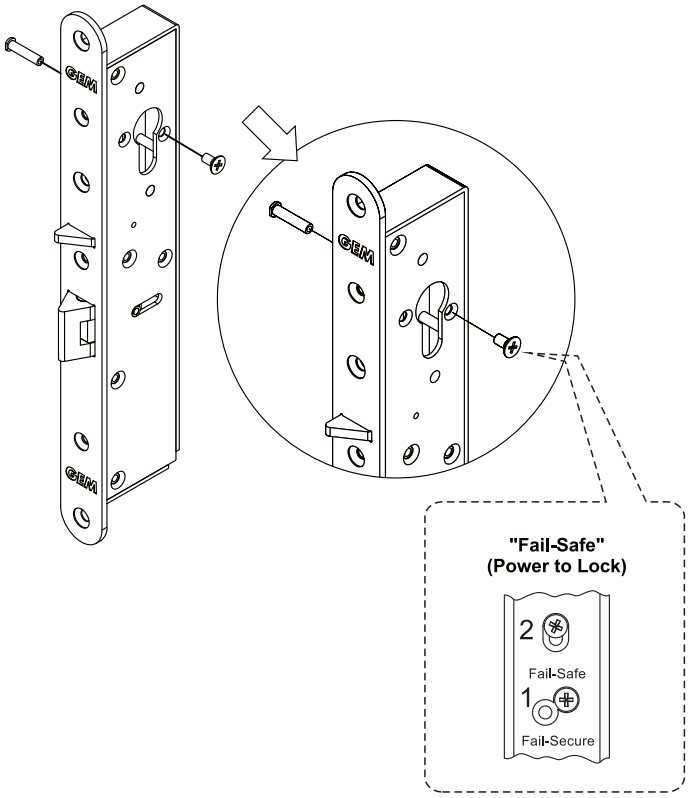
Take out the Screw 1, release the screw 2, move the position and then tighten the screw 2.



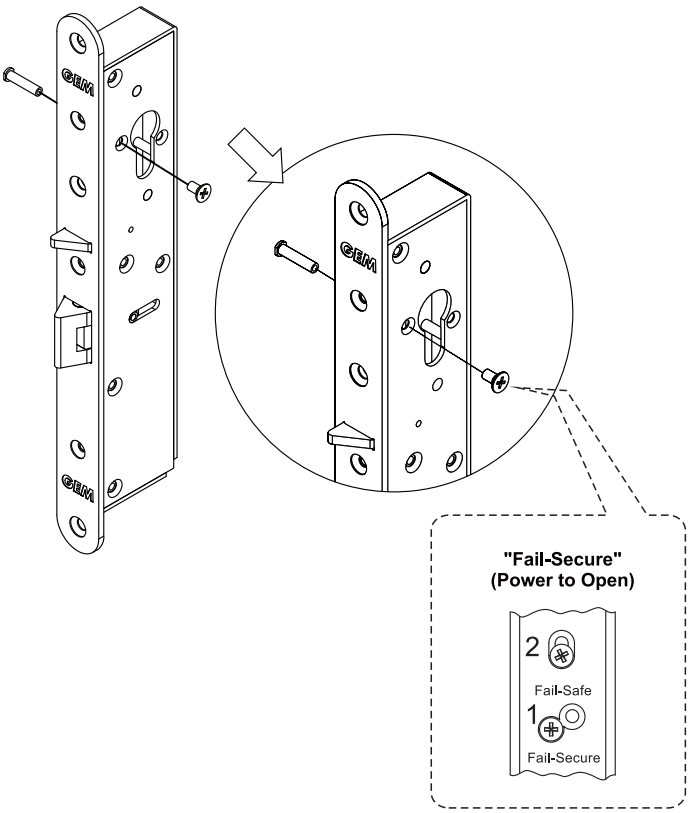
Attention:
Loosen without removing the screw 2 to easily transfer to the next field.

Cylinder Stand-off Position

For fail-safe, operation mode is the position of stand-off as below.



Fail-secure mode as below



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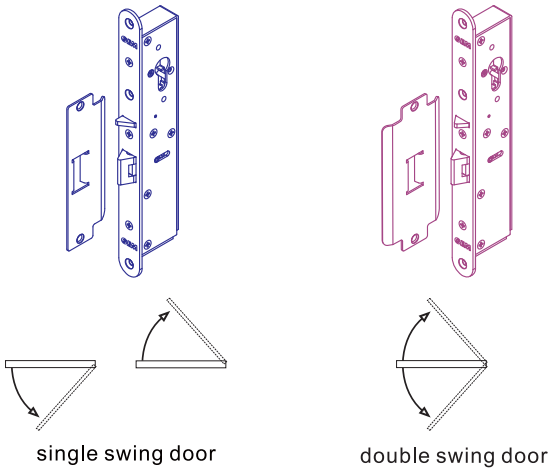
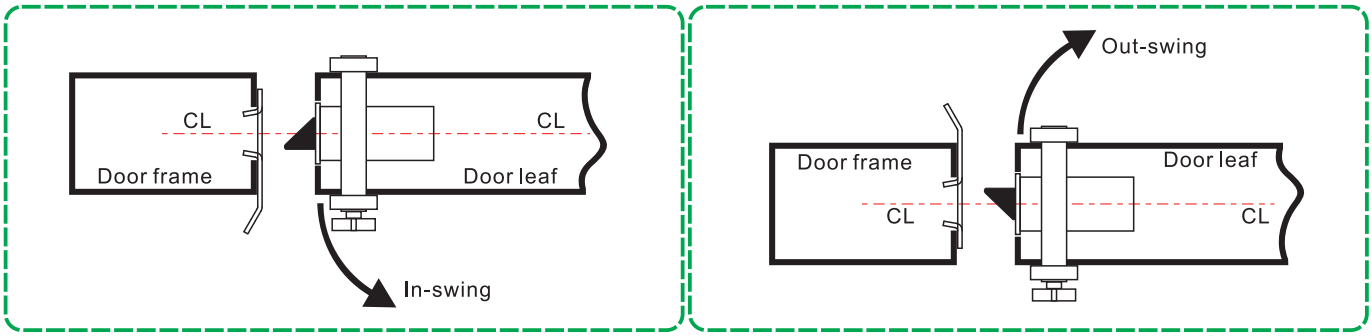
Specifications



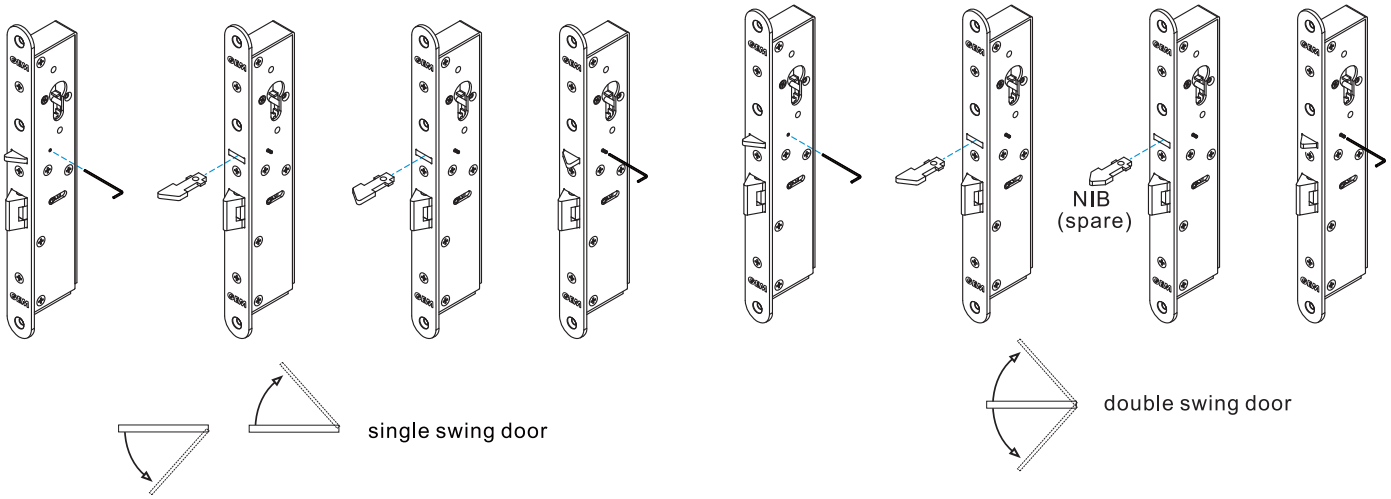
Attention: For **"Single swing door"** installation, Strike Plate and NIB can be adjusted thru the door opening and closing direction. (refer to page 1 for related NIB adjustment)



NIB Changeable

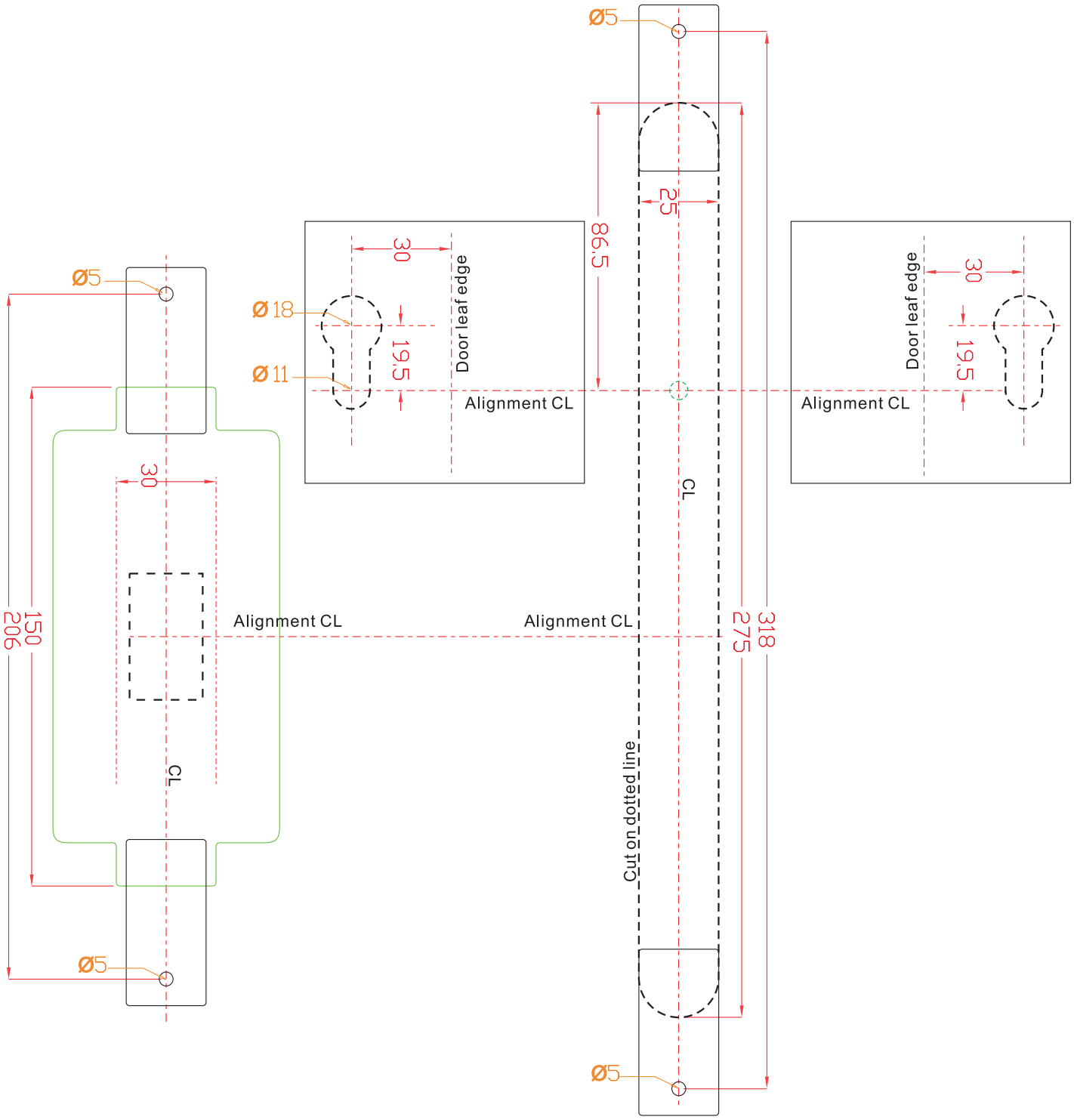
ML-300 is suitable for **"single swing door"** only. Mounting the lock will depend on your door application either right-hand or left-hand doors should be considered.

Single action door or double action door changeable by a NIB. We also provide optional spare NIB for **"Double swing door"** in case necessary.

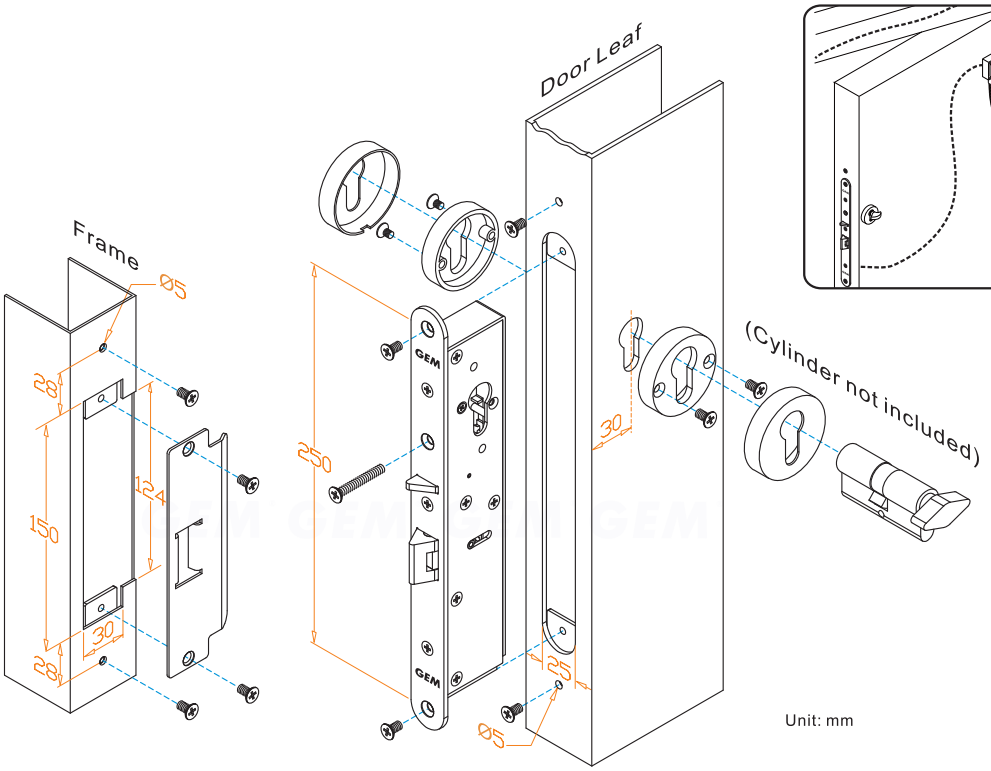


Template

Unit: mm

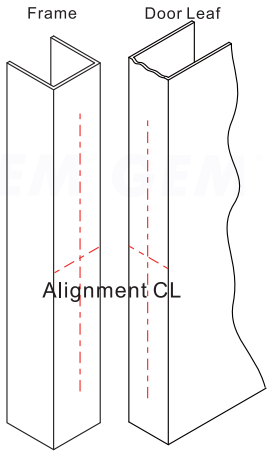
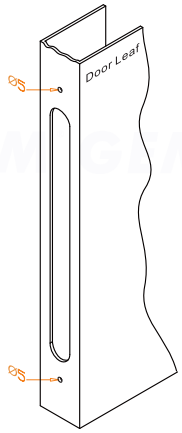
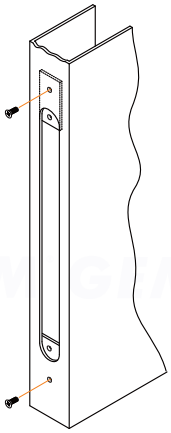
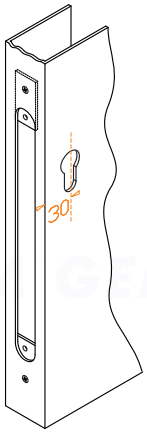
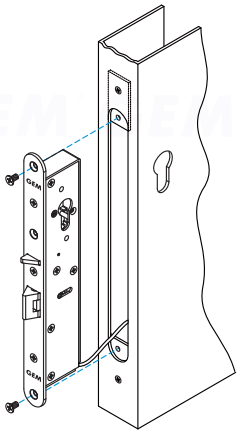
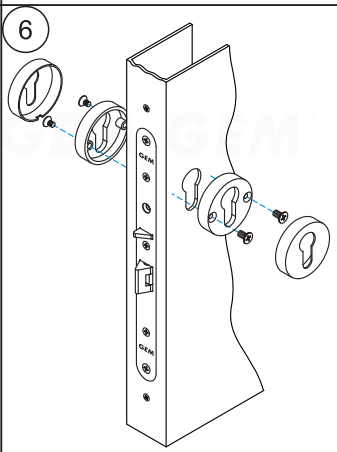
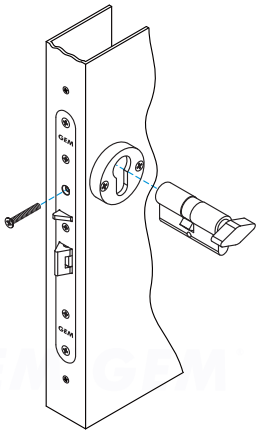
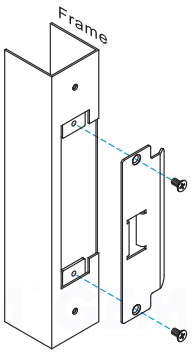


Installation Instructions



Door Loop (Optional)

The Door Loop is for protection of extension wiring from damages with high security concerns.

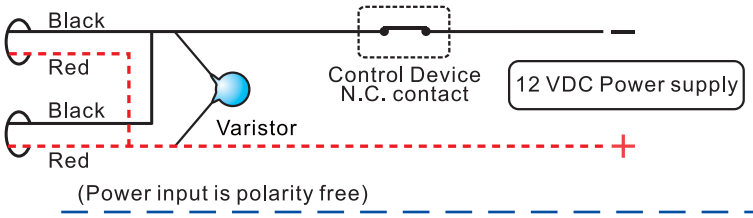
1  Locate the vertical centerline of the Lock and Strike Plate as possible to the leading door edge.	2  Mortise cutout in door leaf for face plate .	3  Position screws for fasten Fixing Lugs.	4  Drill and cut as template indicated.
5  Connect power cable to lock.	6  Insert lock into position, attach to Fixing base and cover.	7  Tighten the cylinder	8  Tighten the Strike Plate

Connecting Diagram

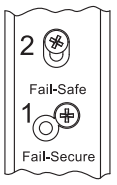
• *Voltage Selection for 12&24 VDC*

Lock bolt sensor switch output

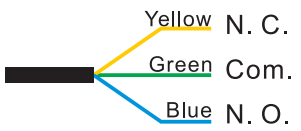
For the **12 VDC** operation, the electric strikes have to connect **in Parallel.**

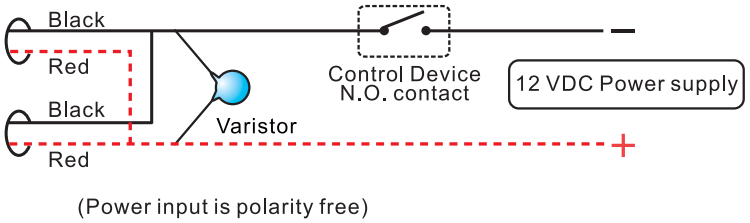


(Power input is polarity free)

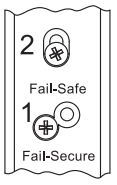


"Fail-Safe"
(Power to Lock)

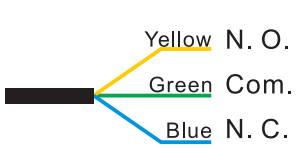




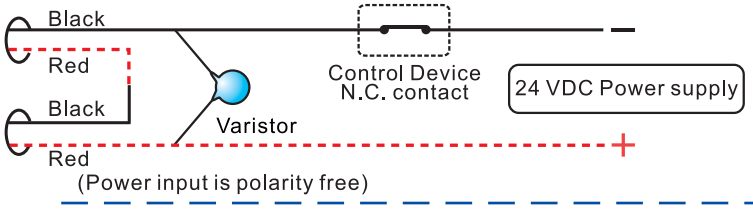
(Power input is polarity free)



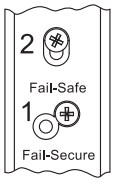
"Fail-Secure"
(Power to Open)



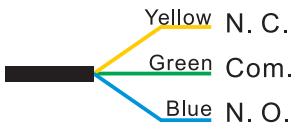
For the **24 VDC** operation, the electric strikes have to connect **in series.**

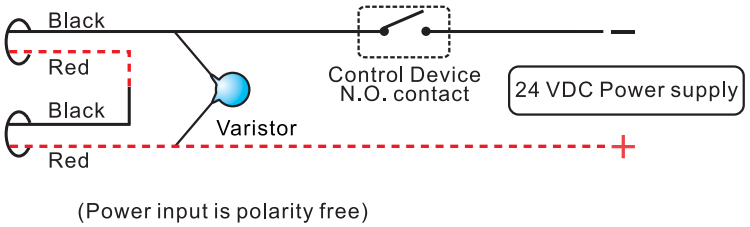


(Power input is polarity free)

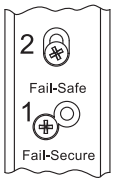


"Fail-Safe"
(Power to Lock)

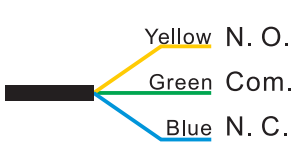




(Power input is polarity free)



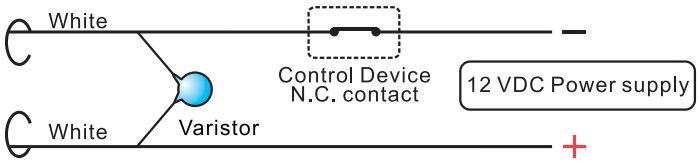
"Fail-Secure"
(Power to Open)



• *Voltage for 12 VDC*

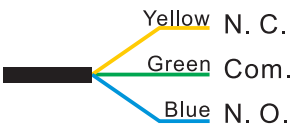
For the **12 VDC** operation only

Lock bolt sensor switch output

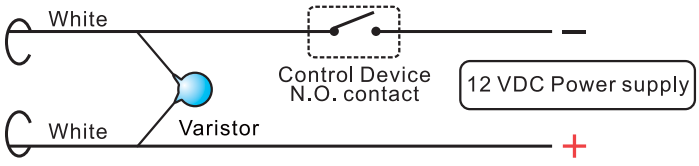


(Power input is polarity free)

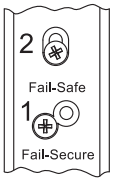
"Fail-Safe"
(Power to Lock)



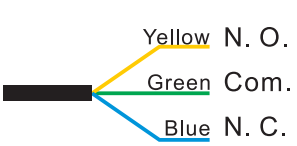
Lock bolt sensor switch output



(Power input is polarity free)



"Fail-Secure"
(Power to Open)



NOTE: The varistor (or diode) must be connected across the lock terminal (electromagnet...) operated by the device. The vartistor controls the overload produced by the strike coil (EMP).