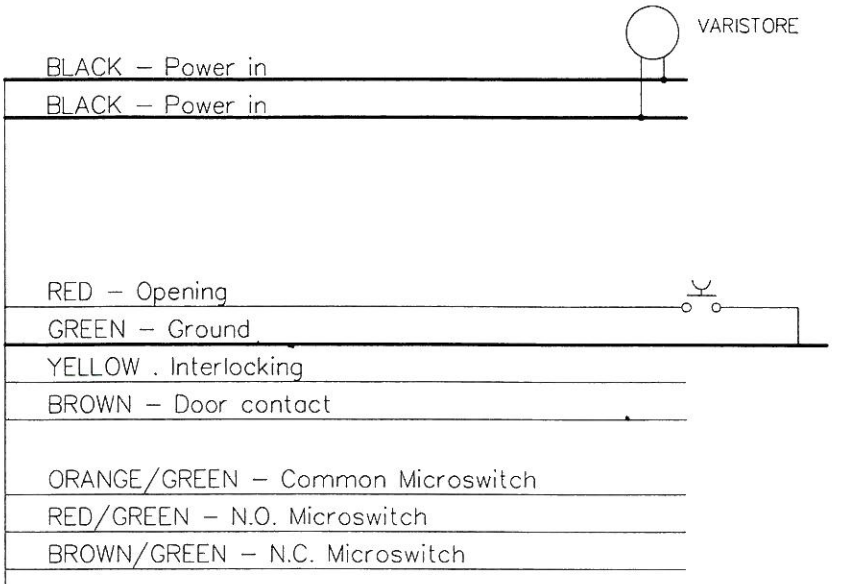
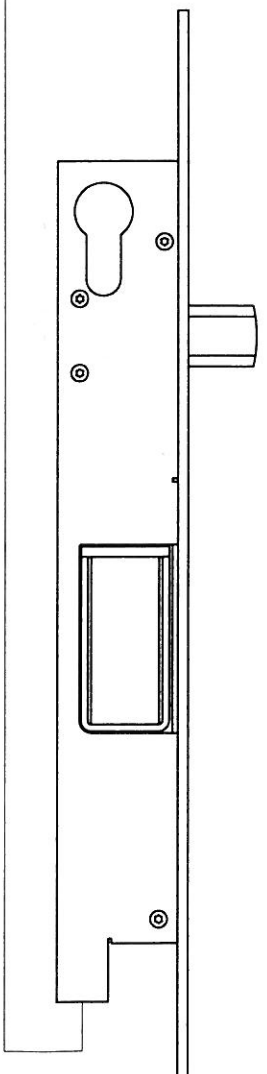
OPERA
OPERATING ACCESS

TECHNICAL INFORMATION FOR SOLENOID BOLT

Prima-OP series OP55036 – OP55038

Installation Chart





Wiring colour	FUNCTION	DESCRIPTION
BLACK	Power in	Power 12 - 25 Vdc – Current consumption 2,5 A/ 250mA -Connect Varistore
BLACK	Power in	
YELLOW / BLACK belt	Input/Output Interlocking	To operate the interlocking procedure. Connect this wire to the YELLOW wire of the other lock.
BROWN	Door contact	N.O. magnetic reed contact to monitor the door position. Max 12 Vdc / 50 mA
RED / BLACK belt	Opening	N.O. Contact connected to ground to operate the opening function.
GREEN / BLACK belt	Ground	Common contact to be connected with all the N.O. contact
ORANGE / GREEN belt	Common Microswitch	Non-energised microswitch for a remote monitoring of the bolt status.
RED / GREEN belt	N.O.Microswitch	
BROWN /GREEN belt	N.C.Microswitch	

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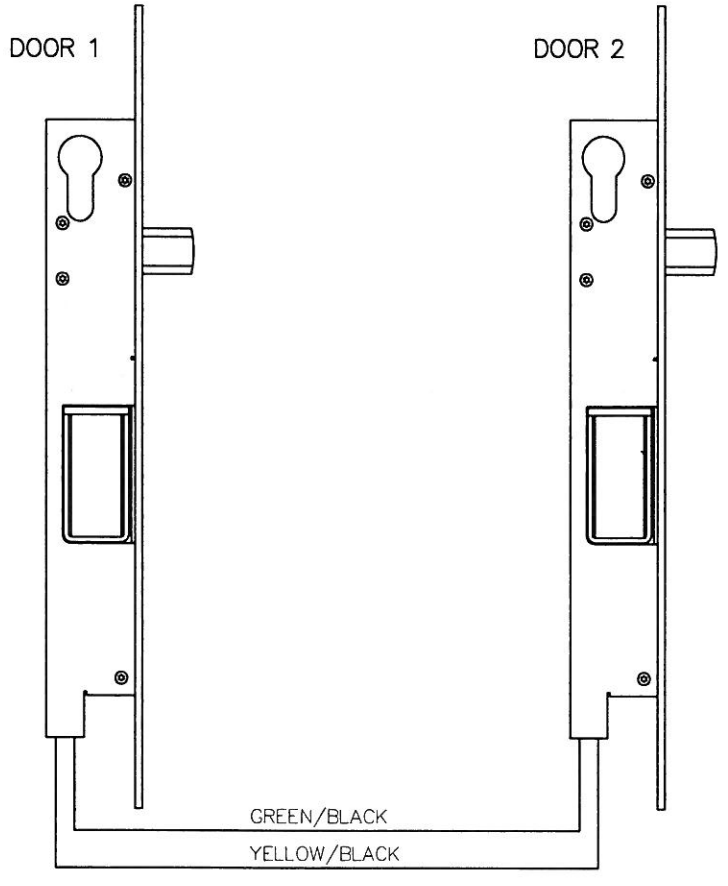
INTERLOCKING CONNECTION

Wiring diagram for 2 or more door interlocked

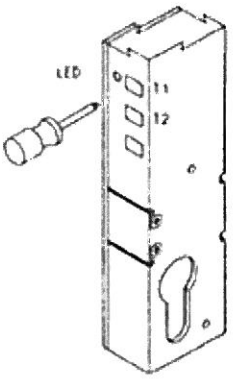


The electronic card housed in the lock allows to control two or more doors interlocked. Follow the above diagram: connect the yellow/black belt wire of the lock 1 to the same wire of the lock 2.
Also the geen/black belt of the two lock must be connected.
In interlocking the electric opening is possible only for one door per time.
In case of a mechanical opening (by key) of the door (with the other door open), an alarmsignal will be raised and it will reset automatically once one of the door re-closed.

Mechanical Override

The mechanical overraide opening is treated axactly as an electric opening. It is possible to set the locking time trough trimmers T1, T2.

How to set re-locking time in the *Prima OP* solenoid bolt



Push button No. 1 top button

This function allows to adjust the re-locking time after the door is closed. Time adjustment between 0-5 seconds from re-locking after door opening. When the door is closed the timing starts.

Checking

Pushing slowly with a screw-driver on the button for just one second, the LED starts flashing.

Any flash represents 1 second programmed. i.e. 2 flashes mean that the door will re-lock 2 sec after the leaf of the door is closed.

Programming

Push the button for 4 sec until the LED is lit on. Keep pushing the button. The LED will lit off and will start flashing.

Any flash represents one second. Leave the button (do not push any longer). The LED will advise you about the setting received flashing; any flash is one second.

Push button No. 2 middle button

This function allows to adjust the re-locking time in case the door is not moved after opening command. Time adjustment between 0-60 seconds from re-locking after door opening. When the door is closed the timing starts.

Checking

Pushing slowly with a screw-driver on the button for just one second, the LED starts flashing. Any flash represents 5 seconds programmed. i.e. 2 flashes mean that the door will re-lock 10 sec after the opening command is given.

Programming

Push the button for 4 sec until the LED is lit on. Keep pushing the button. The LED will lit off and will start flashing. Any flash represents 5 seconds. Leave the button (do not push any longer). The LED will advise you about the setting received flashing; any flash is 5 seconds.

Push button No. 3 bottom button - Only available in 246-248 Prima series

This function allows to get an alarm in case the door remains open after the time set is over.

Time adjustment between 0-120 seconds from door opening. When the door is open the timing starts.

The alarm outlet must be connected to the BLU wire (12V-) and to the power supply (12V+)

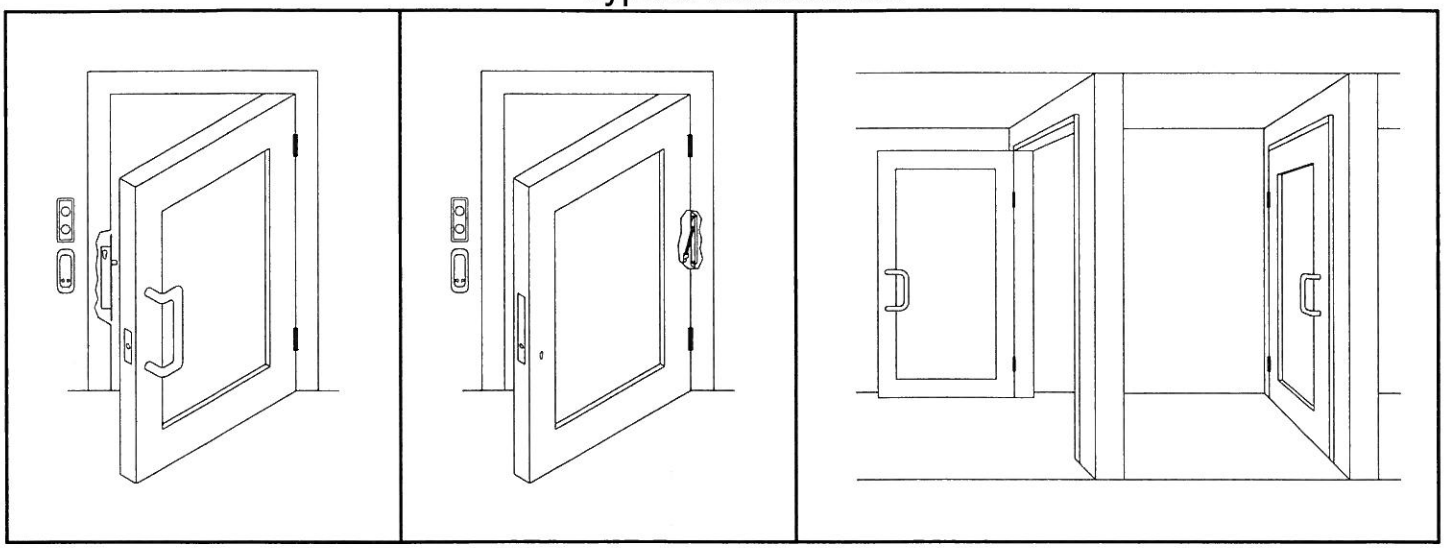
Checking

Pushing slowly with a screw-driver on the button for just one second, the LED starts flashing. Any flash represents 10 seconds programmed. i.e. 2 flashes mean that the alarm will start after 20 sec after the door is open.

Programming

Push the button for 4 sec until the LED is lit on. Keep pushing the button. The LED will lit off and will start flashing. Any flash represents 10 seconds. Leave the button (do not push any longer). The LED will advise you about the setting received flashing; any flash is 10 seconds.

Typical installations

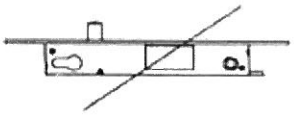


ITEM	DIMENSIONS	BACKSET mm.	POWER	PEAK CURRENT	MAINTENANCE CURRENT
OP5503625	230x35x22	25	12 – 25 Vdc	2.5 A	150 mA
OP5503630	230x40x22	30	12 – 25 Vdc	2.5 A	150 mA
OP5503635	230x45x22	35	12 – 25 Vdc	2.5 A	150 mA
OP5503825	230x35x22	25	12 – 25 Vdc	2.5 A	150 mA
OP5503830	230x40x22	30	12 – 25 Vdc	2.5 A	150 mA
OP5503835	230x45x22	35	12 – 25 Vdc	2.5 A	150 mA
OP5503925	230x35x22	25	12 – 25 Vdc	2.5 A	150 mA
OP5503930	230x40x22	30	12 – 25 Vdc	2.5 A	150 mA
OP5503935	230x45x22	35	12 – 25 Vdc	2.5 A	150 mA
OP550391025	230x35x22	25	12 – 25 Vdc	2.5 A	150 mA
OP550391030	230x40x22	30	12 – 25 Vdc	2.5 A	150 mA
OP550391035	230x45x22	35	12 – 25 Vdc	2.5 A	150 mA

PROBLEM SOLVING

Mechanical installation of the solenoid bolt

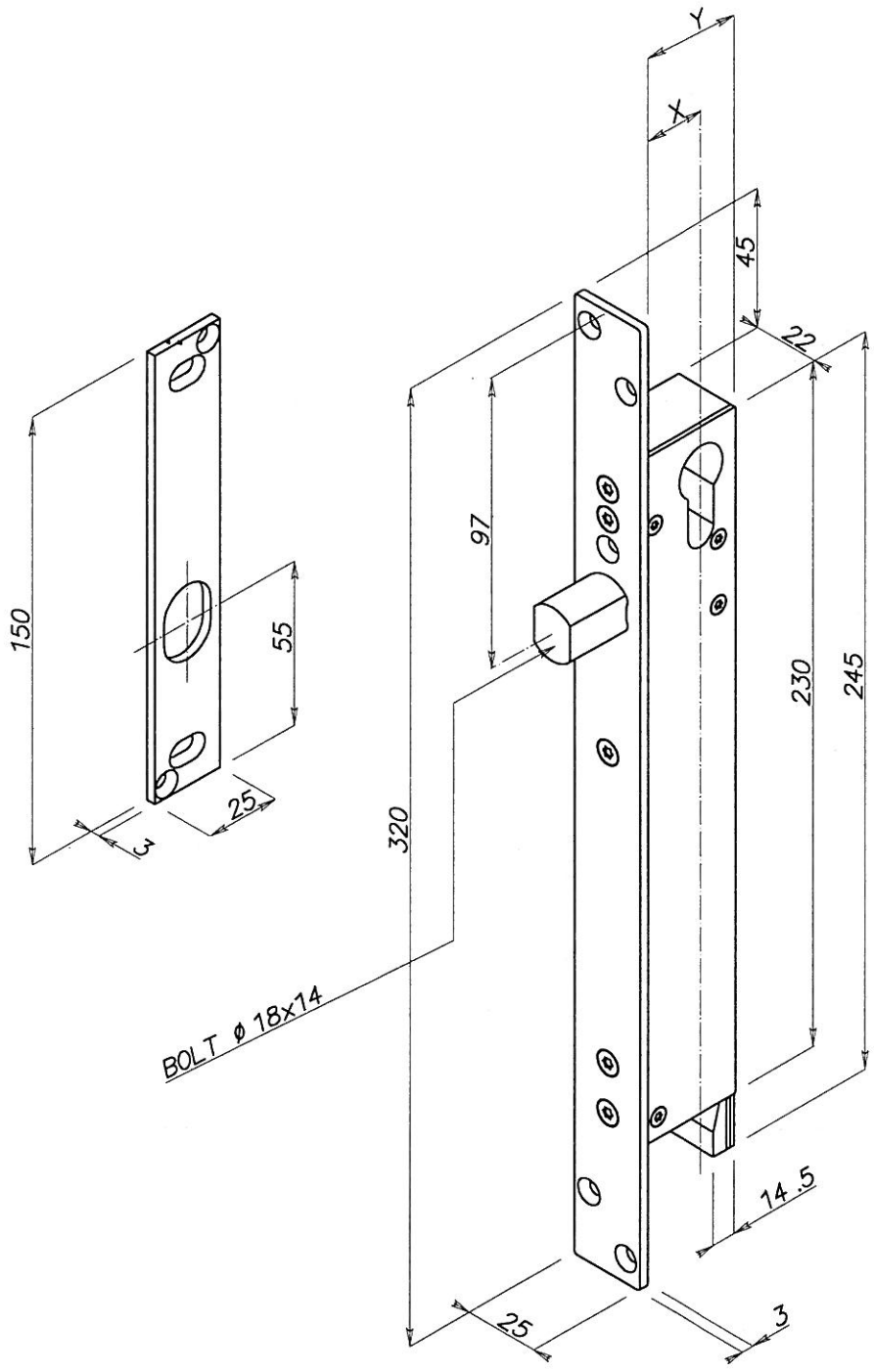
- Identify the position in which the solenoid bolt is to be fitted. The operating position must be vertical, if it is to be fitted with the bolt facing downwards this must be specified on ordering.

		
Corrected	**Not corrected**	**Only on request**

- If the handle function is not used the solenoid bolt can be fitted on the fixed frame of the door
- If the handle function is to be used, the solenoid bolt must be fitted on the door itself. In this case, use a cable cover to protect the wires connecting the door (hinge side) to the frame.
- Do not use the solenoid bolt as a drilling template and do not carry out machining operations on the profile once the lock has been fitted. Metal chippings and sawdust might damage the product. Before fitting the solenoid bolt, make sure there are no burrs on the profile.

Problem	Possible reason	Solution
The solenoid bolt does not move or moves slowly.	1. Insufficient power supply	1. Check that there are at least 12Vdc and at least 2.5 A power in each of the black power cables. This test must be carried out keeping the bolt blocked with your fingers, after commanding it to open using the red and green wires. This allows absorption to be measured during the phase in which maximum peak current is required. If the power supply is not sufficient, use a power feeder of at least 3A and, above all, use wires with a diameter of not less than 1.5mm.
	2. The solenoid bolt will not accept the command to open.	2 . The solenoid bolt requires to be serviced by Opera technicians. Do not open the lock; any tampering will result in invalidation of the guarantee. Contact your local Opera dealer or service centre.
The solenoid bolt opens and closes a number of times without any apparent reason	1. Friction between the bolt and the counterplate. **2.** Insufficient power supply	1. Check that the bolt slides freely, by activating it mechanically with the key. If there is any friction, adjust the counterplate so that it is properly aligned. **2.** Check that there are at least 12Vdc and at least 2.5 A power in each of the black power cables. This test must be carried out keeping the bolt blocked with your fingers, after commanding it to open using the red and green wires. This allows absorption to be measured during the phase in which maximum peak current is required. If the power supply is not sufficient, use a power feeder of at least 3A and, above all, use wires with a diameter of not less than 1.5mm.

DIMENSIONS



BACKSET	X	Y
A. 25	22	35
A. 30	27	40
A. 35	32	45