



LSC-7D

Lightning Strike Counter

Installation Instruction



Lightning Protection

Part of THE ALLTEC PROTECTION PYRAMID®

LEVEL: Lightning Protection

FUNCTION: Monitoring Lightning Strikes assists in determining the need for additional security such as grounding, surge suppression and lightning protection.

BENEFITS:

No Maintenance: Requiring no external power supply or internal battery for operation.

Easy to Install: Uses a 2-wire connection to any metal conductor for lightning voltage detection, conductor dimensions are unimportant.

Easy to Monitor: Easily viewable from the front.

Weather Resistant: Includes a NEMA 4X/ IP66, UV stabilized polycarbonate enclosure with surface mount flanges, UL94V-0 flame rated and suitable for either indoor or outdoor installation.

Installation

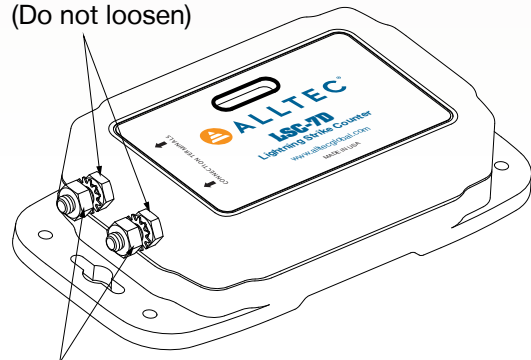
The LSC-7D connections should be electrically attached to the tower using 14 AWG (2.5mm²) insulated wire and be separated by approximately 8.0 ft (2.4m). The inductive voltage drop due to a lightning strike will actuate the counter. A log should be kept to record the date and counter reading. To test your counter, voltage may be momentarily applied using a 9V battery in either polarity to actuate the circuit. The LSC-7D requires a 0.5 μH inductance shunt (approximately 8.0 ft conductor length) to count nature's smallest lightning strike (3 kA). This inductance can be in the form of a wire length, tower, or pipe segment. To calculate, use the following approximations:

- 0.3 μH per foot per wire
- 0.067 μH per foot for triangular tower leg
- 0.150 μH per foot for >= 6" pipe

The LSC-7D connection must be in direct contact with the metallic wire or metallic structure being monitored. Clean, sand, or pierce as required.

NOTE: No user serviceable parts inside. Do not loosen sealing nuts.

Sealing nuts adjacent to enclosure
(Do not loosen)



Installation nuts & lock washers

Size

Width	Height	Depth
5.5 inch (139.7mm)	3.5 inch (88.9mm)	1.5 inch (38.1mm)

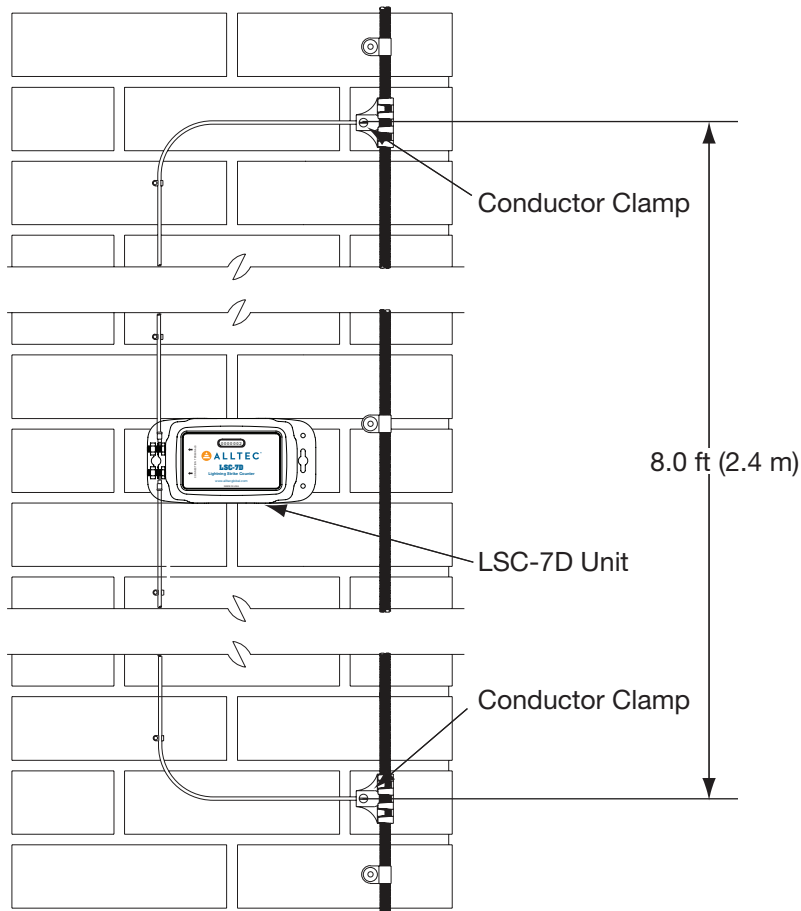
LSC-7D

Lightning Strike Counter

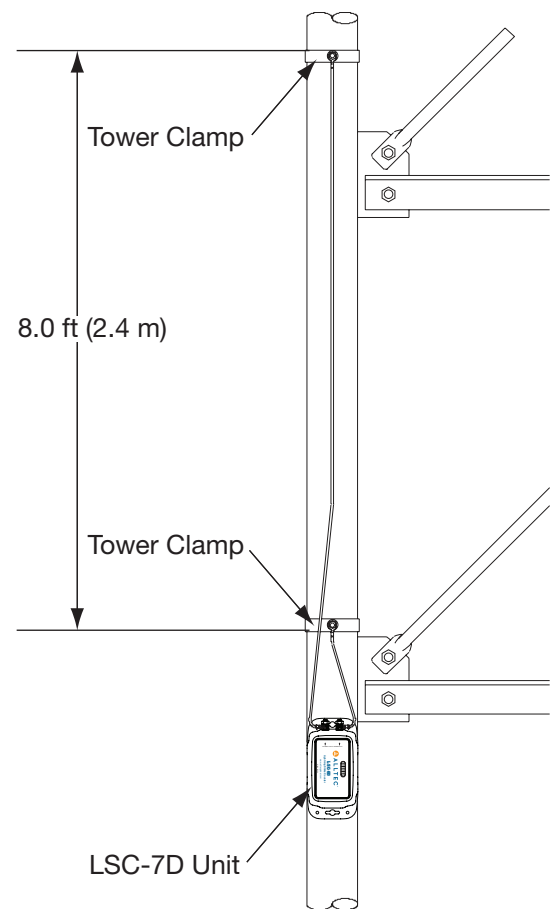
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Installation Examples

Building Model



Tower Model



WORLD HEADQUARTERS

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