

GATE BOLT

Item 28720



MOTOR DEAD-BOLT

INSTALLATION AND USE MANUAL

TECHNICAL DATA

Power wires 1,5mm \varnothing minimum	12 - 24 Vac 12 (13,8 min.) - 24 Vdc Not polarized
Max current consumption	5A at 15Vdc with bolt under load pressure
T1 - Time adjustment between 0-5 seconds from re-locking after door opening	Default timing 2 sec.
T2 - Time adjustment between 0-240 seconds if the door is not moved	Default timing 5 sec
T3 - Time adjustment between 0-240 seconds from to get an alarm if the door remains open	Default timing 30 sec
Contact C./N.O./N.C. to monitor the bolt position	Red/Green LED
Override cylinder output	Blue LED quick flashing
Warms-up output	Blue LED slow flashing
Dry opening contact	0 V
Voltage opening command	12- 24 Vac - Vdc

MODES OF OPERATION

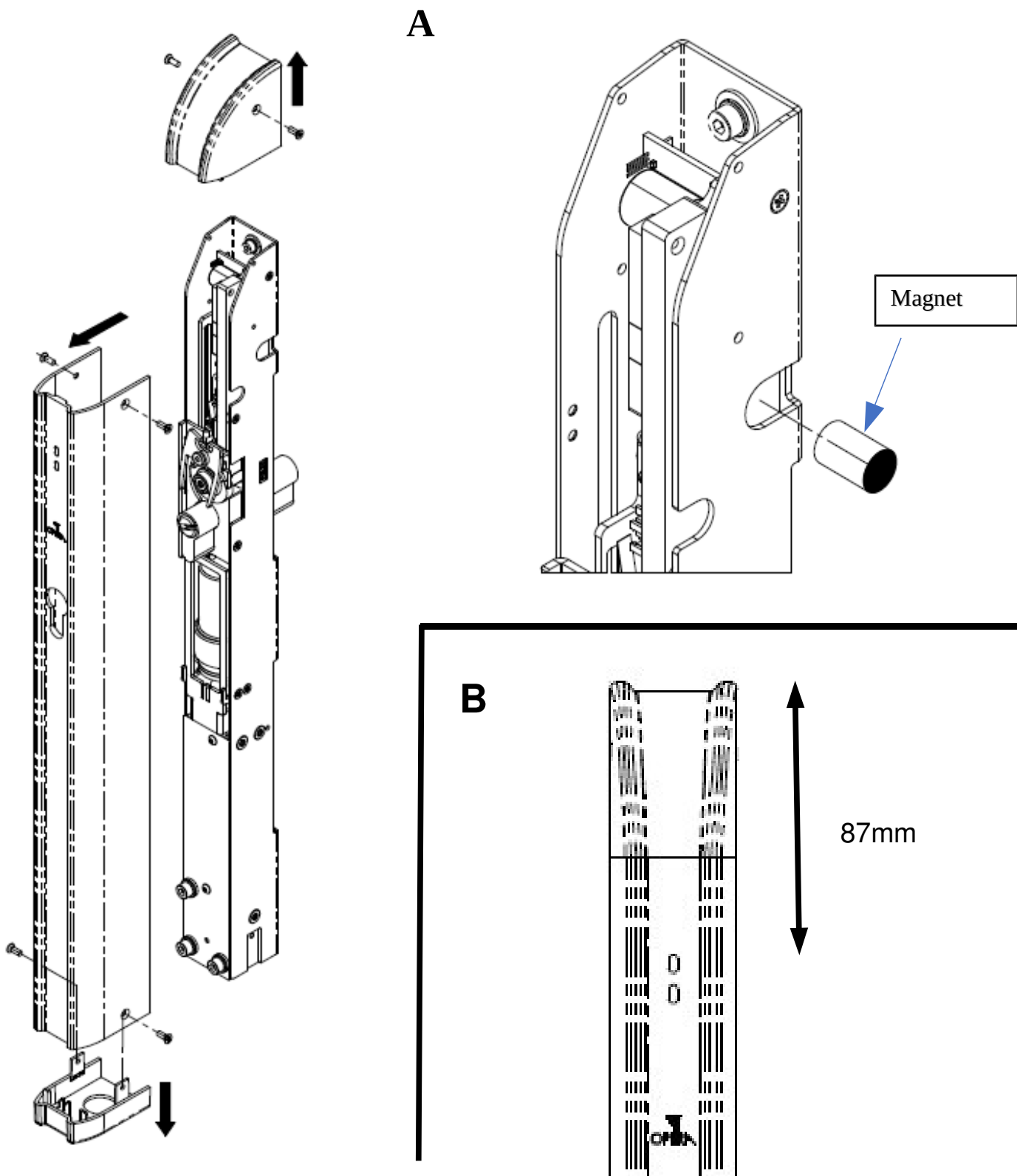
1	Automatic (default)	Automatic re-locking
2	Step by step - Bistable	One command to open, one command to close
3	Automatic fail safe	As Mode 1. The bolt opens in case of power failure. A back up battery is necessary
4	Step by step fail safe	As Mode 2. The bolt opens automatically in case of power failure. A back up battery is necessary

TIME ADJUSTEMENT

MODE OF OPERATION and TIME ADJUSTEMENT are managed by means of a small round magnet supplied in the fixing accessories bag.

These settings can be done without the aluminum cover (drawing A) or with aluminum cover on (drawing B) positioning the magnet at 87mm from the top

These setting must be done locating the round magnet as from the drawing below



HOW TO SELECT MODE OF OPERATION

Set the magnet as indicated in the above drawing, before powering the Legion

1	Automatic (default)	Blue LED 1 flash
4 seconds		
2	Step by step	Blue LED 2 flashes
4 seconds		
3	Automatic, fail safe	Blue LED 3 flashes
4 seconds		
4	Step by step, fail safe	Blue LED 4 flashes
4 seconds		

Once selected the desired MODE, remove the magnet within 4 seconds

TIMING T1

KEEP THE BOLT POWERED WITH OPENING COMMAND ACTIVATED (Red LED on)

- **Checking selected timing** – bring near the round magnet as form above drawing for a second. Blue LED is lit on and the Green LED starts flashing – 1 flash 1 second
- **Setting the timing** - bring near the round magnet as from above drawing and remove it once the wished timing has been reached. Blue LED is off and the Green LED starts flashing representing the selected timing. 1 flash is 1 second

Green LED 1 flash	1 second
Green LED 2 flashes	2 seconds
Green LED 3 flashes	3 seconds
Green LED 4 flashes	4 seconds
Green LED 5 flashes	5 seconds

TIMING T2

KEEP THE BOLT POWERED WITH BOLT TOTALLY OUT (opening command not activated and red LED on). KEEP THE DOOR SENSOR IN CLOSE POSITION

- **Checking selected timing** – bring near the round magnet as from above drawing for a second. Blue LED is lit on and the Red LED starts flashing to represent the time selected according to the below chart
- **Setting the timing** - bring near the round magnet as from above drawing and remove it once the wished timing has been reached. Blue LED is off and the Red LED starts flashing representing the selected timing.

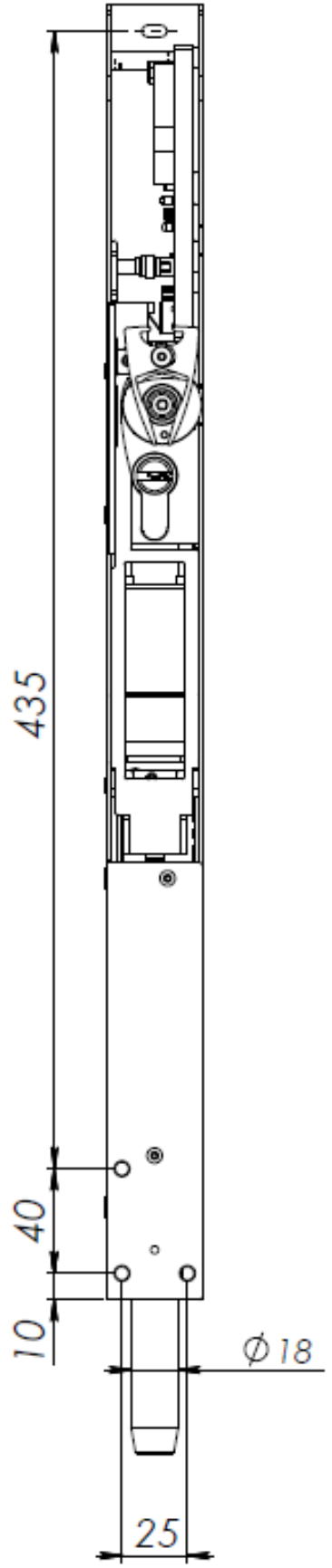
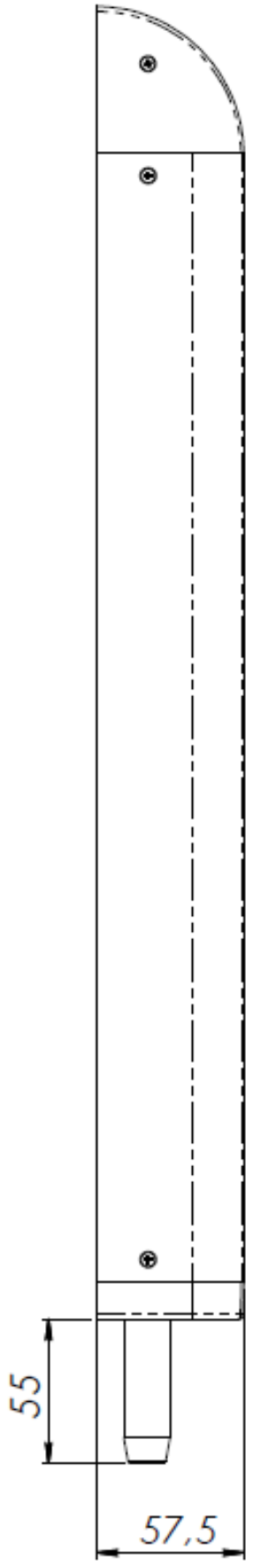
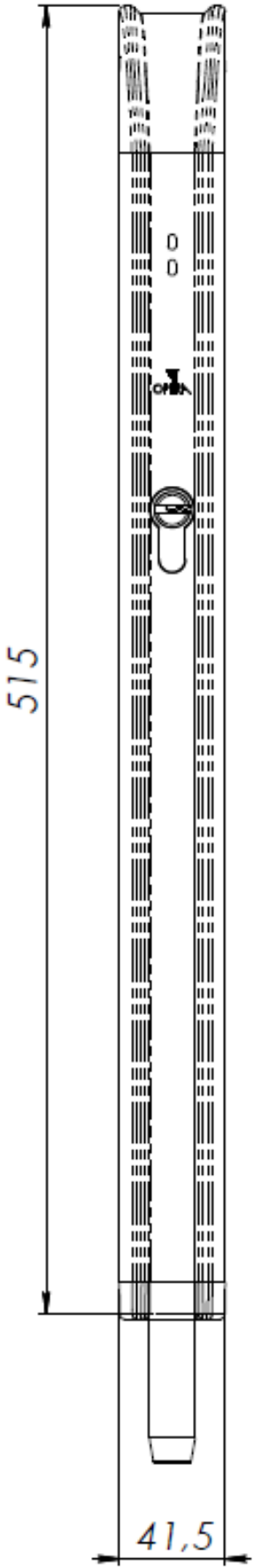
Red LED 1 flash	5 seconds
Red LED 2 flashes	10 seconds
Red LED 3 flashes	15 seconds
Red LED 4 flashes	20 seconds
Red LED 5 flashes	25 seconds
Red LED 6 flashes	30 seconds
Red LED 7 flashes	35 seconds
Red LED 8 flashes	40 seconds
Red LED 9 flashes	45 seconds
Red LED 10 flashes	50 seconds
Red LED 11 flashes	55 seconds
Red LED 12 flashes	1 minute
Red LED 13 long flashes	2 minutes
Red LED 14 long flashes	3 minutes
Red LED 15 long flashes	4 minutes

TIMING T3

KEEP THE BOLT POWERED WITH OPENING COMMAND ACTIVATED AND DOOR SENSOR IN OPEN POSITION (Green LED only)

- **Checking selected timing** – bring near the round magnet as from above drawing for a second. Blue LED is lit on and the Green LED starts flashing to represent the time selected
- **Setting the timing** - bring near the round magnet as from above drawing and remove it once the wished timing has been reached. Blue LED is off and the Green LED starts flashing representing the selected timing.

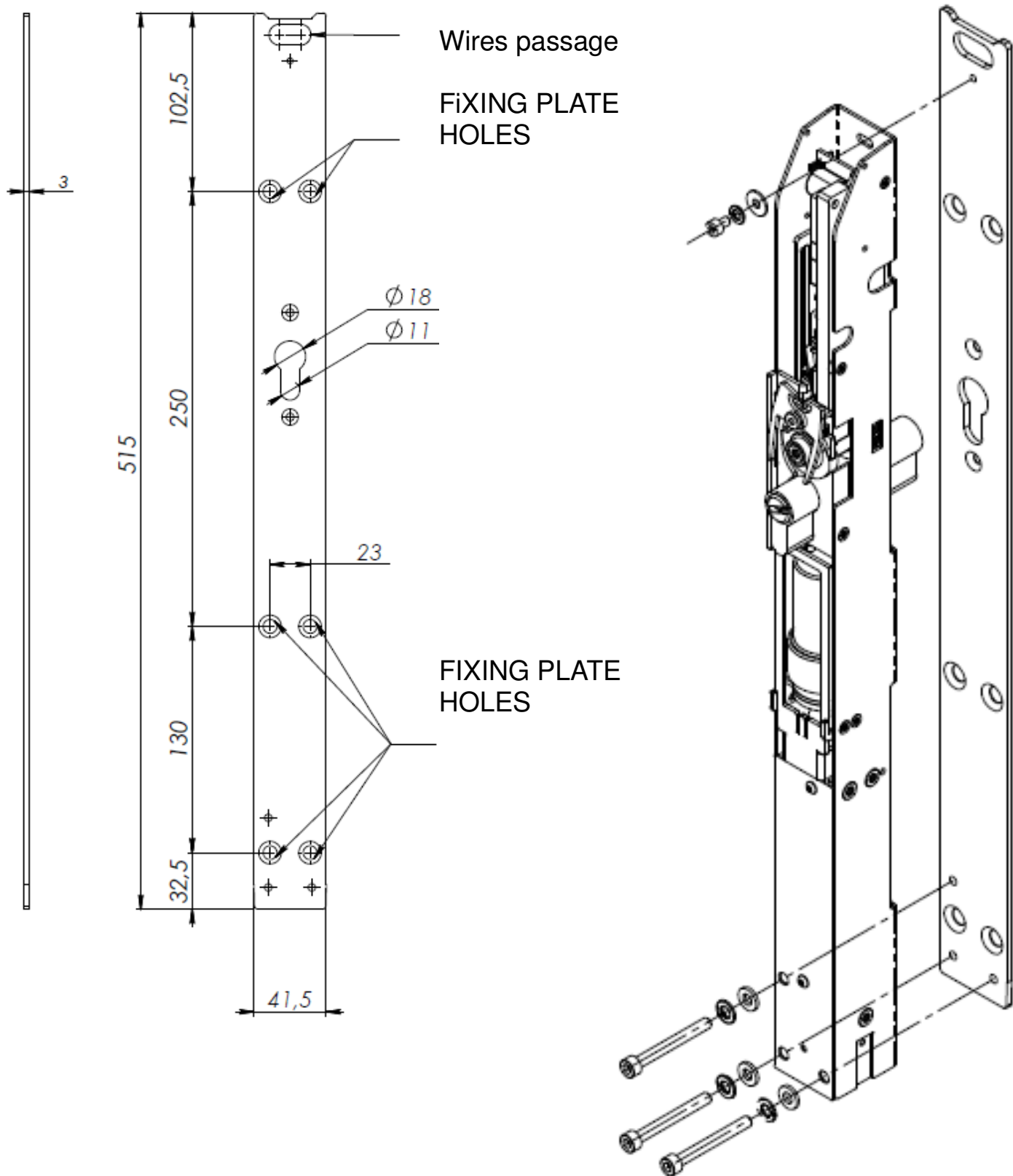
DIMENSIONS



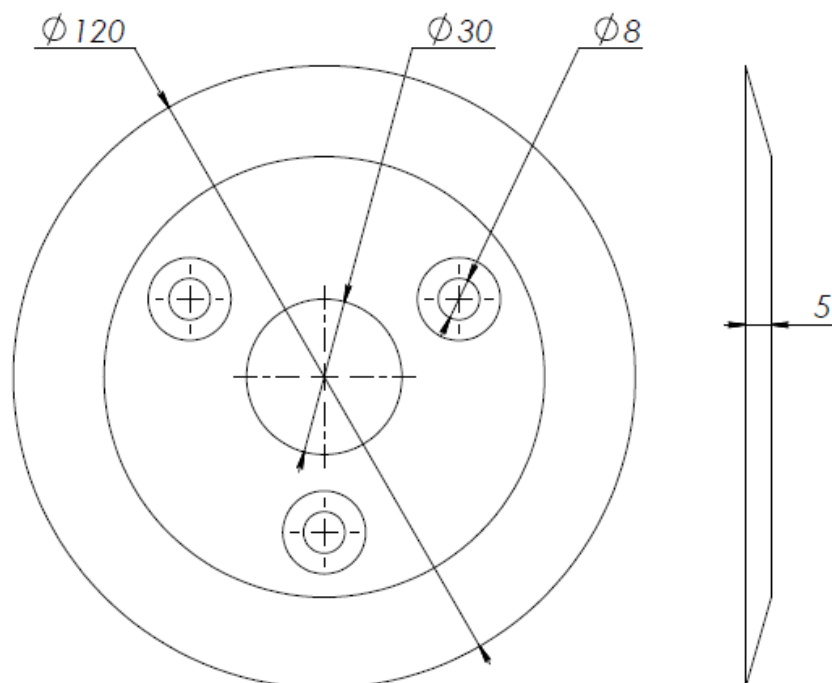
ACCESSORIES

FIXING PLATE ITEM 02287

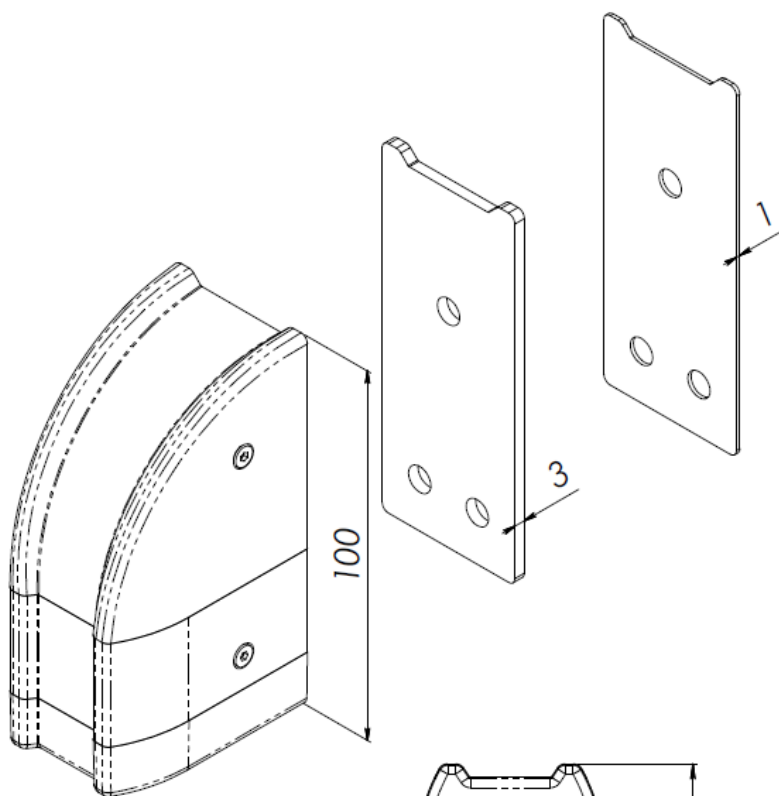
Fix the plate 02287 in position and secure the Legion into the plate using provided screws.



**FLOOR STRIKING
PLATE
02290**



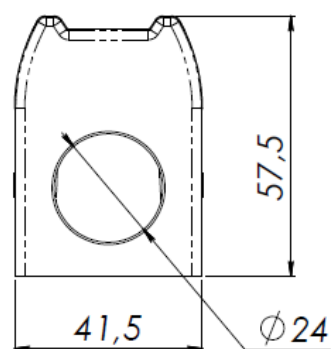
**TOP AND SIDEWAYS
STRIKING PLATE
Code 02291 - Silver
Code 02291N - Black**



SPACERS

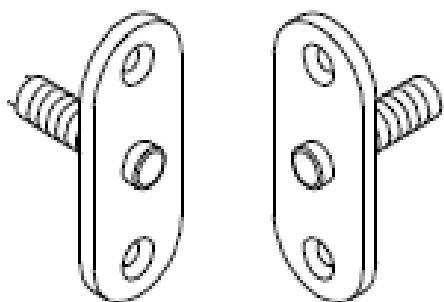
Code 02292 - 3 mm

Code 02923 - 1 mm

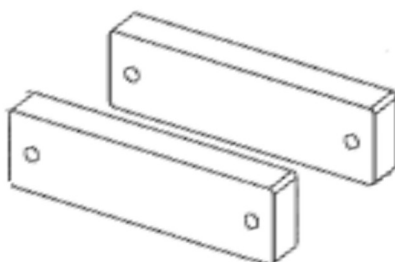


DOOR SENSOR

Code 02221

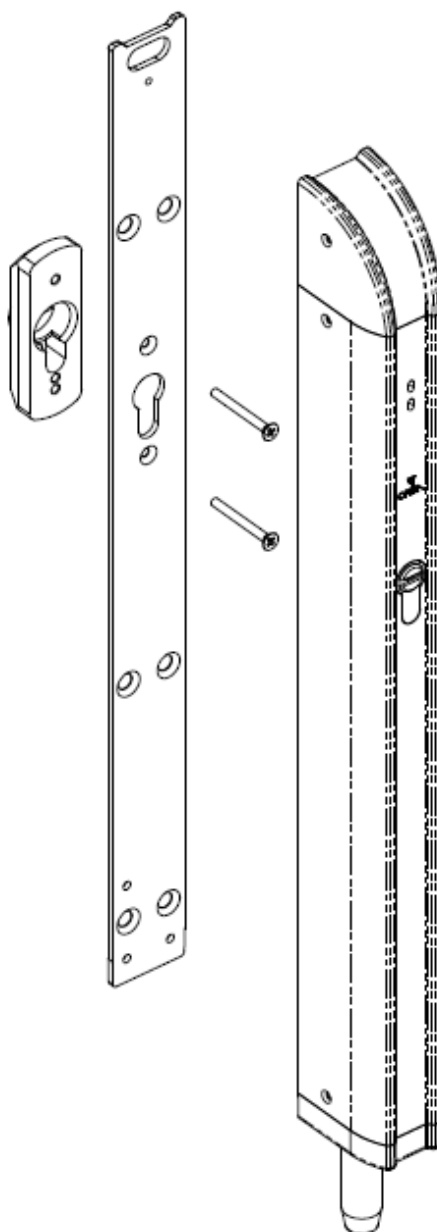
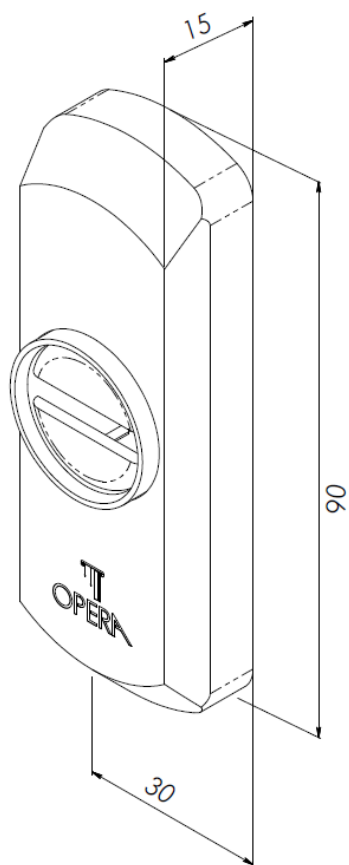


Code 02223



Armored rose
Code 02250LG

For mounting with fixing plate
code 02287

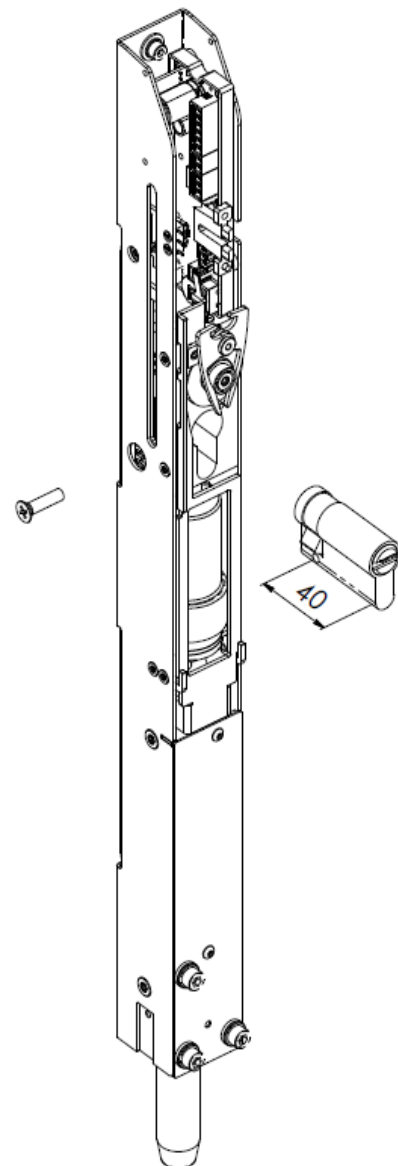
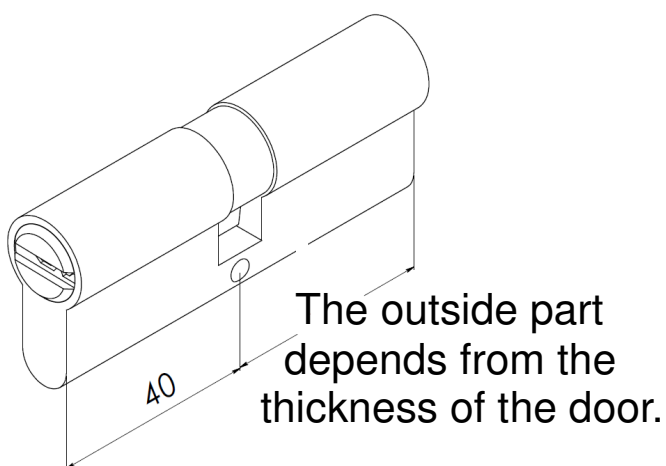


EURO-PROFILE CYLINDER

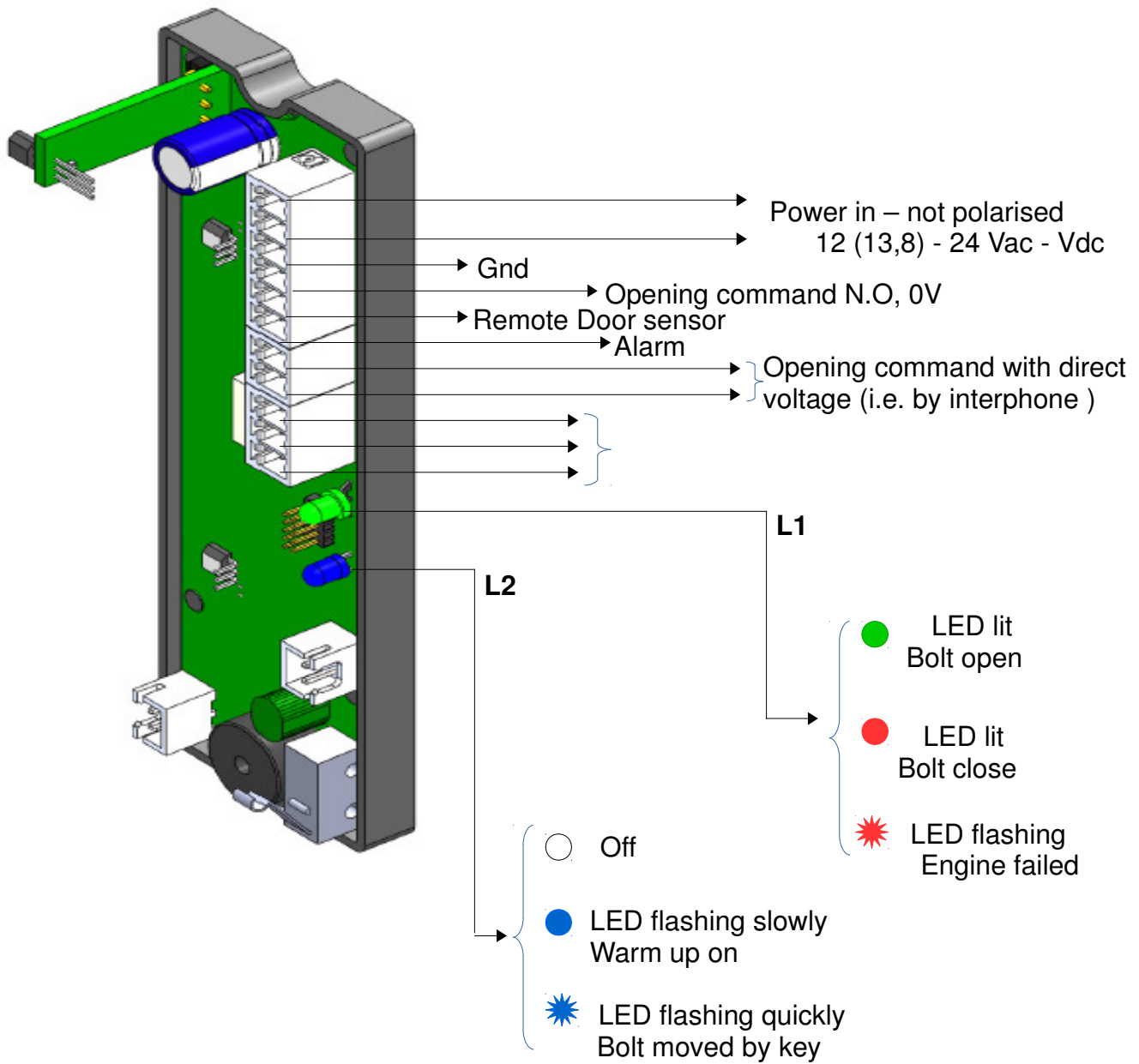
		Inside	Outside
Half cylinder	Legion	40 mm	10 mm
Double cylinder	Legion	40 mm	Door thickness + 15 mm
Double cylinder	Legion + fixing plate	40 mm	Door thickness + 18 mm
Double cylinder	Legion + fixing plate + armored rose	40mm	Door thickness + 30 mm

ATTENTION: to easily access to the fixing hole, the bolt must be closed (out) and the key out of the cylinder.

It is possible to close the lock electrically or inserting the cylinder and proceed with the closing manually by key which will then have to be removed.



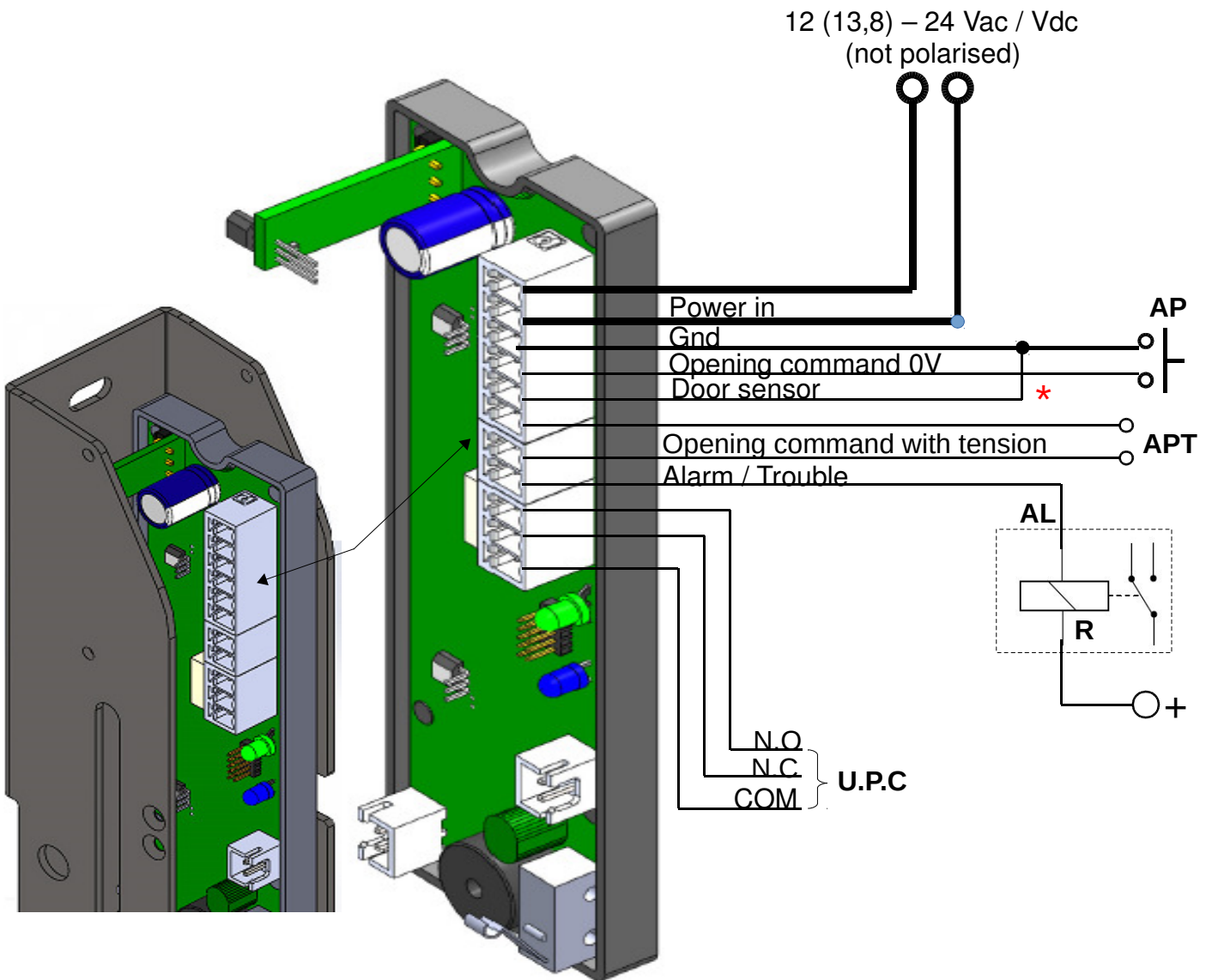
SCHEMES



L1: Red/Green LED to monitor bolt status; red: Bolt Close; green: bolt open; if flashing red it means motor jammed, once remove jamming give a opening command to restore

L2: LED is normally Off; quick blue flashing when bolt is moved by key; slow flahing when the internal warm-up is on

ELECTRICAL CONNECTION



AP: Opening command by dry contact; continuous input keeps the bolt open all time – do not give power on this input

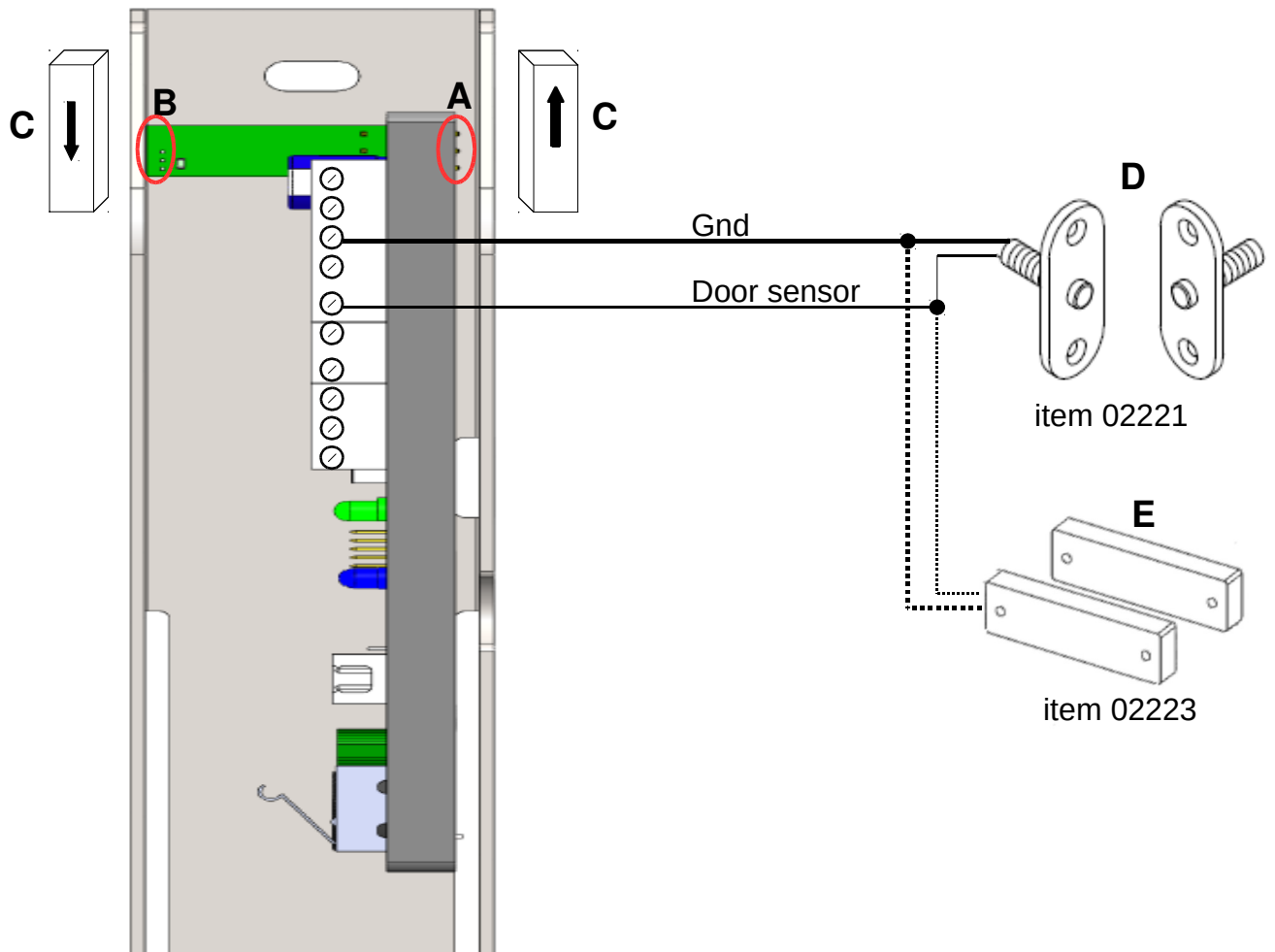
APT: Opening command with 12-24Vac-dc

AL: Open collector output for alarm signal and/or bolt trouble. The Relay R is not provided. It is needed in case of load with consumption > 50mA

U.P.C: Relay output for bolt status

Note: by factory default, the door sensor input is short-circuited so the bolt will always re-lock after the standard timing T2 (5 sec.) regardless the door position
 To change this default parameter, remove the connection door sensor-gnd and connect a door sensor as from next page

A double magnetic sensor is housed inside the electronic circuit to cover both sides of the lock



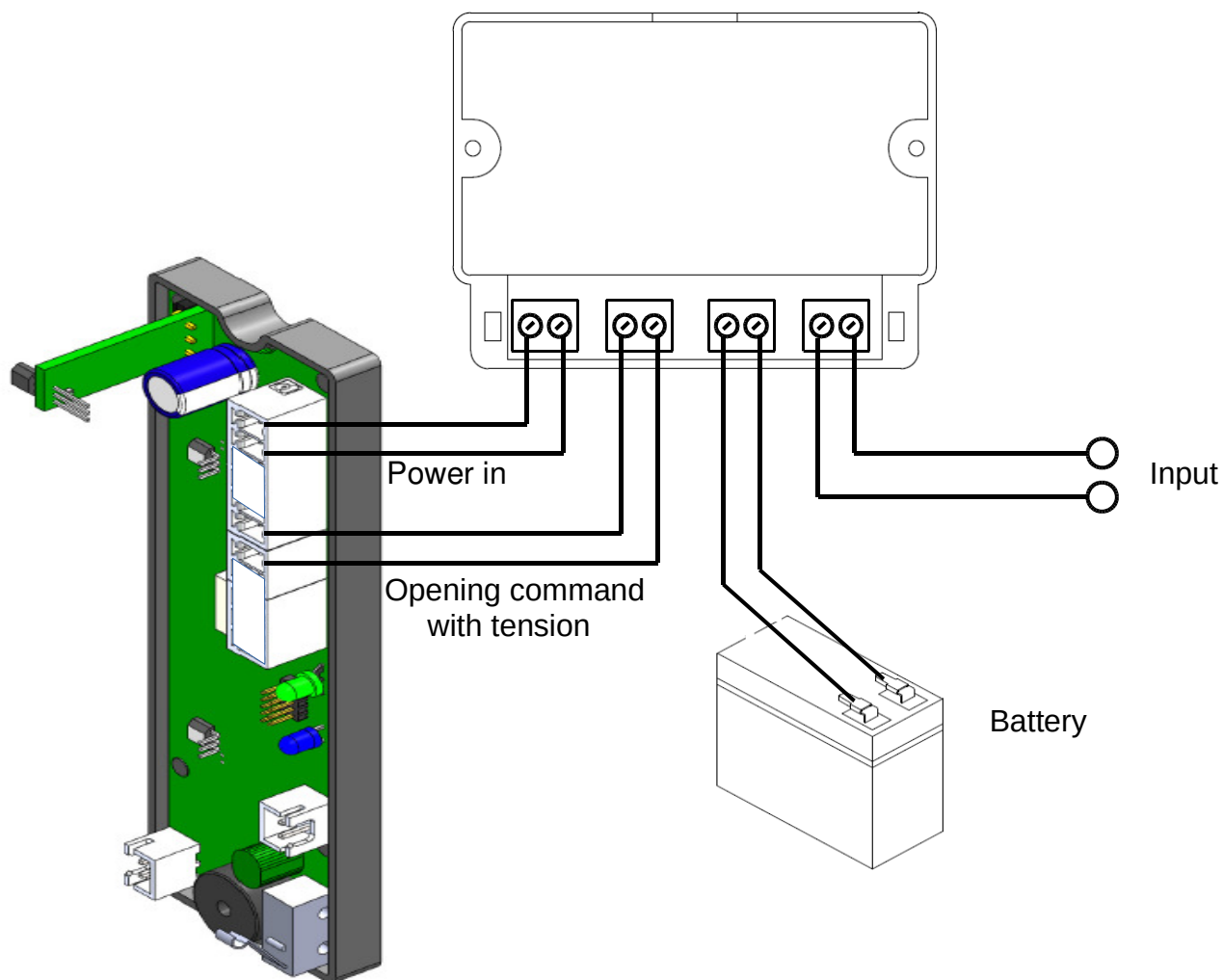
A and B: These are housed-in magnetic readers. To be used they must be paired with magnets **C** (permanent polarized magnets)

D and E: These are remote door sensor that can be used instead of the housed-in reader A and B.

FAIL SAFE CIRCUIT – to be ordered separately

This PCB is made to give a last opening command in case of power failure. The LEGION Bolt will stay open, even when power is back, until a new opening command is given.

When this function is activated, the opening command must be a 0V (dry contact)



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