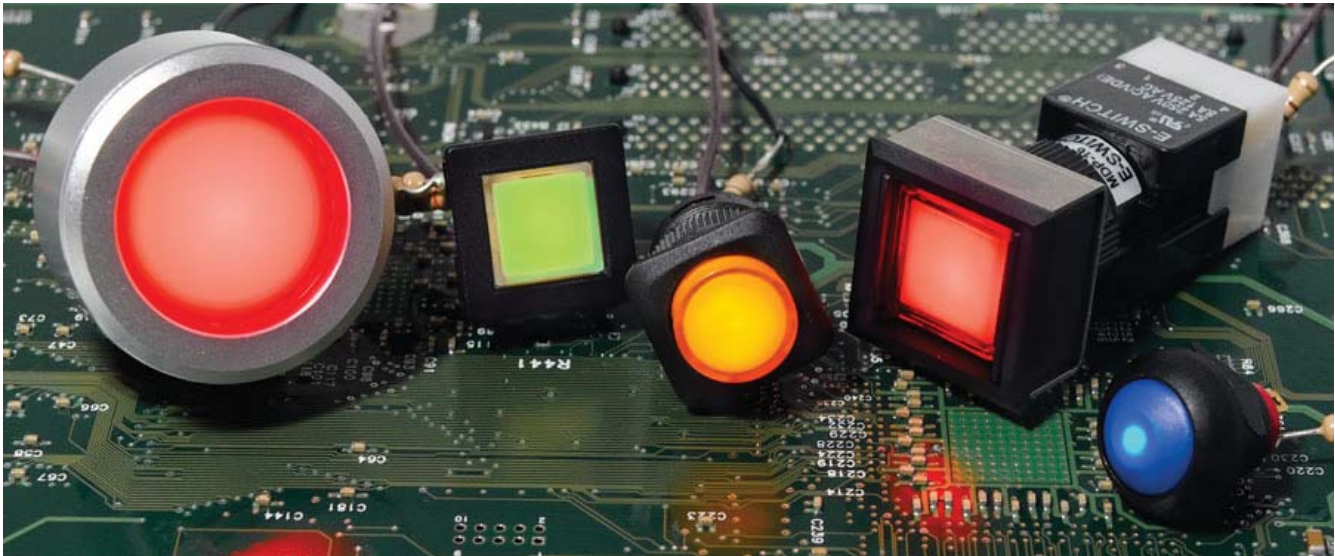


E-SWITCH®



Little Details. Big Quality.

Machine Design, February 2008

Switch caps

Five new caps are available for the ULP Series of illuminated pushbutton switches: flat square and flat rectangular, large sculptured and square sculptured, and a panel-mount style. Two LEDs per switch in blue, green, or red are available. The switches come in SPDT and DPDT versions and can be purchased as momentary or latching.



Additional features include 200,000 life cycles in both silver and gold; 1,000,000 mechanical life cycles. gold contact rating of 0.4 VA max @ 28 Vdc or Vac max; silver contact rating of 0.5 A @ 25 Vac or 0.2 A @ 250 Vac; 50-mΩ silver and 100-mΩ gold contact resistance (initial max); 100 MΩ (min # 500 Vdc) insulation resistance; dielectric strength of 1,000 Vac for 60 sec; and operation at -20 to 70°C.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com

Machine Design, March 2008

Pushbutton switches

The MDP-15 Series of illuminated pushbutton switches have a modular design and come in low or high bezel, flush-mount, or full-guard actuator styles in six colors.



Specifications include 6,000-cycle electrical life (both silver and gold); 50,000-cycle mechanical life; contact rating of 5 A, 250 Vac; 8 A, 125-Vac UL and VDE; 100-mΩ contact resistance (initial maximum); 50 MΩ insulation resistance (minimum @ 100 V); and 2,000-Vdc dielectric strength. The switches operate at -25 to 55°C.

E-Switch, 7153 Northland Dr., Minneapolis, MN 55428, (800) 867-2717, e-switch.com

Circle 477

EPN, March 2008

SMT Tactile Switch

comes in subminiature format

E-Switch has released the TL3340 series of compact tact switches. These subminiature (4x3.30mm) SMT devices feature a high-reliability dome technology and a strong tactile force. Offered with silver plating and gull-wing termination, they have a mechanical life of over 100,000 cycles. Contact rating is 12VDC at 50mA, and insulation resistance is 100MΩ at 100V. The device has a dielectric strength of -500VDC and an operating temperature of between -35 and + 85°C. Applications likely to make use of this device include telecommunications, consumer electronics, audio/visual, medical equipment, computers, and servers.



E-SWITCH
enter 27857 @ www.epn-online.com

ECN, August 2008

Switch Allows Soft-Touch Actuation



With a long travel of 1.5 mm and a carbon pill contact design, the TL9000 soft touch tactile switch from E-Switch is made of conductive rubber.

Features include minimum electrical life of 100,000, 150 ±50 gram operating force, a contact rating of 50 mA at 12 VDC, and initial contact resistance of 100 mΩ max. The switch has minimum insulation resistance of 100 MΩ, dielectric strength of 250 VAC and an operating temperature from -20°C to 70°C.

E-Switch
800-867-2717, www.e-switch.com

EDS, March 2008

E-Switch's new round illuminated pushbutton switch has a classy, sleek design and extended operating life

E-Switch announces a new, sleek, round illuminated pushbutton switch, the RP8100. The RP8100 is available with either a threaded or snap in panel mount. It is sealed to IP65 standards and comes with an LED illumination option. Specifications include:

- Electrical Life – 500,000 cycles at full load
- Operating Force – 300 gf +/- 100gf
- Contact Rating – 125mA @ 125 VAC; 100mA @ 50 VDC
- Contact Resistance – 5 milliohms max (initial)
- Insulation Resistance – 1,000 Megaohms (Min @ 500VDC)
- Dielectric Strength – 1,000 VAC rms.
- Operating Temperature – minus 30C to + 85C
- Contact Bounce – 10ms MAX

Markets for the RP8100 series switch include instrumentation, telecommunications, audio, appliance, consumer electronics, among others.

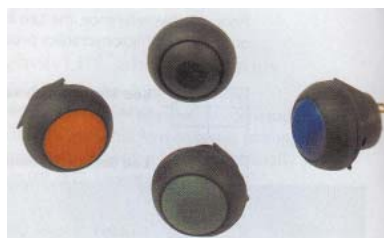
Visit E-Switch at www.e-switch.com or call us at 800-867-2717 to request your free catalog! You can also request a free sample of one of 4,000 discrete part numbers for one of your projects! Little Details. Big Quality.

E-Switch has been manufacturing quality switches since 1979 for the electronics, telecom, high tech, instrumentation, A/V, appliance and consumer markets. Located in Brooklyn Park, Minnesota, their global reach extends to Europe, Asia and Latin America. Products include



Rocker, Toggle, Slide, Tact, Pushbutton, Dip, Rotary, Keylock, Snap Action, Detector switches, and more. E-Switch has local reps and distributors on hand to provide specifying assistance and quick response to requests, along with a top notch sampling and cross-referencing program. E-Switch's online catalog includes complete specifications, drawings and schematics.

PDD, March 2008



An Aesthetic Pushbutton Switch

E-Switch recently announced the availability of their sleek, round RP8100 illuminated pushbutton switch with either a threaded or snap-in panel mount. Switch specifications include:

- An electrical life of 500,000 cycles at full load.
- An operating force of 300 GF ±100 GF.
- A contact rating of 125 mA at 125 VAC or 100 mA at 50 VDC.
- An initial contact resistance of 5 milliohms maximum.
- An insulation resistance of 1,000 Megaohms minimum at 500 VDC.
- A dielectric strength of 1,000 VAC rms.
- An operating temperature of -30° to 85°C.
- A contact bounce of 10 ms maximum.
- Sealing to IP65 standards.
- An LED illumination option.

info@e-switch.com
www.e-switch.com

MD&DI, March 2008

Navigation Switch

A five-position navigation switch is suitable for handheld devices, portable ultrasound, and medical pumps. The JS1200 can also be used with electronics that require multiposition switching functionality. Available with or



without mounting bosses, the joystick switch has a contact rating of 20 mA at 12 V dc. Its dielectric strength is 100 V ac. Operating temperatures range from -25° to 70°C. **E-Switch Inc.**, Minneapolis, MN, 800/867-2717.

www.e-switch.com

ECN, November 2008



E-Switch

Enduring an electrical life of 25,000 cycles, E-Switch's TL1290 Series right-angle tact switches with through-hole termination and gold-plated contacts offer LEDs in blue, red, yellow and green. They exhibit a contact rating of 100 mA at 32 V DC, initial contact resistance of 250 mΩ maximum and minimum insulation resistance of 100 MΩ at 500 V DC.

TL1290
Right angle tact switch with LED

Contact: 100 mA at 32 V DC

25,000 cycles

250 V AC

250 mΩ (initial max.)

>100 MΩ (min. at 500 V DC)

- Force: 500 ± 125 gF
- Travel: 1.0 ± 0.2 mm to Electrical make; 2.0 ± 0.2 mm Full travel

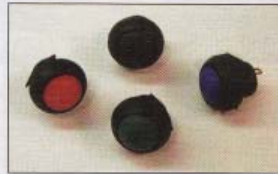
-20°C to 70°C

- Right angle, through hole termination
- Multiple LED color options
- Gold plated contacts for reliability
- Sharp, tactile response

\$2.00 to \$2.25 depending on features and a 2,500 quantity

NED, March 2008

Illuminated Pushbutton Switch distinct style, extended electrical life



Sleek, round, illuminated pushbutton switch offers a 500,000-cycle electrical life, IP65 sealing, and threaded or snap-in mounting styles. Operating force of the Model RP8100 is 300 gf, ±100 gf. Contact rating is 125 ma at 125 v ac ad 100 ma at 50 v dc.

E-Switch, Inc., Minneapolis, MN (800) 867-2717
▲ Circle 249 on card or visit www.nedinfo.ims.ca/7404-249

EPT, March 2008

Modular pushbuttons include low or high actuator

MDP-16 series modular illuminated pushbutton switches provide choice of many illumination options, low or high bezel actuator, flush mount or full guard, and six actuator colors. All are rated for 5A at 250Vac and 8A at 125Vac, 6,000 cycle electrical life, 50,000 cycle mechanical life, 2,000Vdc dielectric strength and -25 to +55C operating temperature.

E-SWITCH

<http://ept.hotims.com/16414-230>



EMDM, March 2008

Joystick switch

A navigation switch with multidirectional functionality is suitable for inclusion in handheld instruments and



medical devices. The five-position JS1200 joystick switch can come with or without mounting bosses and is designed for surface-mount applications that require navigation. Offering a life

expectancy of 200,000 actuations in any direction, the switch has a contact rating of 20 mA at 12 V dc, insulation resistance of 100 MΩ, dielectric strength of 100 V ac, and operating-temperature range of -25° to 70°C. Its push travel is 0.15 ± 0.01 mm and tilt travel is 0.20 ± 0.01 mm.

E-Switch Inc.
Minneapolis, MN, USA
www.e-switch.com

Electronic Products, February 2008

Tiny tact switch sports single or dual LEDs



Measuring 4.5 x 6.8 x 2 mm, the TL3200 tact switch features dual LEDs with single or dual color options in red, green, or yellow. Contact rating is 50 mA at 12 Vdc, contact resistance is 500 mΩ, insulation resistance is 100 MΩ min, and dielectric strength is 250 Vac.

Operating temperature is from -25° to 85°C, and travel is 0.25 mm. Markets include telecommunications, consumer electronics, audio/visual, medical, testing/instrumentation, and computers/servers/peripherals. (Contact Rebecca Hauptman for pricing—9 weeks ARO.)

E-Switch, Brooklyn Park, MN
Rebecca Hauptman 763-504-3536
rhauptman@e-switch.com
<http://www.e-switch.com>

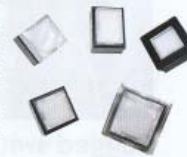
EPT, March 2008

Pushbutton caps integrate one or two LEDs

Cap options for ULP series illuminated pushbutton switches now includes flat square, flat rectangular, large sculptured, square sculptured, and panel mount styles with up to two LEDs per switch in blue, green or red. Switch line includes SPDT and DPDT, momentary or latching versions with silver contacts rated 0.5A at 25Vac, 0.2A at 250Vac or gold contacts rated 0.4VA at 28V ac or dc. They have 200,000 cycle electrical life and -20 to +70C operating temperature.

E-SWITCH

<http://ept.hotims.com/16414-208>



CCJ, March 2008



Illuminated pushbutton switches

E-Switch says its modular MDP-16 series of illuminated pushbutton switches feature an attractive front panel and many illumination options. Actuator styles for the modular interface design include a low or high bezel, and a flush-mount or full-guard option; six actuator colors are available. The robust switch is suited for transportation equipment, industrial control applications and telecommunications.

E-Switch
www.e-switch.com

NED, October 2008



Switch Offers Multiple LED Options

Illuminated tactile switch features through-hole termination and LED color offerings of blue, red, green, and yellow. The TL 1290 also boasts a sharp, tactile response and a long travel.

E-Switch, Inc.,
Minneapolis, MN (800) 867-2717
▲ Circle 13 on card or visit www.nedinfo.ims.ca/7560-13

NED, January 2008



Latest Illuminated Pushbutton Options

Cap options for the ULP Series illuminated pushbutton switch include flat square and flat rectangular styles, large sculptured and square sculptured styles, and a panel mount style.

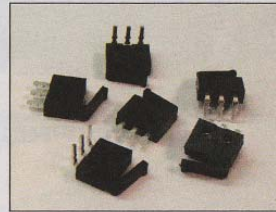
E-Switch, Inc.,

Minneapolis, MN (800) 867-2717

▲ Circle 120 on card or visit www.nedinfo.ims.ca/7401-120

NED, June 2008

Sub-Mini Snap-Action Switch versatile pin termination options



TS Series sub-miniature snap-action switch has a vertical PC pin termination, and both right and left angle PC pin termination with either long or short terminals. In addition to versatile termination options, the switch features typical electrical and mechanical life of 50,000 and 100,000 cycles, respectively, and contact rating of 0.3 amp at 6 v dc.

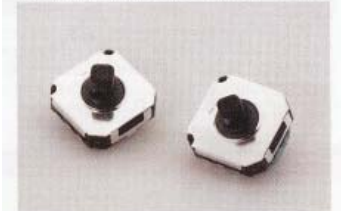
E-Switch, Inc., Minneapolis, MN (800) 867-2717

▲ Circle 266 on card or visit www.nedinfo.ims.ca/7408-266

MPMN, January 2008

Joystick Switch

A navigation switch with multidirectional functionality is suitable for incorporation into handheld instruments and medical devices. The five-position JS1200 joystick switch comes with or without



mounting bosses and is designed for surface-mount applications that require navigation. Offering a life expectancy of 200,000 actuations in any direction, the switch has a contact rating of 20 mA at 12 V dc, insulation resistance of 100 M Ω , dielectric strength of 100 V ac, and operating-temperature range of -25° to 70°C. Its push travel is 0.15 \pm 0.01 mm and tilt travel is 0.20 \pm 0.01 mm.

E-Switch Inc.
MINNEAPOLIS
www.e-switch.com

Design World, February 2008

Modular switches

The MDP-16 Series of illuminated pushbutton switches have an electrical life of 6,000 cycles and a mechanical life of 50,000 cycles (typical). Contact rating is 5 A at 250 Vac, and 8 A at 125 Vac. Operating temperature is from -25 to 55 C.



Actuator styles include a low or high bezel, a flush mount or full guard option, as well as six color choices.

E-Switch, Inc.

www.e-switch.com

NED, February 2008

Illuminated Pushbuttons modular design yields choices



MDP-16 illuminated pushbutton switches have a modular interface design with an attractive front panel and many illumination options. Actuator styles include a low or high bezel, and a flush-mount or full-guard option. Electrical life is rated 6,000 cycles (silver or gold); mechanical life is typically 50,000 cycles. Contact rating is 5 amp, 250 v ac and 8 amp, 125 v ac.

E-Switch, Inc., Minneapolis, MN (800) 867-2717

▲ Circle 250 on card or visit www.nedinfo.ims.ca/7402-250

IEN, July 2008

Switches

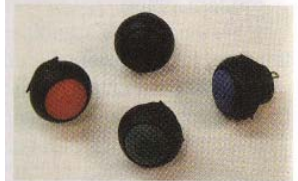


FREE Product Catalog PC318 describes rocker, toggle, slide, tactile, illuminated pushbutton, dip, rotary, keylock, sub-miniature snap-action, detector switches, and more. **E-Switch Inc;** 800-867-2717

www.ieninfo.com/11203-211
or circle 211 on card

IEN, April 2008

Illuminated Switch has IP65 sealed design.



Available in threaded or snap-in panel-mount configurations, pushbutton Series RP8100 offers contact ratings of 125 mA at 125 Vac and 100 mA at 50 Vdc. Initial contact resistance is 5 m Ω , insulation resistance is 1,000 M Ω at 500 Vdc, and dielectric strength is 1,000 Vac rms. Round switch operates from -30 to +85°C. **E-Switch Inc;** (800) 867-2717; Tech Contact: Larry Ness

www.ieninfo.com/11200-159
or circle 159 on card

MD&DI, May 2008

Tactile Switch

A right-angle, sealed, tactile switch featuring reliable dome technology and a strong tactile force can be used in medical equipment. The TL6190 has multiple operating forces and a life expectancy of 100,000 cycles. The process-sealed switch comes with a silicone rubber actuator. Specifications include a contact rating of 50 mA

at 12 V dc, an operating force of 220 \pm 60 gf, and an initial contact resistance of 100 m Ω maximum. The switch also features insulation resistance of 100 M Ω , dielectric strength up to 500 V dc, an operating temperature range of -40° to 85°C, and a travel range of 0.5 \pm 0.2 mm. **E-Switch Inc.,** Minneapolis, MN, 800/867-2717.

www.e-switch.com ■

PDD, February 2008



E-SWITCH

The modular MDP-16 Series of illuminated pushbutton switches incorporates a front panel with many illumination options, in addition to 6 actuator colors to choose from. Actuator styles include a low or high bezel, and a flush mount or full guard alternative.

Current ratings of 5 or 8 A

Voltage ratings of 250 or 125 VAC

Availability of silver and gold contacts

An operating temperature of -25° to 55°C

- A maximum initial contact resistance of 100 milliohms
 - An insulation resistance of 50 Megaohms minimum at 100 V
 - An electrical life of 6,000 cycles
- www.e-switch.com

ECN, March 2008

Modular Pushbutton Switches Offer Illumination Options



E-Switch announced its modular MDP-16 Series of illuminated pushbutton switches with a modular interface design that features an attractive front panel and many illumination options. Actuator styles include a low or high bezel with a flush mount or full guard option. There are six actuator colors to choose from. Specifications include electrical life of 6,000 cycles both silver and gold, a mechanical life of 50,000 cycles typical, a contact rating of 5A, 250V AC, a contact resistance of 100 mΩ (initial max), an insulation resistance of 50 MΩ (min. at 100V), a dielectric strength of 2,000V DC and an operating temperature range of -25°C to +55°C.

E-Switch, 763-504-3525, www.e-switch.com

Machine Design, June 2008

Subminiature snap-action switches

The TS-1 subminiature snap-action switches have a straight-on PC pin termination. Switch specifications include 30,000-cycle electrical life; 100,000-cycle mechanical life; 0.1 A @ 125-Vac or 48-Vdc contact rating; 100-MΩ insulation resistance (minimum @ 250 Vdc); 250-Vdc dielectric strength; -25 to 80°C / <85% RH storage temperature; and operation at -15 to 55°C.

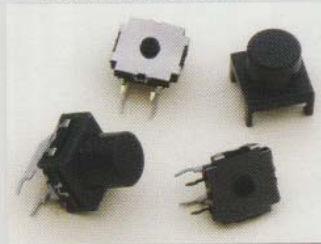
The TS-1 Series targets the security/detection, medical-device, appliance, instrumentation, and power-tool industries.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com **Circle 467**

Design World, June 2008

Sealed, right angle tactile switch

The TL6190 process-sealed switch has multiple operating forces and a life expectancy of 100,000 cycles. It has a nylon housing with a stainless steel cover and comes with a silicone rubber actuator.



Specifications for the switch include: operating force of 220 +/- 60 gf; contact rating of 50 mA @ 12 Vdc; contact resistance of 100 milliohms max initial; insulation resistance of 100 megohms (Min @ 100 V); dielectric strength of 500 Vdc;

travel of 0.50 +/- 0.20 mm; and operating temperature of -40 to +85° C. Ideal markets are telecommunications, audio, medical equipment, consumer electronics, computers, and more.

E-Switch, Inc. www.e-switch.com

Machine Design, July 2008

Electrical-switch catalog

The PC318 Product Catalog features hundreds of products including TL3340 - Subminiature SMT



Electronic Design, July 2008

TACTILE SWITCH RIDES LOW IN THE SADDLE

Sporting a near wafer-thin profile, the TL3315 surface-mount tactile switch stands 0.55 mm high and offers multiple operating-force options to suit unique designs. Target markets include consumer electronics, audio/visual, medical, testing and instrumentation, telecommunications, and computer/servers/peripherals. Operating forces available are 100, 160, and 250 gf. Specifications include an electrical life from 200,000 to 1 million cycles depending on operating force, a contact rating of 50 mA at 15 V dc, contact resistance of 200 mΩ maximum (initial), insulation resistance of 50 MΩ minimum at 100 V dc, dielectric strength of 250 V ac rms, and an operating temperature range from -20°C to 70°C.

E-SWITCH INC.

www.e-switch.com

ECN, April 2008

Modular Switch Series Extends Operating Life



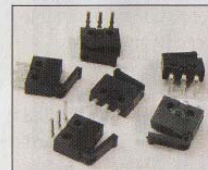
E-Switch announced its Model RP8100 round illuminated pushbutton switch that is available with either a threaded or snap-in panel mount. It is sealed to IP65 standards, and it comes with an LED illumination option. Specifications include an electrical life of 500,000 cycles at full load, operating force of 300 gf ±100 gf, dielectric strength of 1,000V AC rms., operating temperature of -30°C to +85°C, contact rating of 125 mA at 125V AC (100 mA at 50V DC), contact resistance of 5 mΩ max. (initial), insulation resistance of 1,000 MΩ (min. at 500V DC) and contact bounce of 10 ms max. Applications include instrumentation, telecommunications, audio, appliance and consumer electronics.

E-Switch

800-867-2717, www.e-switch.com

ECN, June 2008

Sealed Right Angle Tact Switch Features Dome Technology



E-Switch announced its TS Series sub-miniature snap action switches that have vertical PC pin terminations and both right and left angle PC pin terminations with either long or short terminals. Specifications include 50,000 cycles typical electrical life and 100,000 cycles typical mechanical life, a contact rating of 0.3A at 6V DC, insulation resistance of 100 MΩ (min. at 100V DC), dielectric strength of 250V AC for 60 seconds and an operating temperature range of 5°C to 85°C.

E-Switch, 763-504-3525, www.e-switch.com

Electronic Design, May 2008

E-Switch announces new sealed right angle tactile switch

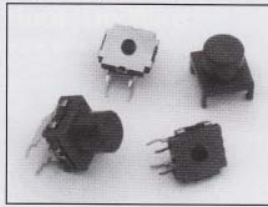
E-Switch's new sealed right angle tactile switch provides flexibility in your application

E-Switch announces the TL6190 – a new, right angle, sealed tactile switch featuring reliable dome technology and a strong tactile force. This process-sealed switch has multiple operating forces and a life expectancy of 100,000 cycles. The TL6190 has a nylon housing with a stainless steel cover and comes with a silicone rubber actuator. Specifications include:

- Operating Temperature – minus 40C to + 85C
- Electrical Life – 100,000 cycles
- Operating Force – 220 +/- 60gf
- Contact Rating – 50mA @ 12 VDC
- Contact Resistance – 100 milliohms max initial
- Insulation Resistance – 100 Megohms (Min @ 100V)
- Dielectric Strength – 500 VDC
- Travel – 0.50 +/- 0.20mm

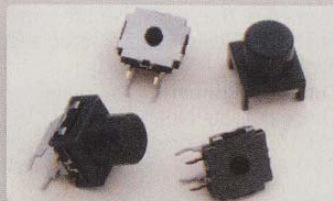
Marks for the TL6190 series switch include telecommunications, audio, medical equipment, consumer electronics, computers, among others.

Visit www.e-switch.com, or call at 800-867-2717 to request a free catalog. You can also request a free sample of one of 4,000 discrete part numbers for one of your projects.



Machine Design, August 2008

Right-angle tactile switch



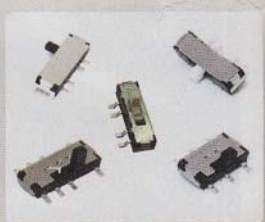
The TL6190 right-angle, sealed tactile switch features dome technology, a strong tactile force, multiple operating forces, a 100,000-cycle life, and operates at -40 to 85°C. The device has a nylon housing with a stainless-steel cover and comes with a silicone-rubber actuator. Specifications include 220 ±60-gf operating force; 50 mA @ 12-Vdc contact rating; 100-mΩ maximum initial contact resistance; 100-MΩ (minimum @ 100-V) insulation resistance; 500-Vdc dielectric strength, and 0.50 ±0.20-mm travel.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com **Circle 465**

Machine Design, November 2008

Slide switches

Five new slide switches are available for use in computers, servers, peripherals, consumer electronics, testing and instrumentation, and telecommunications. The switches come in tape and reel packaging and are sub-miniature surface mount.



The switches consist of EG1300, EG180, and EG1381 – three-position subminiature; EG1390 – two-position subminiature; and EG1400 – DP3T subminiature.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com **Circle 474**

EDT, September 2008

E-Switch's new illuminated tactile switch has multiple LED options

E-Switch now offers the TL1290, the latest in illuminated tact switch offerings. This right angle tact switch has through-hole termination and LED color offerings of blue, red green and yellow. It is manufactured with gold plated contacts for high reliability switching, has a sharp, tactile response and a long travel. Specifications include:



- Electrical Life – 25,000 cycles
- Operating Force – 500 +/- 125 gf
- Contact Rating – 100mA @ 32VDC
- Contact Resistance – 250 milliohms max (initial)
- Insulation Resistance – 100 Megohms (Min @ 500VDC)
- Dielectric Strength – 250 VAC
- Operating Temperature – minus 20C to + 70C

Markets for the TL1290 series illuminated tact switch include consumer electronics, audio/visual, medical, testing and instrumentation, telecommunications, and computer/servers/peripherals, among others.

Visit E-Switch at www.e-switch.com or contact at (800) 867-2717 to request your free catalog, or you can also request a free sample of one of over

Appliance Magazine, July 2008

Low-Profile Tactile Switch

The TL3315, a surface-mount tactile switch, has a low profile of 0.55 mm. With applications in consumer electronics, audio/visual, medical, testing, and instrumentation industries, the switch has operating force options of 100, 160, and 250 gf so customers can choose what works best for their design. It has an electrical life of 200,000 up to 1,000,000 cycles, depending on operating force. Contact rating is 50 mA at 15 V dc while contact resistance is 200 mΩ maximum. **E-Switch**, www.e-switch.com

NED, July 2008



Wide Array of Switches

FREE Catalog includes such products as tactile switches, pushbutton switches, and more.

E-Switch, Inc.
(800) 867-2717
▲ Circle 99 on card or visit www.nedinfo.ims.ca/7519-99

Appliance Magazine, April 2008

Modular Illuminated Push-Button Switches

A modular series of illuminated push-button switches features an appealing front panel and many illumination options. In addition to six colors to choose from, the MDP-16 actuator styles include a low or high bezel, or a flush mount, and full guard option. The switches have an electrical life of 6000 cycles and a mechanical life of 50,000 cycles, with a contact rating of 5 A at 250 V ac and 8 A at 125 V ac. With operating temperatures ranging from -25° to 55°C, they are suited for applications in the areas of industrial control, instrumentation, and telecommunications. **E-Switch Inc.**, www.e-switch.com

Electronic Distribution, November 2008

E-Switch introduces five new Slide Switches

E-Switch announces five new slide switches to fully round out the slide switch product line. They come in tape and reel packaging and are subminiature surface mount. EG1300 Slide Switch — 3-position sub-miniature, EG1380 Slide Switch — 3-position sub-miniature, EG1381 Slide Switch — 3-position sub-miniature, EG1390 Slide Switch — 2-position sub-miniature, and EG1400

Slide Switch — DP3T sub-miniature.

Markets for the EG series slide switches include computers, servers, peripherals, consumer electronics, testing and instrumentation, telecommunications, among others. E-Switch is dedicated to bringing new products to the market, and filling customer needs.

By continuously adding to and developing the switches that can best serve our customers, we sustain our high level of customer satisfaction.

Visit www.e-switch.com or call (800) 867-2717 to request a free catalog or a free sample of one of over 4,000 discrete part numbers for one of your projects.



ECN, December 2008

Pushbutton Switch Uses Two LEDs

Having availability as a SPST or DPST, E-Switch's LP6 illuminated pushbutton switch uses two separate LEDs over a lifespan of 200,000 cycles. The device demonstrates a contact rating of 12 mA at 12 VDC, maximum initial contact resistance of 50 mΩ, and minimum dielectric strength of 100 MΩ at 500 VDC over an operating temperature range from -20°C to 70°C. The SPST switch offers 150 gf ± 100 gf, and the DPST switch offers 200 gf ± 100 gf. Applications include computers, servers, peripherals, consumer electronics, performance audio, testing and instrumentation, and telecommunications.

E-Switch
800-867-2717, www.e-switch.com



Machine Design, November 2008

Illuminated pushbutton switch

The LP6 Series illuminated pushbutton switch has two separate LEDs and come as SPST or DPST. Specifications include 200,000 life cycles; 12-mA @ 12-Vdc SPST and DPST contact rating; 150 gf ± 100 gf for SPST and 200 gf ± 100 gf for DPST; 50-mΩ initial maximum contact resistance; 500-Vac dielectric strength; 100 MΩ (minimum @ 500-Vdc) insulation resistance; and operates at -20 to 70°C.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com **Circle 468**



MPMN, October 2008

Soft-Touch Switch

A tactile switch with a travel of 1.5 mm and a carbon-pill contact design features a soft touch. The moving contact of the TL9000-series switch is made of conductive rubber and requires only light actuation force of 150 g ± 50 g. The switch has a contact rating of 50 mA at 12 V dc, contact resistance of 100 mΩ maximum, insulation resistance of



100 MΩ minimum, and dielectric strength of 250 V ac. It operates within a -20° to 70°C temperature range. The rated electrical life of this switch is 100,000 cycles minimum.

E-Switch Inc.
MINNEAPOLIS
www.e-switch.com

US Tech, August 2008

Master Distributors Offers E-Switch's Line of Switches

Santa Monica, CA — Master Distributors, a distributor of electromechanical, interconnect and passive components, has been appointed as an authorized distributor by E-Switch. As part of the partnership, Master Distributors will offer E-Switch's entire line of quality switches which include rocker, toggle, slide, tact, pushbutton and DIP Switches.

E-Switch has been manufacturing quality switches for the electronics, telecom, high tech, instrumentation, audio/visual, medical equipment, appliance, industrial controls and consumer markets for over 29 years.

Contact: Master Distributors, 1301 Olympic Boulevard, Santa Monica, CA 90404 ☎ 310-452-1229 fax: 310-399-8600 Web: www.masterdistributors.com

IEN, June 2008

ILLUMINATED PUSHBUTTON SWITCH

Rated at 5 A, 250 Vac and 8 A, 125 Vac, Series MDP-16 with modular interface is available with various actuator styles. Units have 100 mΩ contact resistance, 50 MΩ insulation resistance, and 2,000 Vdc dielectric strength. They operate from -25 to +55°C. E-Switch Inc.; (800) 867-2717; Tech Contact: Lloyd Bodle

www.ieninfo.com/11202-1013 or circle 1013 on card



Electronic Design, July 2008

E-Switch's new tactile switch has very low profile. E-Switch announces the TL3315 — a new surface mount tactile switch with an extremely low profile — only 0.55mm! With applications in many industries, this switch has multiple operating force options so you can choose what works best in your design. Specifications include:

- Electrical Life — 200,000 cycles up to 1,000,000 cycles depending on operating force
- Operating Force — 100, 160 and 250 gf
- Contact Rating — 50mA @ 15 VDC
- Contact Resistance — 200 milliohms max (initial)
- Insulation Resistance — 50 Megaohms (Min @ 100VDC)
- Dielectric Strength — 250 VAC rms.
- Operating Temperature — minus 20C to +70C

Markets for the TL3315 series tact switch include consumer electronics, audio/visual, medical, testing and instrumentation, telecommunications, and computer/servers/peripherals, among others. Visit E-Switch at www.e-switch.com or call us at 800-867-2717 to request your free catalog.



MD&DI, October 2008

PRODUCTS & SERVICES

The latest in components, equipment, materials, services, and supplies, with focuses on adhesives and materials.

Tactile Switch

A company offers a right-angle tactile switch with through-hole termination for medical OEMs. The TL1290 has an electrical life of 25,000 cycles and a contact rating of 100 mA at 32 V dc. The switch is manufactured with gold-plated contacts for high-reliability switching and features contact resistance of 250 mΩ and insulation resistance of 100 MΩ at 500 V dc. It has a sharp, tactile response and an operating temperature range of -20° to 70°C. Light-emitting diode color offerings include blue, red, green, and yellow. E-Switch Inc., Minneapolis, MN, 800/867-2717.

www.e-switch.com

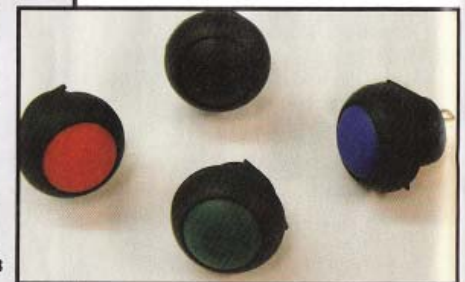


April 2008

Pushbutton switch

The RP8100 illuminated pushbutton switch comes with either a threaded or snap-in panel mount. Features of the IP65 switch include 500,000-cycle electrical life at full load, 300-gf ± 100-gf operating force, 125-mA @ 125 Vac or 100-mA @ 50-Vdc contact rating, and 5-mΩ maximum initial contact resistance. Also available is an LED illumination option.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com **Circle 448**



Design News, March 2008



▲ E-SWITCH'S ULTRA-MINI SWITCHES
E-Switch's TL3200 combines an ultra-miniature design with dual LEDs in a single- or dual-color options. Measuring 4.5 x 6.8 x 2 mm, they're available in red, green or yellow. The devices have a life expectancy of 30,000 cycles and an actuation force of approximately 160 gf. They also offer a contact resistance of 500 milliohms and an operating temperature ranging from -25 to 85°C. E-Switch is targeting the new tact switch in applications ranging from telecommunications and consumer electronics to medical devices and computer servers. <http://rbi.ims.ca/5704-545>

PD&D, October 2008



Multiple LED Options
E-Switch (Brooklyn Park, MN) offers the TL1290. According to the company, the right angle tact switch offers:

- Through-hole termination.
- LED colors of blue, red, green and yellow.
- Gold-plated contacts for high reliability switching.
- Sharp, tactile response.
- Electrical life of 25,000 cycles.
- Operating force of 500 ± 125 gf.
- Contact rating of 100 mA @ 32 VDC.
- Contact resistance of 250 milliohms max (initial).
- Insulation resistance of 100 Megaohms (Min @ 500 VDC).
- Dielectric strength of 250 VAC.
- Operating temperature of -20° to 70°C.

■ Usability in consumer electronics, audio/visual, medical, testing and instrumentation, telecommunications, and computer/servers/peripherals.

www.e-switch.com

PDD, July 2008



Rock, Toggle And Slide
Master Distributors (Santa Monica, CA) has been appointed as an authorized distributor by E-Switch (Minneapolis, MN). As part of the partnership, Master Distributors will offer E-Switch's entire line of quality switches which include Rocker, Toggle, Slide, Tact, Pushbutton and Dip Switches. E-Switch's Aesthetic Pushbutton Switches feature:

- A threaded or snap-in panel mount.
- An electrical life of 500,000 cycles at full load.
- An operating force of 300 GF ± 100 GF.
- A contact rating of 125 mA at 125 VAC or 100 mA at 50 VDC.
- An initial contact resistance of 5 milliohms maximum.
- An insulation resistance of 1,000 Megaohms minimum at 500 VDC.
- A dielectric strength of 1,000 VAC rms.
- An operating temperature of -30° to 85°C.
- A contact bounce of 10 ms maximum.

www.masterdistributors.com

Appliance Mag, Sept. 2008

Tactile Switch

A right-angle, sealed tactile switch features reliable dome technology and a strong tactile force. The process-sealed TL6190 switch has multiple operating forces and a life expectancy of 100,000 cycles. **E-Switch**, www.e-switch.com

ECN Asia, November 2008



Tactile switch with multiple LED options



- The TL1290 illuminated tact switch has through-hole termination and LED color offerings of blue, red green and yellow
- Manufactured with gold plated contacts for high reliability switching, has a sharp, tactile response and a long travel
- Electrical life of 25,000 cycles
- Operating force is 500 +/- 125gf
- Contact rating is 100mA at 32V DC
- Contact resistance is 250mΩ
- Insulation resistance is 100MΩ (min at 500V DC)
- Dielectric strength is 250V AC
- Operating temperature is -20°C to +70°C

E-Switch

Product code: **08ZZ316**

Machine Design, September 2008

Illuminated pushbutton switch

The RP8100 round illuminated pushbutton switch comes with either a threaded or snap-in panel mount. Switch specifications include 500,000 cycles at full load electrical life; 300 gf ± 100 gf operating force; 125 mA @ 125 Vac, 100 mA @ 50-Vdc contact rating; 5-mΩ maximum (initial) contact resistance; 1,000 MΩ (minimum @ 500 Vdc) insulation resistance; 1,000-Vac rms dielectric strength;

-30 to 85°C operating temperature; and 10-msec maximum contact bounce.

E-Switch Inc., 7153 Northland Dr. N, Minneapolis, MN 55428, (800) 867-2717, e-switch.com

Circle 467

