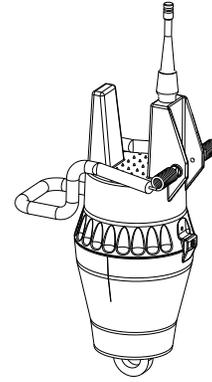




WSO-10 Installation Instructions

Before installation of fault indicators and sensors please read and understand all instructions in their entirety.
For assistance please contact Customer Service at: 1-847-362-8304 or by e-mail at: info@selinc.com

Caution! Install fault indicators and sensors in accordance with normal safe operating procedures. These instructions are not intended to replace or supersede existing safety or operating requirements.
Only trained qualified personnel should install or operate fault indicators and sensors.



The WSO is a wireless sensor with auto-ranging fault detection capabilities. The wireless sensor provides local fault indication with a bowtie shaped mechanical “target” on the bottom of the unit. It is also equipped with a radio that operates on a Landys+Gyr Wireless network. The sensor collects data and transmits data packets over the network. The auto-ranging design allows the wireless sensor to adjust its fault detection trigger point based on the steady-state load, handling all ranges of fault current.

Please keep permanent magnets away from WSO units, except when performing “Radio Activation”.

Caution:

Do not handle WSO by the antenna. Additionally, do not attempt to loosen/replace the WSO antenna.
Please keep WSO-10 unit away from permanent magnets, except for the CRSRTT test tool when used as directed below.

CAUTION!
Do not perform Radio Activation while the WSO is installed on an energized line!

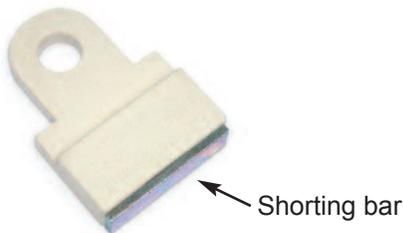
Radio Activation

Activate the WSO units with the following steps:

- Remove silver shorting bar from CRSRTT test tool (sold separately).
- Hold the CRSRTT parallel with and covering the “ACTIVATE” label for a minimum of 15 seconds.
- Upon removal of the CRSRTT tool, the unit will change the state of the target display indicating proper application of the magnet tool. Replace silver shorting bar on CRSRTT tool for storage.
After application and removal of the magnet tool in Step 1b, a tripped target (red target visible) indicates the radio has been activated.*
- Install the WSO on 4.17kV - 34kV circuits following the procedure described on the following page.
- After 5 minutes, the unit will reset and the red target will disappear indicating the sensor is ready to detect faults.

* The radio can also be deactivated by using the test tool as described in Steps 1a and 1b. The WSO can be activated or deactivated with the target in either the tripped (red target visible) or reset (red target not visible) position. The final state of the target, 5 seconds after removal of the magnet tool, indicates the state of the radio. A final target state of tripped indicates the radio is active, while a reset state indicates the radio is deactivated. The target may change state twice (if necessary) to indicate proper application of the magnet tool and the state of the radio.

CRSRTT Test Tool

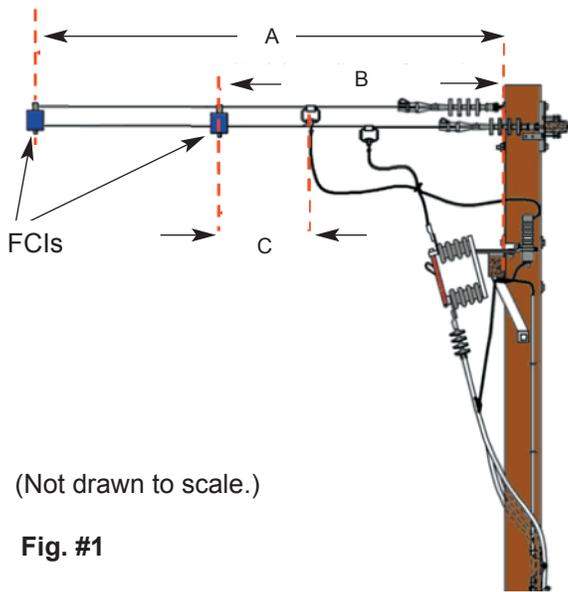


NOTE: The CRSRTT tool is used to activate and deactivate the radio for wireless communication in WSO fault indicators. Before using the CRSRTT tool remove the protective shorting bar. Replace the shorting bar after use. Order Cat. No.: **CRSRTT**.





WSO-10 Installation Instructions



To ensure optimum FCI function, it is recommended that FCI distance to pole information be followed as shown in Fig. #1.

Reference "A": Maximum recommended distance from pole of 6'-0"

Reference "B": Minimum distance from pole of 3'-0"

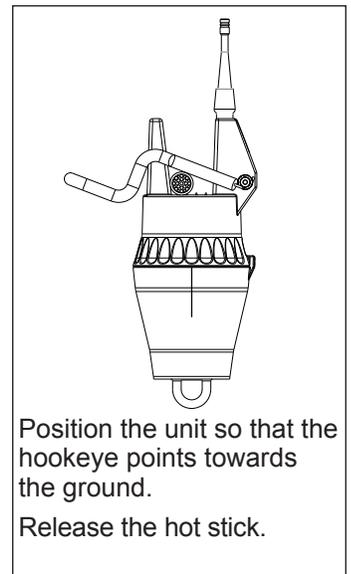
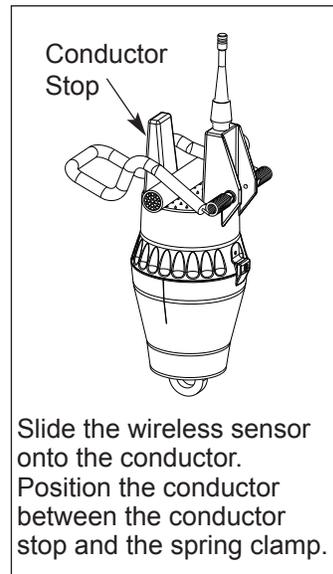
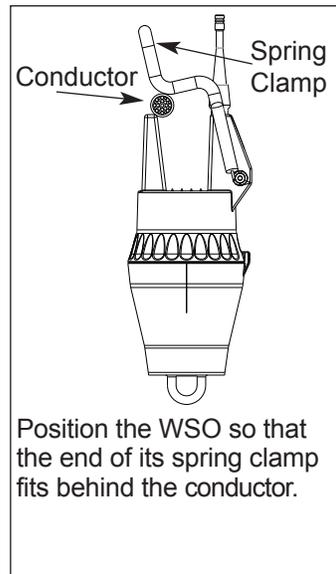
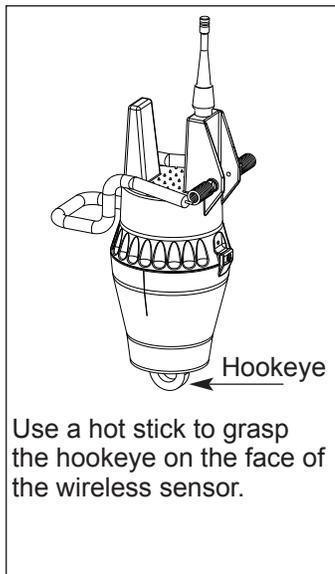
Reference "C": Minimum distance from energized hardware of 2'-0"

(Not drawn to scale.)

Fig. #1

Install WSO

Product is intended for use on overhead conductors having a minimum continuous load current of \geq 5 amperes RMS, when installed on conductors having 0.162" through 0.750" outer diameters.



Regulatory Compliance

The radio module has been designed to meet the following standard: FCC - CFR Part 15.247-Radio Frequency Devices, Subparts A-General and B-Unintentional Radiators (testing is done at a module level for Modular Approval.)

FCC ID: R7PNG0R1S1

IC: 5294A-NG0R1S1

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) This device must accept any interference received, including interference that may cause undesired operation.

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