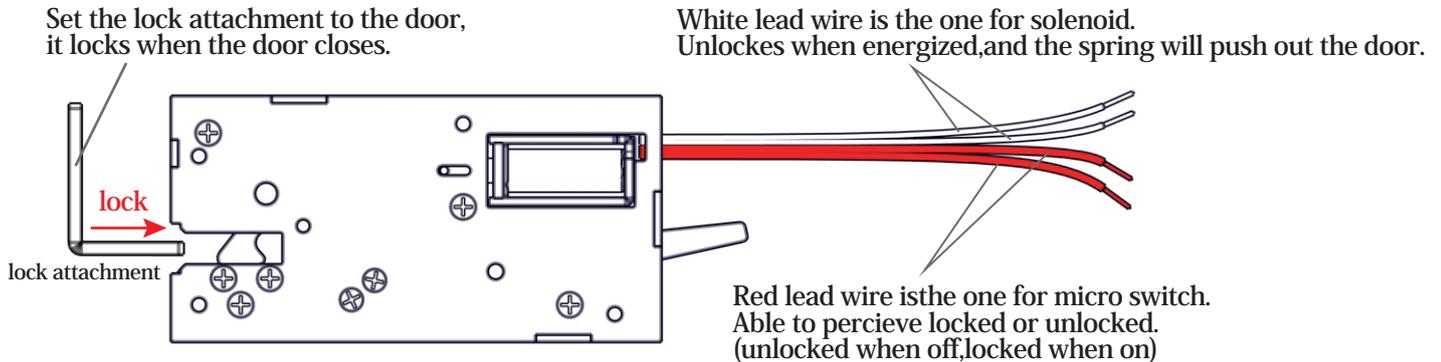


○ Product instruction (unlock lever attached and non are common)



The lead wire of solenoid and micro switch has no polarity. Doesn't matter which you connect 「+」 or 「-」, it will move.

Please follow the rated specifications below when using. Using beyond rated specifications, causes burnout and malfunctions.

rated spec. (ambient temperature 20°C)

product number	coil resistance value	voltage	electric current	Power consumption	Time rating
NL02101 (tape color: black)	18Ω	DC24V	1330mA	32W	6%
NL02102 (tape color: yellow)	4.5Ω	DC12V	2666mA	32W	6%
	4.5Ω	DC6V	1330mA	8W	25%
NL02104 (tape color: black)	18Ω	DC24V	1330mA	32W	6%
NL02105 (tape color: yellow)	4.5Ω	DC12V	2666mA	32W	25%
	4.5Ω	DC6V	1330mA	8W	25%

Operating characteristics (ambient temperature 20°C)

product number	Minimum operating voltage	Unlockable load weight
NL02101	DC10.8V	9.8N/DC24V
NL02102	DC5.4V	9.8N/DC12V
NL02104	DC10.8V	9.8N/DC24V
NL02105	DC5.4V	9.8N/DC12V

※ changes depends on the frequency of use and environment

• Time rating

Able to calculate by the formula below.

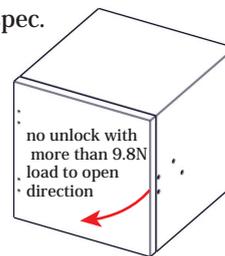
The time rating which is calculated must be lower than rated spec.

$$\frac{\text{energizing time}}{\text{energizing time} + \text{shut-off time}} \times 100$$

The time that can be energized at once is determined by the time rating. Please calculate so as not to exceed the maximum energizing time below.

Maximum energizing time
Time rating: 15sec.
Time rating: 2min.

• Unlockable load weight

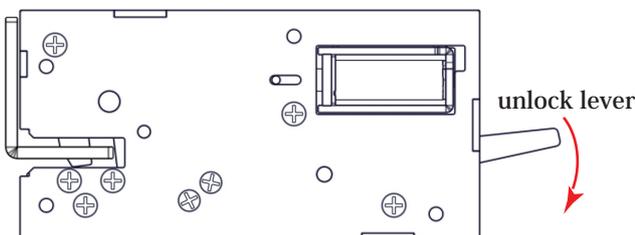


If the opening direction is under a load of 9.8N or more, it cannot be unlocked. Use with the lightest load possible.

○ Emergency unlocking mechanism

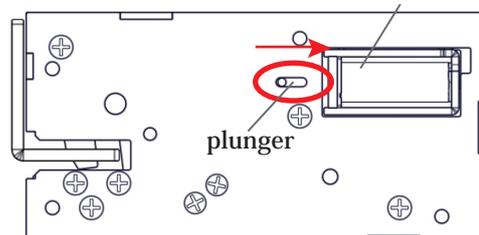
Able to unlock manually with using the emergency unlocking mechanism.

• unlock lever



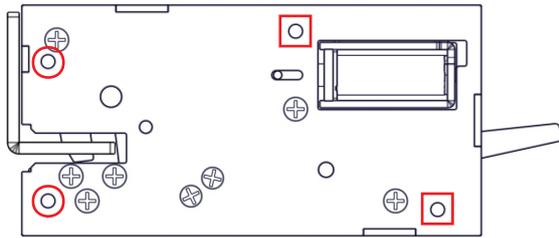
pull down the unlock lever to unlock manually

• plunger (no unlock lever)

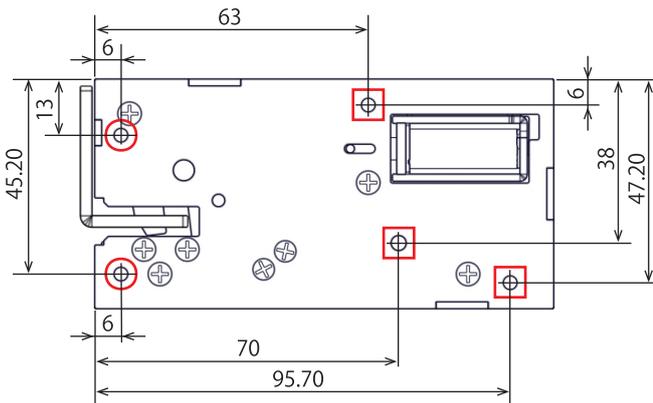


push the plunger to the direction of the arrow to unlock

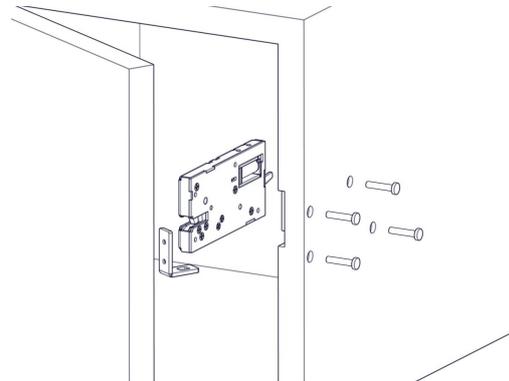
## ○ How to install



With lever : 4 Screw mounting part



Non lever : 5 Screw mounting part



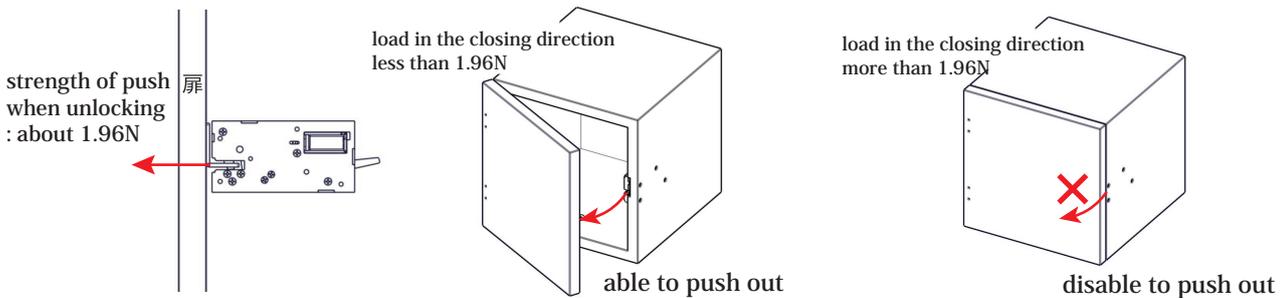
Installation reference diagram(with lever)

Put M4 screw on 2 places of ○ mark part, and more than 1 place of □ mark part of the left figure. Position dimensions of the screw hole is common for lever and non lever. (screw hole are opened on both side front and back, so its able to put screw frow left and right)

## ○ Other guidelines

### • Extrudable load

When unlocking the slimlock, the load that the spring can push is about 1.96N(200g).  
If the load in the closing direction is higher, it will unlock but won't push out.

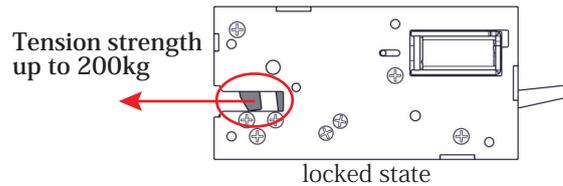


### • Tension strength

When the slimlock is locked, then tension strength is up to 200kg.

### • Endurance

More than 300,000 times of operation.



### • Continuous energizing

To make it unlocked for long time, change the voltage as the written below.

24Vspec : apply DC24V for 0.1sec, then down it to DC6V  
12Vspec : apply DC12V for 0.1sec, then down it to DC3V

