

ENFORCER[®]

ST-BL01Q

High-Speed Latching Continuity Tester

Manual



100 μ s
Sensitivity

LED
Light

Continuity
Test with
LED
and/or
Beeper

LIVE
CIRCUITS

Features:

- Test N.O. and N.C. circuits
- Verify circuit continuity via:
 - Beeper
 - Visual
- Built-in LED light
- Three test modes:
 - Real-time
 - Auto-reset
 - Latch mode
- Internal battery included

SLI[®] SECO-LARM[®]

Note: Products with model numbers that end with "Q" or that have a round green "Q" sticker are RoHS compliant.

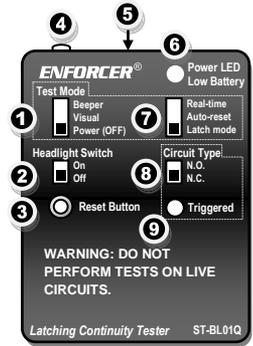


Introduction:

The ENFORCER ST-BL01Q High-Speed Latching Continuity Tester allows testing of continuity over durations as low as 100µs. Excellent for troubleshooting sensitive security systems, automotive electrical systems, and more.

Overview:

- 1** Indicator Switch
 - LED + Beeper
 - LED
 - OFF (Store in this position)
- 2** Headlight Switch
 - Turn LED light ON/OFF
- 3** Reset Button
 - Use to reset tester while in latch mode.
- 4** Headlight LED
- 5** Input Jack
 - Do not connect to a live circuit
- 6** Power Indicator LED
 - ON: Power on
 - Flashing: Low battery
- 7** Test Mode Switch
 - Real-time
 - Auto reset
 - Latch
- 8** Circuit Type
 - N.O. for Normally Open circuits
 - N.C. for Normally Closed circuits
- 9** Trigger LED
 - When lit, circuit is continuous



Specifications:

Response time	100µs
Continuity threshold	3kΩ
Power	9-Volt battery (included)
Weight	3.5-oz (99g) 5.1-oz (144g) including 9-Volt battery
Dimensions	4 ³ / ₁₆ "x3"x1 ¹ / ₁₆ " (105x75x27 mm)

IMPORTANT NOTES:

1. Do not perform tests on live or powered circuits. Performing tests on live or powered circuits will damage the tester.
2. Do not use the tester to test voltage. The tester can only test continuity.
3. Always turn the tester OFF after use to prevent draining the battery. (See 1 above)

Using the Tester:

Set Indication Type

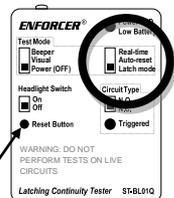
Beeper: When triggered, beeper will sound and Triggered LED will light.
Visual: When triggered, Triggered LED will light.
Power (OFF): Always turn tester OFF after use.



Set Test Mode

NOTE: Continuity must be detected for at least 100µs to trigger.

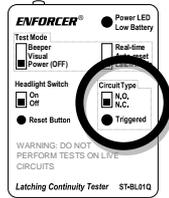
Real-time: Tester will indicate whenever it is triggered.
Auto reset: Tester will indicate continuously for 1 second after it is triggered.
Latch: Tester will indicate continuously after triggered, until reset button is pressed.



Set Circuit Type

N.O.: To make the tester trigger when the circuit is closed, select N.O. under Circuit Type.

N.C.: To make the tester trigger when the circuit is open, select N.C. under Circuit Type.

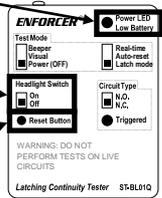


Usage Notes

Low Battery: Power LED will flash to show low battery.

LED Light: Use when working in low-light conditions.

Reset Button: Press before performing tests and after changing settings.



Performing Tests:

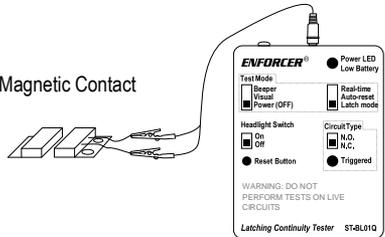
WARNINGS:

- Only test unpowered circuits.
- Never operate a vehicle or other machinery while using the tester. Set the tester to latch mode and check only after testing is completed.

1. Contacts

When experiencing trouble with a magnetic contact such as false alarms or intermittent operation, connect the tester at various points in the system using latch mode while attempting to reproduce failure conditions. This procedure will help identify the trouble component.

Magnetic Contact

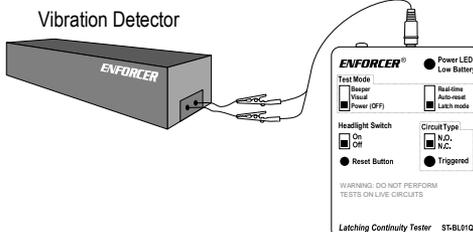


2. Vibration

Vehicle alarms, tamper switches and other devices and wiring that are exposed to frequent vibration or bending can begin to experience fatigue, causing micro-second open circuits. Connect the tester at various points in the system, and use the latch mode while operating the device.

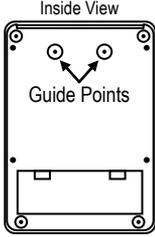
3. Shock/vibration sensors

The latching tester can simplify installation and calibration of shock and vibration sensors. When adjusting sensitivity, use the tester in place of alarm panel or other receiving device. When experiencing false alarms or false negatives, use the tester in latch mode at various points in the system to detect which component is over sensitive or responding too slowly.

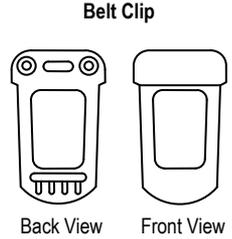
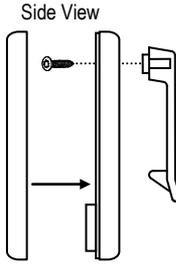


Installing Optional Belt Clip:

1. Open the case and remove the circuit board.
2. Drill two 1/4" holes at the guide points as shown.



3. Using the included screws, attach the belt clip.
4. Reclose the case.



Troubleshooting:

Continuity test yields false positive

- Press reset button.
- Check Circuit Type is correctly set.

Continuity test yields false negative

- Change the internal battery.
(Be sure to store tester in OFF mode.)

Internal battery depletes quickly

- Be sure to store tester in OFF mode.

Also Available from SECO-LARM:

12/24VDC Auto-Sensing Tester
ST-BT03Q



DC Plug to Terminal Block
CA-161T



Illuminated Power Connectors
CA-1610-3FLQ / CA-1510-3FLQ



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