



E-SWITCH®

Switches for the Audio/Visual Market

Product Training Module



Service ♦ Selection ♦ Speed



Introduction

Purpose

- Introduce designers, engineers and customers to E-Switch's most frequently used switches suitable for audio/visual applications.

Objective

- Provide overview of audio/visual devices and equipment in which electro-mechanical switches are used.
- Provide features and advantages of switch series.
- Review top selling switch series used in various audio/visual applications.

Content

- 14 pages

Overview

Types of Audio/Visual Equipment That Use Electro-mechanical Switches

- Sound Components
- Visual Components
- Screen Projectors
- Computer Desktops
- Laptop Computers
- Video and Audio Conference Equipment
- Flat and Curve Screen Monitors
- Recording Equipment
- Amplifiers
- Training Simulators
- Security Camera & Control Panels



Frequently Requested Switches for Audio/Visual Solutions

Switches frequently used for audio/visual applications, but are not limited to, are as follows:

- Pushbutton
- Rocker
- Tact



Pushbutton Features and Advantages

Pushbutton Switches

- Momentary or latching operation
- Offers termination options such as right angle, PCB pin and solder lug
- Wide range of cut-out panel sizes from 4.5mm to 30.5mm in diameter
- Non-illuminated and illuminated options in many color choices for design and function flexibility
- Large variety of cap styles available
- Many pushbuttons are IP certified
- RoHS compliant



Illuminated Pushbutton Switch Applications

Applications

- Audio Board Controls
- Broadcasting Control Suites
- Mixing Boards
- Equipment On/Off Switch
- Gaming Control Panels
- Head Phones
- Answering Machine Indicator
- Sound & Lighting Controls



D16



L16



LA



LP1



LP11



LP15



LP16



LP2



LP4



LP6



P16



PA4



PB1973



PR1



RP3508



ULP



WBL

Non-Illuminated Pushbutton Switch Applications

Applications

- Foot Switch Control
- Equipment On/Off Switch
- Training Simulator Equipment
- Intercom Devices
- Security Camera Systems



700



700A



800A



800C



FS5700



PBH



PB300



PV1



RP8600

Rocker Features and Advantages

Rocker Switches

- Offer several termination options such as solder lugs, PCB pins, screw terminals and quick connect tabs
- Available in many shapes, sizes and colors, plus the option of standard or custom symbols on the actuator
- Non-illuminated and illuminated options in many color choices for design and function flexibility
- RoHS compliant





Rocker Switch Applications

Applications

- Surge Protectors
- On/Off Switch on Equipment
- Computer Towers
- Printers and Copiers



R1966 R1973 R5 RA1



RB4 RBW2 RR3112 RR3402



RVW WB2

Tact Switch Features and Advantages

Tact Switches

- Offer several termination options such through hole, surface mount, right angle and dual stacked actuators
- Provide a range of profile heights from .55mm to 17.0mm
- Come in a wide range of sizes, from micro-miniature measurement of 3mm x 2mm to a large tactile surface of 12mm x 12mm
- Non-illuminated and illuminated options in many color choices for design and function flexibility
- Numerous tact switches offer multiple gram force options
- RoHS compliant





Tact Switch Applications

Applications

- Remote Control Devices
- Smart Phone/Music Playlist Devices
- Keyboards or Keypads
- Instruments or Interface Control Panels
- Audio Recording Equipment
- Sound Amplifiers



Resources

www.e-switch.com

The screenshot shows the website interface for www.e-switch.com. At the top, there is a browser tab labeled "Electronic Switches - Pus" and the URL "https://www.e-switch.com". Below the URL bar, there are four navigation links: "Contact Us", "Catalog Request", "Sample/Quote Request", and "Distributor Stock Check". The main header features the "E-SWITCH" logo, an "Extranet Login" button, and a search bar with the text "Part No, Drawing, Series" and a "GO" button. A horizontal navigation menu includes "Product Catalog", "Training", "Where to Buy", "Technical Information", "About E-Switch", and the phone number "800.867.2717". A purple arrow points to the "Product Catalog" menu, which has a dropdown menu with options: "Catalog by Type", "Catalog by Features", and "Cap Options". Below the navigation, there is a large advertisement for "Illuminated Slide Switch" with a list of unique features: "2.0mm travel", "Multiple LED colors", "Compact SMT design", "LED illuminated actuator", and "DPDT circuit with two positions". A "CLICK HERE For More Information!" button is also present. To the right of the advertisement, there are social media icons for Twitter, YouTube, LinkedIn, and Pinterest, along with a "3D Models" section containing a "Request 3D Model" button and a "Product Matrix" button.

Resources

www.e-switch.com

The image shows a screenshot of the E-Switch website's navigation bar and promotional banners. The navigation bar includes links for Contact Us, Catalog Request, Sample/Quote Request (circled in purple), and Distributor Stock Check. Below the navigation bar is the E-Switch logo, an Extranet Login link, and a search bar with the text "Part No, Drawing, Series" and a "GO" button. A horizontal menu contains links for Product Catalog, E-Cross™, Where to Buy, Technical Information, and About E-Switch. The phone number 800.867.2717 is displayed below the menu. The main content area features a large orange banner for "INTRODUCING... E-Switch Virtual Solutions" with a grid of product images and a "CLICK HERE to interact with our virtual solutions" call to action. To the right, there are two smaller banners: "3D Drawings" with a "Request 3D Drawings" button (circled in purple) and "Product Matrix" with a product image.

Contact Us Catalog Request **Sample/Quote Request** Distributor Stock Check

Extranet Login

E-SWITCH®

Search Part No, Drawing, Series **GO**

Product Catalog E-Cross™ Where to Buy Technical Information About E-Switch

800.867.2717

INTRODUCING... E-Switch Virtual Solutions

Our complete array of anti-vandal switches... at your fingertips!

CLICK HERE to interact with our virtual solutions

E-SWITCH®

3D Drawings


Request 3D Drawings

Product Matrix


Resources

Data Sheet

TL6100 SERIES TACT SWITCH



APPLICATIONS / MARKETS



RoHS

SPECIFICATIONS

Electrical Rating: 50mA @ 12VDC
 Life Expectancy: per chart
 Contact Resistance: 100mΩ Max. Initial
 Insulation Resistance: 100 MΩ Min. at 120VAC
 Dielectric Strength: 250VAC for 1 min.
 Operating Temperature: -40°C to 60°C
 Storage Temperature: -40°C to 85°C
 Operating Force: 130 gf, 160 gf, 300 gf, 500 gf
 Travel: 2.50mm
 Contact Arrangement: SPST

FEATURES & BENEFITS

- Tube packaging
- Multiple operating forces
- Gold or silver contact option
- Multiple actuator lengths
- Process sealed

PART NUMBER CONFIGURATOR

Series: TL6100

Actuator Options: A - 1.20mm, B - 1.20mm, C - 1.60mm, D - 1.60mm

Operating Force: F130 - 130 gf, F160 - 160 gf, F300 - 300 gf, F500 - 500 gf

Contact Plating: G - 80µm, N - 50µm

Termination: P - PCB Pads

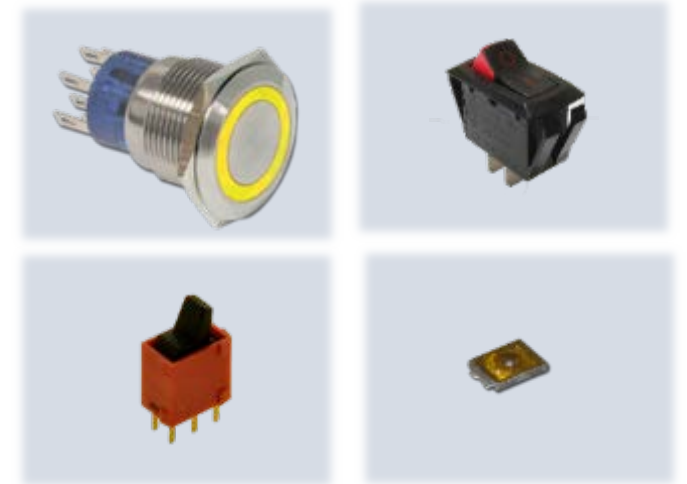
Actuation Force	Life Cycles
130 gf	1,000,000
160 gf	1,000,000
300 gf	500,000
500 gf	200,000

Specifications subject to change without notice

E-SWITCH www.e-switch.com 800.967.2117

Switch Samples

3D Models .jpg





Summary

- In summary, E-Switch provided an overview of audio/visual solutions and switch series which are suitable for common audio/visual applications.
- E-Switch provided features and advantages for switches that are in high demand for audio/visual applications. The most popular switch categories include pushbutton, rocker and tactile.
- Pushbutton features offer several termination options, various cut-out panel sizes from 4.5mm to 30.5mm in diameter and provide non-illuminated and illuminated options in many color choices.
- Rocker switches feature several termination options, offer many shapes, sizes and colors, plus the option of standard or custom symbols on the actuator and non-illuminated and illuminated options in many color choices.
- The advantages of tact switches include several termination options, provide a range of profile heights from .55mm to 17.0mm, come in a wide range of sizes and are available non-illuminated and illuminated with many color choices.
- Besides the switches shown in the product training module, E-Switch offers many more electro-mechanical switches that will meet the necessary requirements.