

# Sargent & Greenleaf, Inc.

Model 6102-090 Duress Module and  
Model 6102-100 Remote Enable with Duress  
Module for 6124, 6125, 6126, 6127, 6128, 6129, and Z<sup>03</sup> Series (models 2003, 2005) Electronic Locks

## Installation and Operating Instructions

### Mounting Considerations

- The module is mounted with one screw per Figure 7.
- The duress (silent alarm) feature of the modules can be used with the S&G 6124, 6125, 6126, 6127, 6128, 6129, and Z<sup>03</sup> (models 2003, 2005) series electronic locks.
- The remote enable feature of the 6102-100 module can be used with S&G electronic locks in the 6120, 6123, 6124, 6125, 6126, 6127, 6128, 6129, Z<sup>02</sup> (models 2002, 2004) and Z<sup>03</sup> (models 2003, 2005) series.
- Both modules can readily be added to new or existing installations.
- Unless the module is installed within 10" (25 cm) of the lock, S&G lock extension cables will be required.
- Care must be taken to protect wiring from being damaged or broken during installation and when the safe is in service. Avoid routing the wires near moving parts of the safe and boltwork. Use wire tie devices to secure all wires that must be routed near moving parts.
- The modules have very low power consumption and are powered by the 9V alkaline battery (or batteries) in the keypad with very little effect on battery life.

### Installation . . .

#### Step 1

Locate a smooth flat area on the inside of the safe door to mount the module. It should be located within 10" (25 cm) of the lock. Drill and tap (1) - #8-32 (or M4) hole for mounting per the "Outline" drawing, Figure 7. The orientation of the module does not affect operation.

#### Step 2

Clean the mounting surface for the module with alcohol if any dirt or oil is on the safe door. Remove the paper cover from the adhesive strips on the bottom of the module. Position the module base over the mounting hole and press firmly in place.

#### Step 3

Position the module cover over the base and mount with screw provided - (1) #8-32 (silver colored) or (1) M4 (red colored).

#### Step 4

For motor locks (Figure 1, on the left), remove the self-adhesive, foam wire protector from the lock cable and gently pull lock cable out of the cable slots on the bottom of the lock. For Z-series locks (Figure 1, on the right), carefully pull the cable through the lock case hole so that it no longer runs through the lock from back to front. Then, for both styles of locks, connect the keypad cable provided with module into the telephone-type connector on the module. Gently pull on the cable to ensure the plug is locked into the module connector. Carefully route the keypad cable from the module through the same channel where you removed the lock cable, and mount the lock in accordance with the appropriate lock installation instructions. *Note: The lock cable remains entirely inside the safe for connection to the module.*

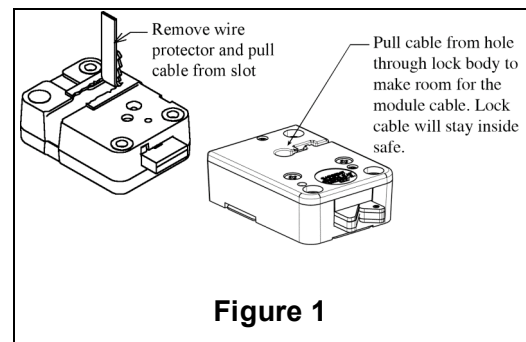


Figure 1

## Model 6102-090 Duress Module and Model 6102-100 Remote Enable with Duress Module Installation and Operating Instructions

### Step 5

Plug the lock cable into the module 4-pin connector and use one of the wire ties to secure the lock cable to the wire tie mount provided (see Figure 3 to locate wire tie mount on safe panel).

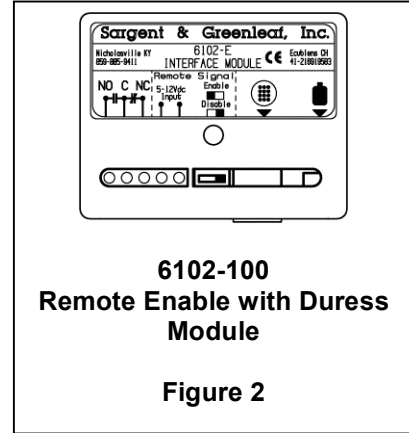
### Step 6

Complete the installation of the lock keypad in accordance with the lock installation instructions.

### Step 7

Verify proper operation of the lock/module installation a minimum of three times prior to closing the safe door.

**Note: On the 6102-100 Remote Enable with Duress module (Figures 2 and 5), if the Enable/Disable switch is in the “Enable” position, the lock will not operate unless the remote voltage signal is applied to terminals 4 and 5.**



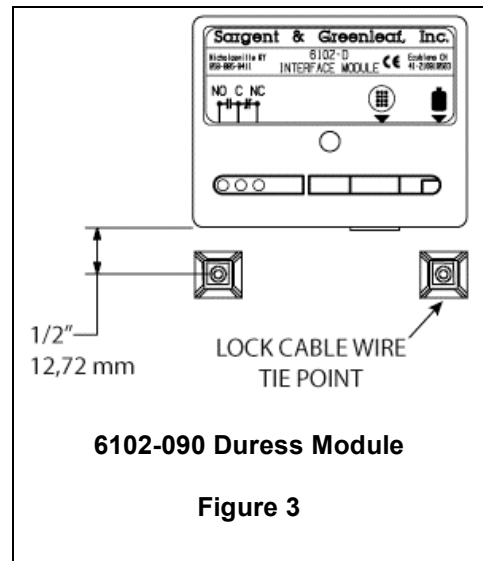
### **Note for Special 6102-C Module:**

*The special module marked “6102-C” on its label has an internal battery lead for connection of a 9V battery to power the lock and module. When this internal battery option is used, no batteries are required in the keypad to operate the lock and module. However, a battery can be installed in the keypad to open the lock if the internal battery is too low to open the lock.*

### Wiring Guidelines . . .

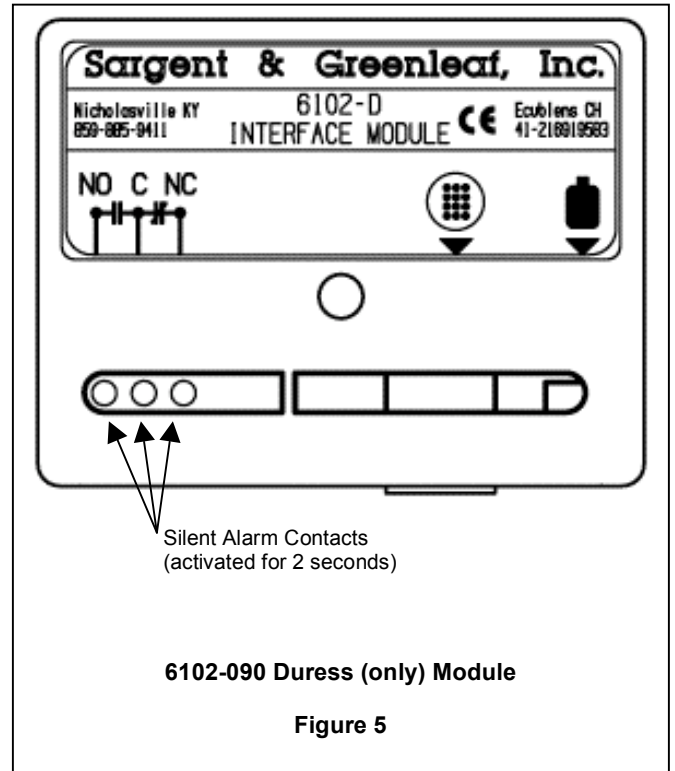
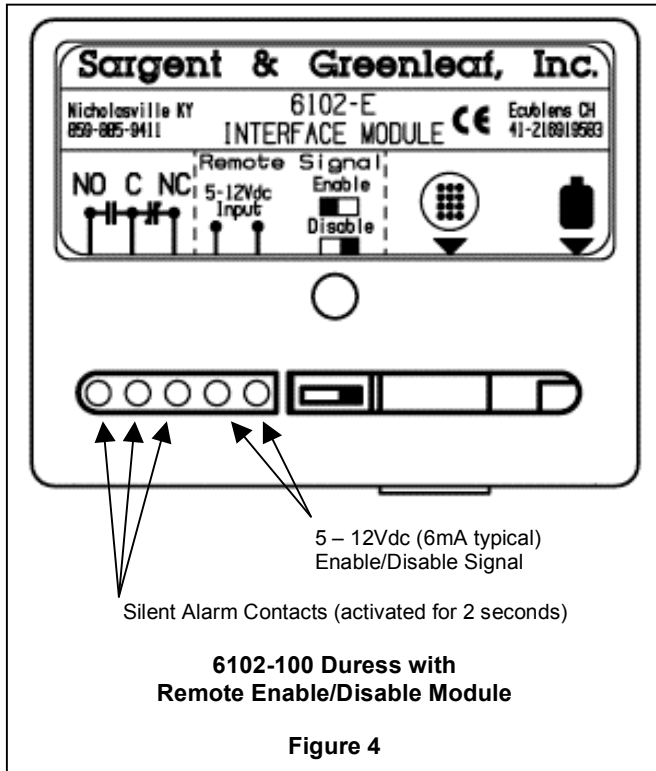
For external wiring to module terminal block:

- For strain relief, route wires to utilize wire tie points indicated in Figure 3.
- Wire size range for wiring terminals: 16 to 30 AWG (solid or stranded wire)
- Suggested wire strip length is .20” (5 mm).
- Maximum terminal screw torque is 5 in-lb (0.5 Nm).
- The normally open and normally closed Duress (silent alarm) contact connections are indicated on the module label.
- For the 6102-100 ‘E’ Remote Enable with Duress module, the remote signal connections are indicated on the module label.



## Model 6102-090 Duress Module and Model 6102-100 Remote Enable with Duress Module Installation and Operating Instructions

### Connection Diagram . . .



### Module Operation . . .

After installation of the Duress (6102-090) or Remote Enable with Duress (6102-100) module, the lock must be programmed to enable the Duress function (see lock programming instruction document). **The lock should only be programmed for duress function if connected to an active, monitored central alarm system via the duress module.**

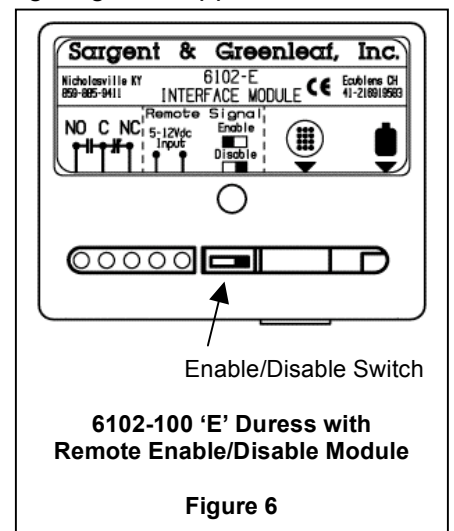
The remote enable feature of the Remote Enable with Duress module comes from the factory in the remote disable mode, (i.e. the lock will operate until a disable voltage signal is applied to module terminals 4 and 5). The module may be changed to the remote enable function, (i.e. the lock will not operate until an enable voltage signal is applied to module terminals 4 and 5), by changing the enable/disable switch from “Disable” to “Enable.”

#### Step 1

Remove power from the lock/module and use the tip of a ballpoint pen to push down on the Enable/Disable rocker switch to change from the factory set “Disable” to the “Enable” position as indicated on the Module label (see Figure 6).

#### Step 2

Verify proper operation of the lock/module installation a minimum of three times prior to closing the safe door. The lock must operate properly when the enable voltage signal is present on module terminals 4 and 5.



# Model 6102-090 Duress Module and Model 6102-100 Remote Enable with Duress Module Installation and Operating Instructions

## Specifications . . .

### Duress contact operation:

The duress (silent alarm) relay operation is a momentary contact change of state. One contact is normally open and one is normally closed with a common terminal provided (Form C). The relay contacts change state one second after input of a duress code into the lock and will change back to their original state after two seconds.

### Duress contact ratings:

Contact Rating: 1A @ 24VDC (resistive)  
Expected Life: >>100,000 cycles at rated load  
Maximum Switching Voltage: 150VDC or 125VAC  
Minimum Switching Capability: Dry circuit

### Remote Enable signal requirements (for 6102-100 'E'):

Input Signal Voltage Rating: 5VDC - 15% to 12VDC + 15%  
Current Requirements: 2.5mA typical @ 5VDC  
6mA typical @ 12VDC

