



***CAMLOCK***  
***SYSTEMS***

***SERIES 100***  
***INSTALLATION MANUAL***

**SMARTER  
LOCKING**

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## General (product) description

The Series 100 is an electronic Rotary Latch developed especially for the locking of industrial furniture and cabinetry.

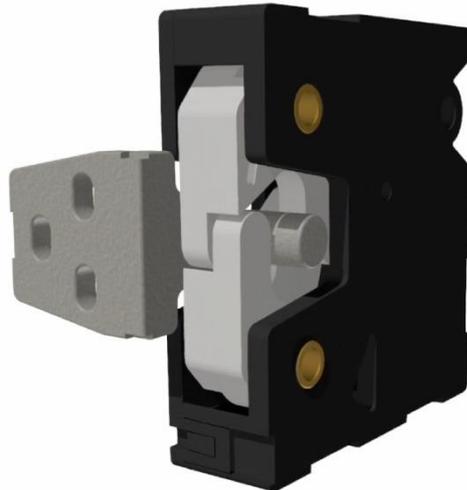
It can be used to replace mechanical locking, adding extra security to prevent unauthorised access. Alternatively, it can be used to control access.

The Series 100 is an ideal solution for locking EV charging stations, drawers, delivery lockers / safe-deposit boxes and Kiosks.

### Physical characteristics

The compact locking unit consists of two parts:

- Part 1: The Rotary Latch (or locking element) which is, for example, mounted laterally inside a delivery locker / safe-deposit box.
- Part 2: The strike (or door stud) which is mounted on the door.



The simplest way to operate the access control system is by means of a key switch. To electronically control, register and monitor the access control system, the Series 100 can be combined with a code, card reader and full access control systems.

When unlocking, the strike is automatically pushed out of the closed jaws as a result, the door is left slightly open.

This design feature makes it easy for users to open applications with smooth, flat doors. For example, like those on click and collect lockers, that do not have pull handles for opening.

### Fail-locked operation:

The series 100 locking unit is exclusively designed for fail-locked operation. Therefore, it must be energised with power to open.

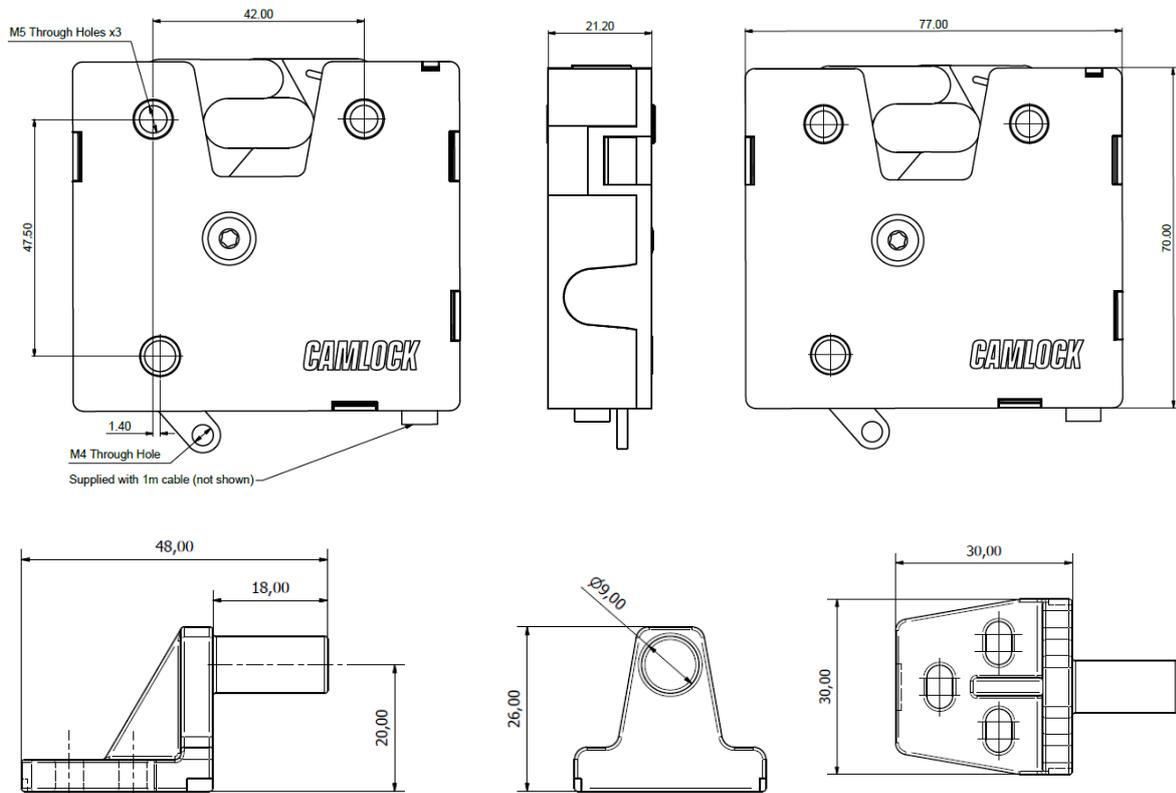
When the door is closed, the locking bolt of the strike engages with the jaws of the latch (the locking element) and the jaws are closed. When the box is required to open, the locking element must be unlocked electrically first.

The Series 100 is available in two versions:

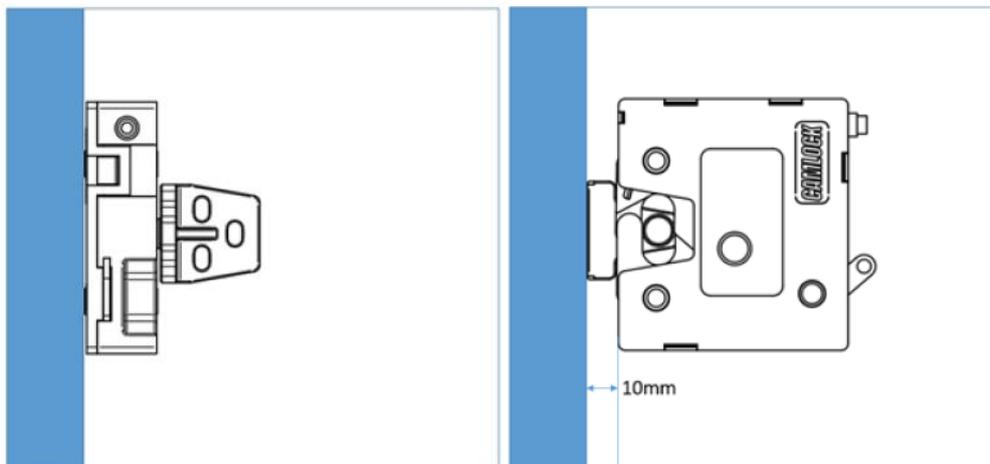
- Two-wire versions, optimised for battery
- Three-wire option - to suit the type of power supply and monitoring controls your application requires.

Both are optimised for 12V, but also available as 5v and 24v.

## Dimensional Drawings



## Mounting of the Lock



## Electrical Connections

### Two-wire system (Optimised for battery use)

The two-wire system is primarily designed for battery use. This is because the lock will only draw power when it is operated – it does not require constant power.

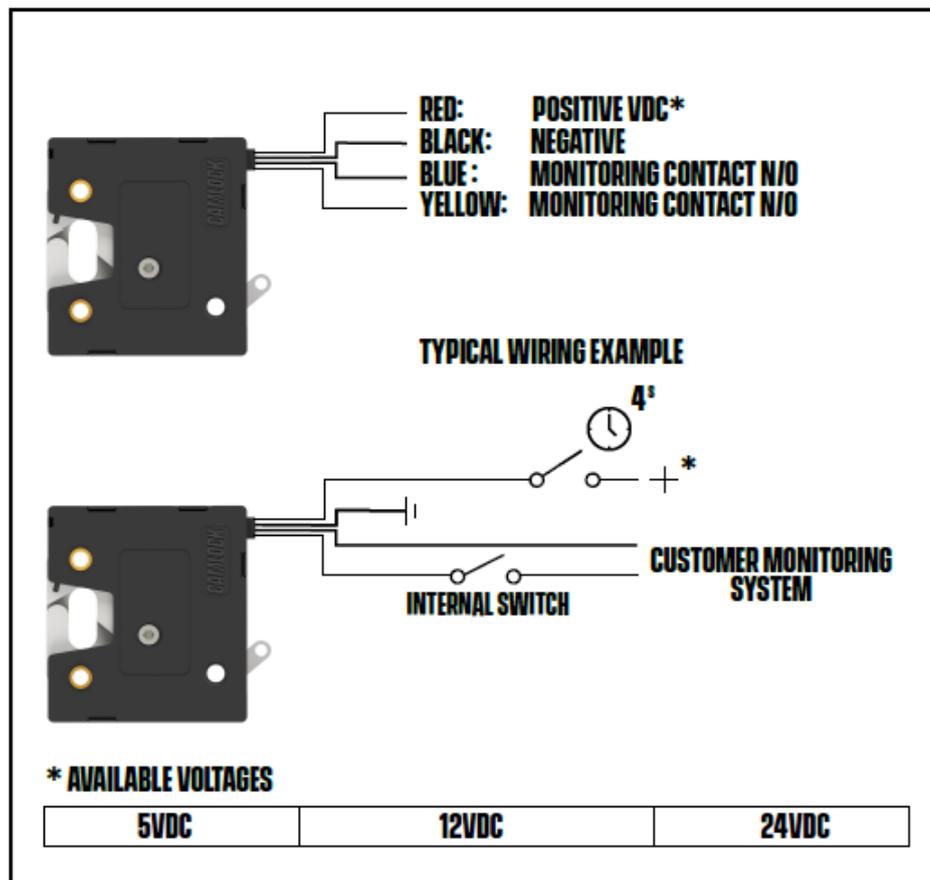
The two-wire configuration is also a suitable alternative solution for those wanting to upgrade from a solenoid-operated system.

### How is the lock operated?

By applying the correct voltage to the positive and negative wires for 4 seconds (red is positive and black is negative) a full unlock/relock cycle of the motor is initiated.

The monitoring function is a clean contact that changes state to a closed circuit when the jaws are in the locked position.

## TWO WIRE



## Three-wire system

The three-wire system gives you greater functionality and control over how the lock functions. To do this, the lock is constantly powered via the red and black cable with the correct voltage.

### How is the lock operated?

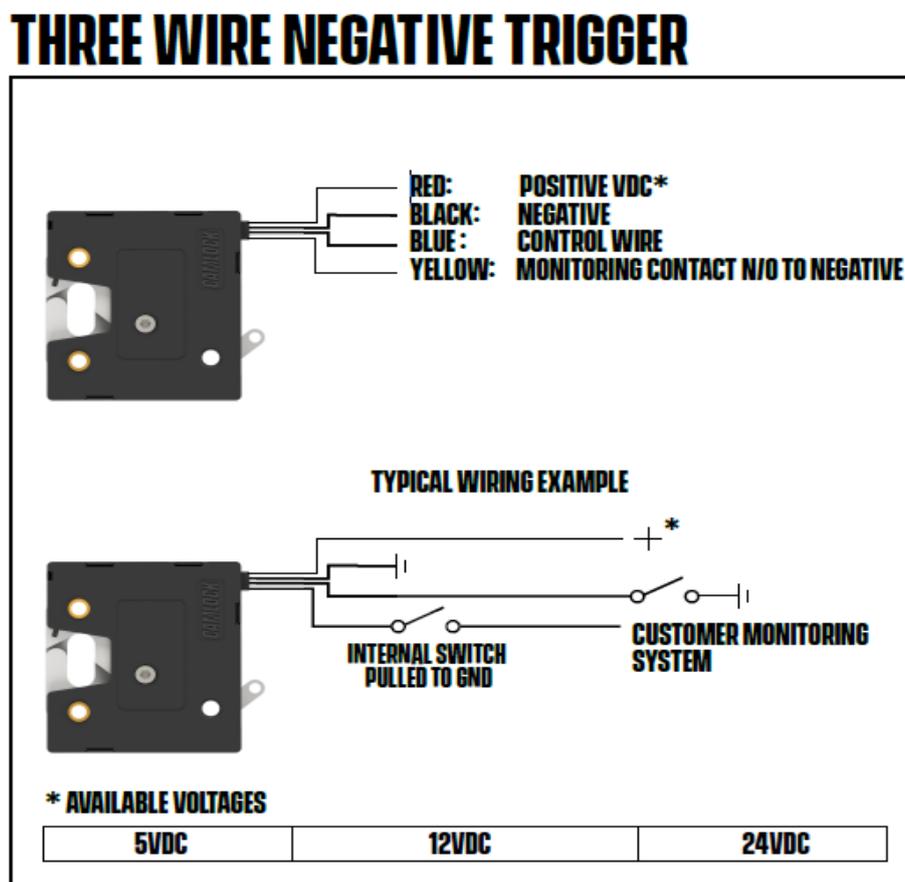
For a negative trigger lock, operate by momentarily shorting the blue trigger wire to the negative terminal (see page 7 for wiring diagram)

For a positive trigger lock, operate by momentarily shorting the blue trigger wire to the positive terminal. (See page 7 for wiring diagram)

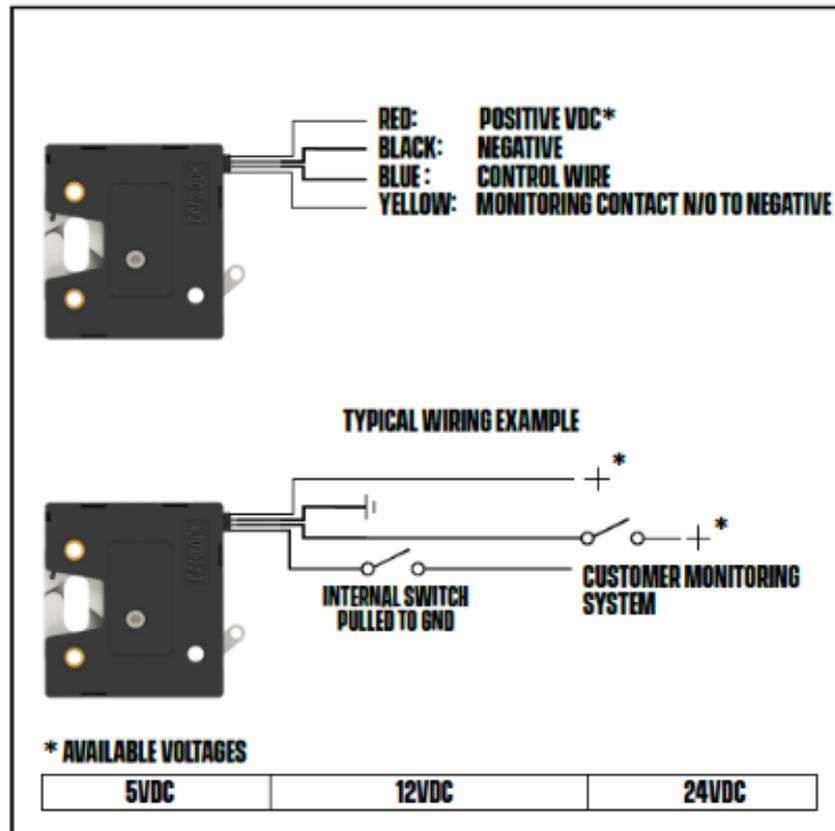
### Hold Open

You can hold the lock in the open position by applying or removing the trigger cable. This is achieved by connecting the trigger wire to either the negative or positive terminal depending the system that you are using.

The monitoring circuit is a single (yellow) wire which is pulled to ground when the jaws are in the locked position.



# THREE WIRE POSITIVE TRIGGER



## Technical Data

Monitoring	Built –in monitoring switch indicates latch is locked or unlocked
Power requirements	150mA@12vDC, 400mA Max
Sprung door opening	Variable spring tension as an option
Materials	Flame resistant GRP housing, Stainless Steel Jaws
Finish	Smooth Black finish
Mechanical override	Yes- Release lever
Patented	Yes- Patent pending
CE Tested	Yes
IP Rating	IP65
Cycle Testing	100,000 Cycles
Forced Opening	Will withstand 7000N
Contact rating	0.5amp @200vDC
Operating Temperature	-40°C to 65°C
Maximum pre load on latch	300N
Fixings	3 x M5 fixing bolts

