SW Series
RF Safety Switches

A “Lock out/Tag out” Device

ERI’s 3-1/8-inch and 6-1/8-inch coaxial safety switches address the requirement of OSHA Regulation 1910.147 which outlines “lock out/tag out” requirement for RF transmission systems to protect workers from accidental exposure or electrical trauma when maintaining towers and antenna systems. When installed in a coaxial transmission line the ERI safety switch interrupts the flow of RF energy. The 3-1/8-inch model accomplishes this by creating an intentional short circuit between the inner and outer conductor of the transmission line. The 6-1/8-inch switches interrupt the RF energy by creating an open circuit in the inner conductor. In the open or closed position, the switches will accept the full power rating of the coaxial line size.

Features
- Low VSWR.
- Fast mechanical operation.
- Can be installed in tightly spaced coaxial runs.
- Large visual decals illustrate switch positions.
- Activation lever can be padlocked or tagged in engaged or disengaged positions.
- Internal sensing switch for remote signaling and/or transmitter interlock control.

Specifications

<table>
<thead>
<tr>
<th>RF Connections:</th>
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<tr>
<td>SW3004</td>
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<tr>
<td>SW6001</td>
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<tr>
<td>Impedance:</td>
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<tr>
<td>Frequency Range</td>
</tr>
<tr>
<td>Insertion Loss (Disengaged)</td>
</tr>
<tr>
<td>VSWR (Disengaged)</td>
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<tr>
<td>VSWR (Engaged)</td>
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<tr>
<td>Power Rating:</td>
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<tr>
<td>SW3004:</td>
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<td>SW6001 and SW6002:</td>
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Ordering Information

<table>
<thead>
<tr>
<th>Type Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>SW3004</td>
<td>VHF RF Safety Switch feature lockout/tag out protection features. 3-1/8-inch EIA. Fixed flange input, swivel flange output.</td>
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<tr>
<td>SW6001</td>
<td>VHF RF Safety Switch feature lockout/tag out protection features. 6-1/8-inch, 50 ohm, EIA. Flanged connections, packaged as an equal leg 90 degree elbow. 9-inch length from flange to center conductor, can be pressurized.</td>
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</tbody>
</table>
About Electronics Research, Inc.

Founded in 1943, Electronics Research, Inc. delivers high quality, innovative, integrated solutions to broadcasters across the U.S. and around the world. Our dedicated staff of engineers, designers, fabricators, and project managers take pride in contributing to your success by providing AM, FM, VHF, UHF, BRS-EBS, and Mobile Media broadcast systems including the industry’s best antenna, transmission line, filter and combining, and tower and structural support systems. In addition to manufacturing the full range of broadcast system components and installation accessories, ERI offers all of the engineering and field services needed to plan, install, optimize, and maintain your broadcast facility. We are your single source for broadcast solutions.

Broadcast Antenna Systems
- ROTOTILLER® FM Radio Antenna
- LYNX™ Dual Input for IBOC FM Radio Antenna
- 1105 Circularly Polarized FM Radio Antenna
- 100 Low Power Circularly Polarized FM Radio Antenna
- FM Low Power Horizontally Polarized Educational FM Radio Antenna
- P300/P350 Series Vertically Polarized FM Radio Antenna
- 1180 and 1090 Series Broadband Panel FM Radio Antenna
- SLIMWING™ Batwing VHF Television Antenna
- CRUCIS™ Crossed Dipole VHF Television Antenna
- STINGRAY™ Broadband Panel VHF Television Antenna
- TRASAR® High Power Traveling Wave Television Antenna
- AGW Guided Wave Quick-Deploy Emergency UHF Television Antenna
- STINGRAY™ Broadband Panel UHF Television Antenna
- ALP Low and Medium Power UHF Television Antenna
- AL PLUS Low and Medium Power UHF Television Antenna
- AL8 Low Power UHF Television Antenna
- VELA™ Low Power Vertically Polarized Broadband UHF Television Antenna
- HMD BRS-EBS Antenna
- SHADOWMASTER® Shadow-Filling BRS-EBS Antenna

Transmission Line Systems
- MACXLine® Rigid Transmission Line with Bellows
- HELIAX® Air- and Foam-dielectric Coaxial Cable
- HELIAX® Standard Elliptical Waveguide
- GUIDELine® Circular Waveguide
- Standard Rectangular Waveguide
- Dehydrators and Pressurization Equipment

Filter and Combining Systems
- FM Radio Filter and Combining Systems
- UHF and VHF Television Filter and Combining Systems
- DAB Filter and Combining Systems
- Mobile Media Filter and Combining Systems
- RF Components
- System Monitoring and Protection Components

Structural Support Systems
- Guyed Towers
- Self-Supporting Towers
- Roof-top Antenna Support Structures
- Specialty Structures and Custom Antenna Supports

RF and Structural System Services
- RF Field and Engineering Services
- Installation and Structural Engineering Services