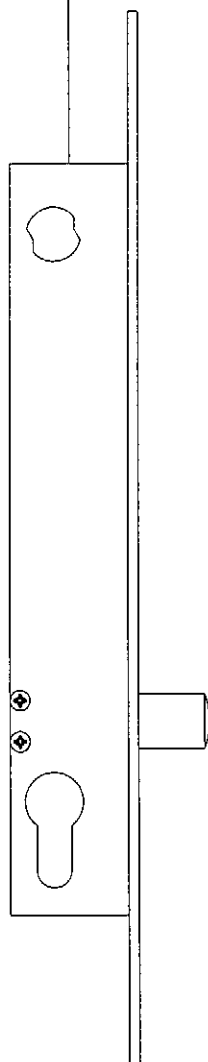
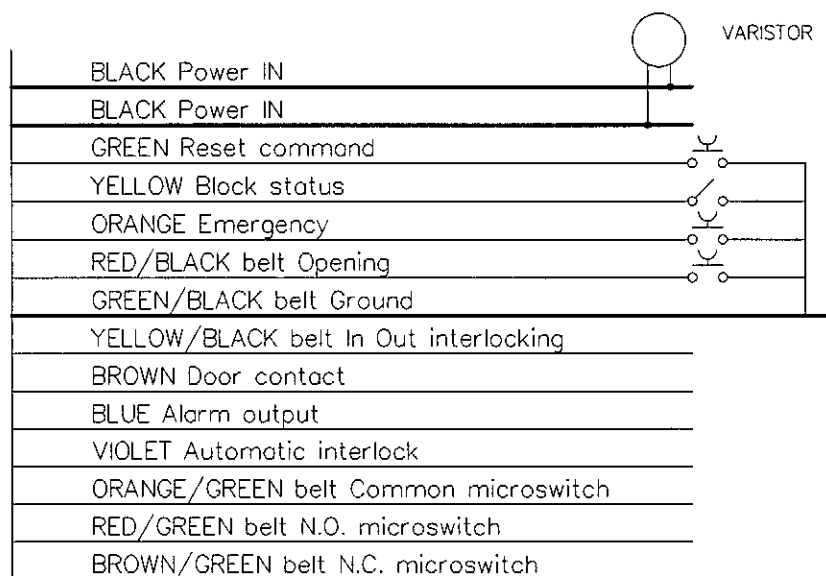


## ASSEMBLY INSTRUCTION FOR SOLENOID BOLT

### *Prima series 246 - 248*

#### Installation Chart



Wiring colour	FUNCTION	DESCRIPTION
BLACK	Power in	Power 12 - 25 Vdc
BLACK	Power in	12 - 18 Vac – Current consumption 2,5 A / 250mA -Connect Varistore
YELLOW / BLACK belt	Input/Output Interlocking	To operate the interlocking procedure. Connect this wire to the YELLOW wire of the other lock.
GREEN	Reset	N.O. Contact connected to ground to operate the alarm reset function.
YELLOW	Block	N.O. Contact connected to ground to operate the block of the electronic functions.
ORANGE	Emergency	N.O. Contact connected to ground to operate the emergency function. It open immediately the doors activating the alarm.
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
BLUE	Alarm	Open Collector contact for the alarm signal. Max 12 Vdc / 50 mA
VIOLET	Automatic interlock	Automatic opening of the 2° door if connected in interlock (optional)
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	



## How to set re-locking time in the *Prima* 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

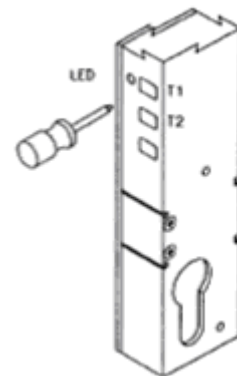
Pushing slowly with a screw-driver on the button for just one second, the LED starts flashing.

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

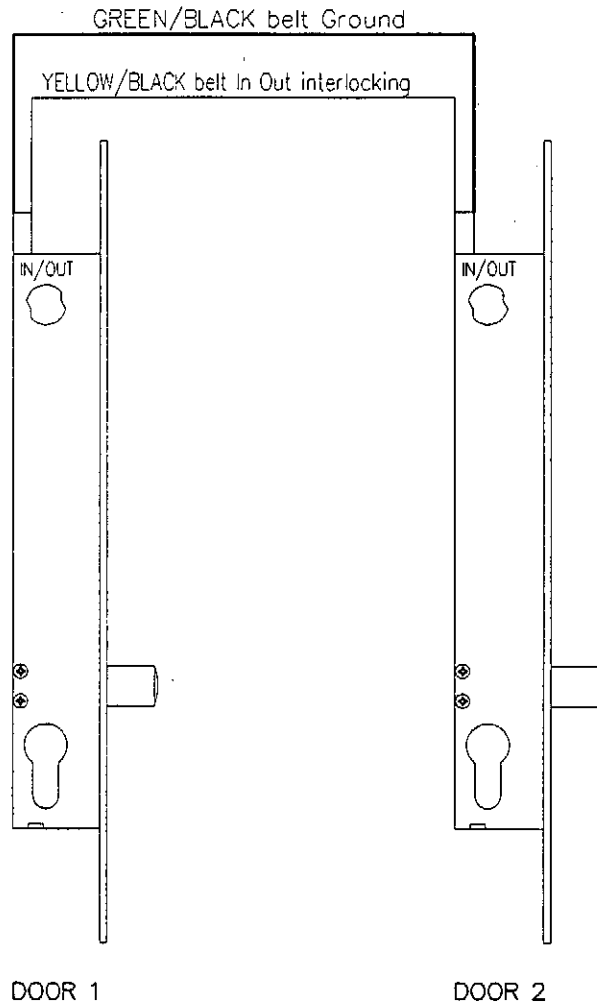
Push the button for 4 sec until the LED is lit on. Keep pushing the button. The LED will lit off and will start flashing.

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.



## 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 green/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 alarm signal will be raised and it will reset automatically once one of the door re-closed.

### Mechanical Override

The mechanical override opening is treated exactly as an electric opening. It is possible to set the locking time through trimmers T1, T2.

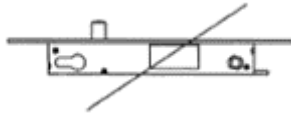


Mechanical installation of the Solenoid bolt

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. This version must be demanded on order

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 lead 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 solenoid bolt 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.

Troubleshooting		
Problems	Possible reason	Solution
The bolt does not move or moves slowly.	<ol style="list-style-type: none"> <li>1. Insufficient power supply</li> <li>2. The lock does not accept the command to open.</li> </ol>	<ol style="list-style-type: none"> <li>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.</li> <li>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 center</li> </ol>
The solenoid bolt opens and closes a number of times without any apparent reason.	<ol style="list-style-type: none"> <li>1. Friction between the bolt and the counterplate.</li> <li>2. Insufficient power supply</li> <li>3. Magnetic sensor dirty or short-circuiting</li> </ol>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. 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 center</li> </ol>
The bolt comes out when the door is open.	<ol style="list-style-type: none"> <li>1. Magnetic sensor dirty or short-circuiting</li> </ol>	<ol style="list-style-type: none"> <li>1. 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 center</li> </ol>

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