

Compact Forensic DNA Actuator

Overview

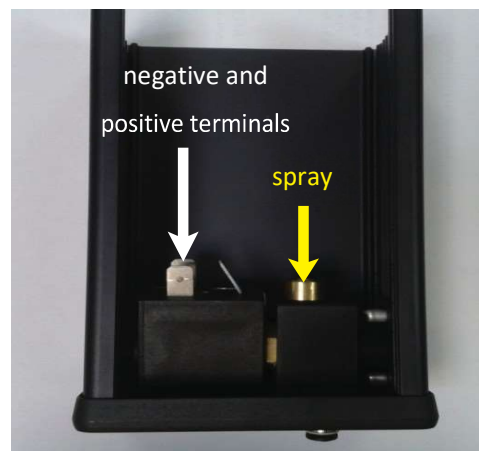
The Compact Forensic DNA Actuator is a high-pressure canister holder/actuator that, when activated, sprays an Offender with DNA. It is activated via an external trigger (panic alarm, break glass sensor, tremor or tamper switch).

There are two system options available:

1. Internal solenoid – deployed where there is sufficient space at the nozzle
2. External solenoid – deployed where operational space is restricted at the nozzle

Instructions

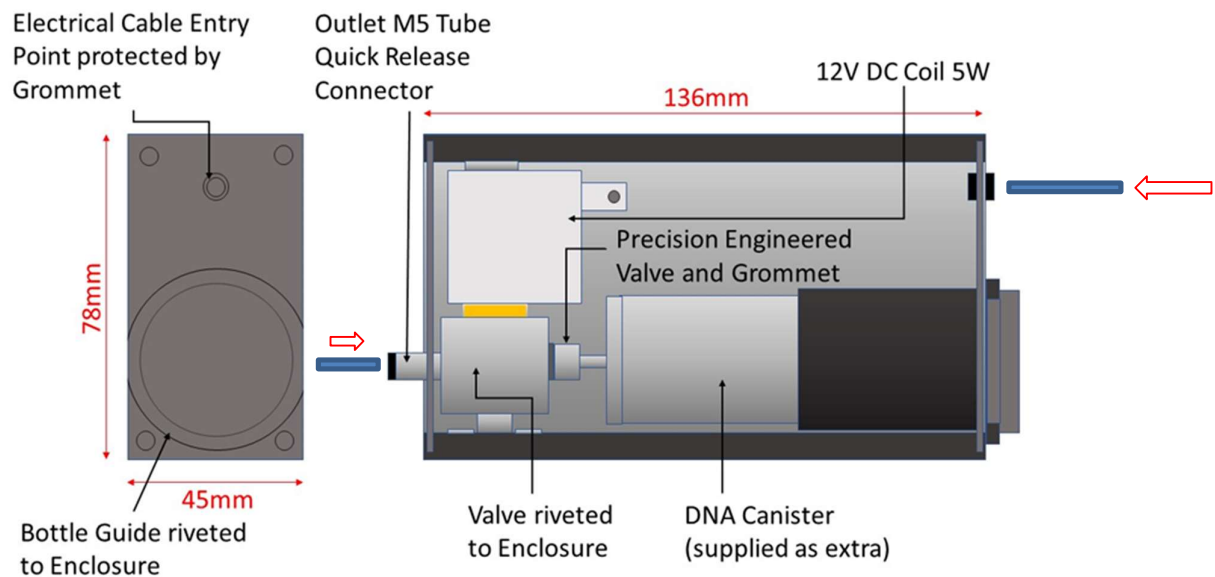
1. How to use the Compact Forensic DNA Actuator (Internal Solenoid)



To deploy the Actuator, unscrew the top plug. You will find a metal spacer disc in the original packaging. Attach this spacer on to the plug. Place the DNA canister into

the Actuator, through the hole, with the nozzle pointing downwards. Once this is in place, firmly re-screw the plug back into the Actuator until completely secure. Connect the Actuator to a power supply (connect the power supply to the Negative and Positive terminals)

General arrangement layout Internal Solenoid Version



When the Actuator is activated (by an intruder) a 12-volt current will run through the Actuator, activating the pressure canister, spraying the intruder. Capillary tubing options are available with various nozzles.

2. How to use the Compact Forensic DNA Actuator (External Solenoid)



Remove the front cover from Actuator box 2 and connect the capillary tubing to the snap fixing (Tube Fixing 1). Secure the other end of the capillary tube to Tube Fixing 2.

Connect the Actuator to a power supply by feeding the cable through the 'grommited' hole on the right hand top face of Actuator box 2. Connect the power supply to the Negative and Positive terminals. Do not switch to 'ON'.

To insert the DNA canister, unscrew the top of Actuator box1, and take out the plug. You will find a metal spacer disc in the original packaging. Attach this Spacer on to the plug. Place the DNA canister into the Actuator, through the hole, with the nozzle pointing downwards. Once this is in place, firmly re-screw the plug back into the Actuator until completely secure. This will activate the canister and the DNA Marker fluid will try to fill the pressurized capillary tubing. Carefully apply Power to the solenoid for a fraction of a second making sure to cover the Spray nozzle with a cloth to avoid DNA Spray contamination. The DNA Spray will be



Compact Forensic DNA Actuator

emitted from the Spray nozzle.

Immediately switch the Power to 'OFF'. This will 'close the system'. The Actuator unit is now 'primed' and ready for connecting to a 'trigger'. When the Actuator is activated (by an intruder) a 12-volt current runs through the Actuator, activating the pressure canister, spraying the intruder. Capillary tubing options are available with various nozzles.



Compact Forensic DNA Actuator