MOTION / VIBRATION SENSORS

MERCURY TILT SWITCH
Glass bulb with mercury bead that closes circuit when tilted above position parallel to ground. 4mm dia. x 13mm long bulb.
CAT # MS-121 2 for $1.00

MERCURY TILT SWITCH
Single-pole, plastic encapsulated tilt switch with 28" wire leads. When leads are up the contact is open. When leads are down the contact is closed. 1.47" x 0.35" x 0.39". Double stick tape on back.
CAT # MS-230 $7.00 each

3-AXIS ACCELEROMETER
The ADXL335 is a small, thin, low power, complete 3-axis accelerometer with signal conditioned voltage outputs. Measures acceleration with a minimum full-scale range of ±3 g. It can measure the static acceleration of gravity in tilt-sensing applications, as well as dynamic acceleration from motion, shock, or vibration.
CAT # ACX-61 $8.95 each

PHOTO DETECTOR
Photonic Detectors Inc # 1541-80A Miniature photovoltaic cell in a 5mm diameter LED-type package. 0.53Vdc.
CAT# PD-8 2 for $1.00 3 for 99¢

STEREO AMPLIFIER MODULES
Based on the PAM8610 chip, this little board just needs speakers, power and a signal source to provide lots of crisp, clear stereo sound. Operates on 7-15Vdc. The audio source (ie. Cellphone, MP3 player) provides the volume control. Clearly marked solder spots for easy assembly. 25 x 30mm pc board.
CAT# AMP-8610 $7.95 each

High-quality 3W stereo amplifier based on the PAM8403 chip. 24.5 x 15.0 x 3.5mm pc board. Low current drain. Operates on 2.5-5Vdc. Clearly marked solder or header connections.
CAT# AMP-8403 $4.00 each

CLOCK MODULE
The DS1302 trickle-charge timekeeping chip contains a Real-Time Clock/calender. It communicates with a microprocessor via a simple serial interface. On-board CR2032 backup battery. Operates on 2.5-5VDC @ 300mA. 44mm x 23mm x 11mm.
CAT # ME-48 $3.00 each

LIQUID SENSORS

FLOAT SWITCH WITH INTEGRATED THERMISTOR
Gems Sensors 222727 Horizontal liquid level float switch. For sensing rising or falling liquid levels (normally open or normally closed). Hermetically sealed magnet and reed switch for accurate, reliable long-life operation. Integrated 10K ohm NTC thermistor allows monitoring of liquid temperature as well. Threaded 13/16" male Nylon stem. Polypropylene float, 2.4" long from hinge to end. Four 10" leads, two for switch (red) and two for thermistor (green).
CAT# FLW-1 $3.50 ea. • 10 for $3.00 ea.

LIQUID LEVEL SENSOR
Float switch closes circuit when float rises to top of switch (end opposite leads). Can be used in opposite direction as well to close circuit when water level drops. 0.96" diameter plastic float and 0.35" threaded bushing with plastic nuts and rubber O-ring. 2.64" overall length. 14" pigtail leads.
CAT # FLW-2 $3.35 each

FLUID PRESSURE SENSOR
Using a 5 Vdc input, the fluid pressure sensor provides a 0.25 - 4 Vdc output proportional to pressure from 0-5" H2O max. Typical applications include duct air flow, filter pressure monitoring, combustion air flow and gaseous leak detection. Measures 1-5/16" x 17/32" on a pair of 7/8" long slotted mounting wings. Two 3/16" O.D. barbs. 3-pin connector with 3" wire leads for power and output.
CAT # FLS-4 $3.15 each

LIQUID FLOW SENSOR
Measures the rate of liquid flowing through it. Consists of a plastic valve body, flow rotor and hall effect sensor. When liquid flows through the sensor, a magnetic rotor will rotate and the rate of rotation will vary with the rate of flow. The hall effect sensor will then output a pulse width signal. Can be used with a microcontroller such as Arduino to monitor devices. Operates on 5vdc @ 15mA. Water flow range 0.3-6 L/min. Water pressure <0.8MPa. 4mm I.D. x 6mm O.D. inlets. Overall dimensions 35mm x 35mm x 26mm. 6" 3-wire leads with 3-pin connector.
CAT # FLW-3 $5.00 each

BI-POLAR HALL EFFECT SENSOR
MICRONAS HAL115UA-C Detects the presence or the absence of a magnetic field. TO-92UA. VDD = 4.5V to 24V. Typical VDD = 12V.
CAT# HES-1 75¢ each
10 for 65¢ each • 100 for 55¢ each

No Hassle Return Policy
### Standard Toggle

15/32" threaded mounting bushing

#### 15/20A Toggle Switches

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPST on-off</td>
<td>STS-94</td>
<td>2.10</td>
<td>1.95</td>
</tr>
<tr>
<td>SPDT, on-on</td>
<td>STS-95</td>
<td>2.45</td>
<td>2.20</td>
</tr>
<tr>
<td>SPDT, on-off-on</td>
<td>STS-96</td>
<td>2.50</td>
<td>2.30</td>
</tr>
<tr>
<td>SPDT, (on)-off-(on)</td>
<td>STS-100</td>
<td>2.65</td>
<td>2.45</td>
</tr>
<tr>
<td>DPST, on-off</td>
<td>STS-97</td>
<td>2.70</td>
<td>2.55</td>
</tr>
<tr>
<td>DPDT, on-on</td>
<td>STS-98</td>
<td>3.10</td>
<td>2.90</td>
</tr>
<tr>
<td>DPDT, on-off-on</td>
<td>STS-99</td>
<td>3.30</td>
<td>3.05</td>
</tr>
<tr>
<td>DPDT, (on)-off-(on)</td>
<td>STS-101</td>
<td>3.45</td>
<td>3.15</td>
</tr>
<tr>
<td>DPDT, (on)-off-on</td>
<td>STS-102</td>
<td>3.65</td>
<td>3.35</td>
</tr>
</tbody>
</table>

#### Solder / 0.25" QC Terminals

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPST, on-off</td>
<td>STS-56</td>
<td>2.00</td>
<td>1.85</td>
</tr>
<tr>
<td>SPDT, on-on</td>
<td>STS-57</td>
<td>2.35</td>
<td>2.10</td>
</tr>
<tr>
<td>SPDT, on-off-on</td>
<td>STS-58</td>
<td>2.40</td>
<td>2.20</td>
</tr>
<tr>
<td>SPDT, (on)-off-(on)</td>
<td>STS-78</td>
<td>2.55</td>
<td>2.35</td>
</tr>
<tr>
<td>DPST, on-off</td>
<td>STS-59</td>
<td>2.60</td>
<td>2.45</td>
</tr>
<tr>
<td>DPDT, on-on</td>
<td>STS-89</td>
<td>3.00</td>
<td>2.80</td>
</tr>
<tr>
<td>DPDT, on-off-on</td>
<td>STS-60</td>
<td>3.20</td>
<td>2.95</td>
</tr>
<tr>
<td>DPDT, (on)-off-(on)</td>
<td>STS-79</td>
<td>3.35</td>
<td>3.05</td>
</tr>
<tr>
<td>DPDT, (on)-off-on</td>
<td>STS-80</td>
<td>3.55</td>
<td>3.25</td>
</tr>
<tr>
<td>DPDT, on-off-on</td>
<td>STS-70</td>
<td>3.95</td>
<td>3.75</td>
</tr>
<tr>
<td>DPDT, (on)-off-on</td>
<td>STS-71</td>
<td>3.85</td>
<td>3.65</td>
</tr>
</tbody>
</table>

#### Screw Terminals

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPST, on-off</td>
<td>STS-130</td>
<td>2.20</td>
<td>1.90</td>
</tr>
<tr>
<td>SPDT, on-on</td>
<td>STS-56</td>
<td>2.00</td>
<td>1.85</td>
</tr>
<tr>
<td>SPDT, on-off-on</td>
<td>STS-60</td>
<td>3.20</td>
<td>2.95</td>
</tr>
<tr>
<td>SPDT, (on)-off-(on)</td>
<td>STS-79</td>
<td>3.35</td>
<td>3.05</td>
</tr>
<tr>
<td>DPST, on-off</td>
<td>STS-59</td>
<td>2.60</td>
<td>2.45</td>
</tr>
<tr>
<td>DPDT, on-on</td>
<td>STS-89</td>
<td>3.00</td>
<td>2.80</td>
</tr>
<tr>
<td>DPDT, on-off-on</td>
<td>STS-70</td>
<td>3.95</td>
<td>3.75</td>
</tr>
<tr>
<td>DPDT, (on)-off-on</td>
<td>STS-71</td>
<td>3.85</td>
<td>3.65</td>
</tr>
</tbody>
</table>

#### SPST On-Off Mini-Body Toggle

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Amp 250 Vac, 6 Amp 125 Vac</td>
<td>STS-130</td>
<td>2.20</td>
<td>1.90</td>
</tr>
</tbody>
</table>

#### Dual SPST Toggle Switch

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Amp 125 Vac, 9.75 mm</td>
<td>STS-20</td>
<td>1.50</td>
<td>1.75</td>
</tr>
</tbody>
</table>

#### SPST On-Off Toggle Switch W/ Push On Terminals

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard SPST On-Off toggle switch with 0.25&quot; QC terminals</td>
<td>STS-135</td>
<td>1.55</td>
<td>1.45</td>
</tr>
</tbody>
</table>

### Enclosed Body

6mm diameter flatted shaft. 9mm threaded bushing, 10Amp/ 125Vac, 6 Amp/ 250V T85.

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic body, shaft and bushing</td>
<td>RSW-210</td>
<td>1.65</td>
<td>1.50</td>
</tr>
</tbody>
</table>

### Wafer Style

6mm diameter knurled, split shaft. 9mm dia. threaded bushing. 0.5A/ 125Vac.

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-Position PC pin terminals</td>
<td>RSW-112</td>
<td>0.70</td>
<td>0.65</td>
</tr>
</tbody>
</table>

### Knife Switch


<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 x 12 x 9mm high. Two mounting holes on 46mm centers.</td>
<td>SWS-10</td>
<td>0.25</td>
<td>0.22</td>
</tr>
</tbody>
</table>

### Rotary Switches

ENCLOSED BODY

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-POLE, 2-POSITION</td>
<td>RSW-210</td>
<td>1.65</td>
<td>1.50</td>
</tr>
<tr>
<td>1-POLE, 3-POSITION</td>
<td>RSW-310</td>
<td>1.70</td>
<td>1.50</td>
</tr>
<tr>
<td>1-POLE, 4-POSITION</td>
<td>RSW-410</td>
<td>1.80</td>
<td>1.60</td>
</tr>
<tr>
<td>1-POLE, 5-POSITION</td>
<td>RSW-610</td>
<td>1.95</td>
<td>1.75</td>
</tr>
</tbody>
</table>

ROTARY SWITCHeS

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Amp 250 Vac, 6 Amp 125 Vac, 9.75 mm</td>
<td>STS-130</td>
<td>2.20</td>
<td>1.90</td>
</tr>
</tbody>
</table>

### Toggle Switch Cover For 15/32" Bushing

Protects standard toggle switches from dust and moisture. Fits all our standard toggle switches. Round, knurled nut.

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard SPST On-Off toggle switch with screw terminals. 0.45&quot; long toggle.</td>
<td>STS-136</td>
<td>1.65</td>
<td>1.50</td>
</tr>
</tbody>
</table>

### Soldered Terminals

<table>
<thead>
<tr>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10 for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard SPST On-Off toggle switch with screw terminals. 0.45&quot; long toggle.</td>
<td>STS-136</td>
<td>1.65</td>
<td>1.50</td>
</tr>
</tbody>
</table>

ORDER TOLL FREE 1-800-826-5432 21
**SNAP ACTION SWITCHES**

**STANDARD BODY**
Standard body switches are 27.8 x 15.9 x 10.3mm, S.P.D.T.

**STYLE**

<table>
<thead>
<tr>
<th>STYLE</th>
<th>AMPS</th>
<th>TERMINAL</th>
<th>MFG. #</th>
<th>CAT#</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>0.25&quot;</td>
<td></td>
<td>SMS-226</td>
<td>1.10</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>0.187&quot;</td>
<td>Zippy VMN-03N-02D0-B</td>
<td>SMS-332</td>
<td>1.60</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>0.187&quot;</td>
<td>Mulon Note: SPST N.O.</td>
<td>SMS-299</td>
<td>0.90</td>
</tr>
<tr>
<td>B</td>
<td>10</td>
<td>0.25&quot;</td>
<td></td>
<td>SMS-222</td>
<td>1.50</td>
</tr>
<tr>
<td>B</td>
<td>11</td>
<td>0.187&quot;</td>
<td>Defond</td>
<td>SMS-308</td>
<td>1.50</td>
</tr>
<tr>
<td>B</td>
<td>15</td>
<td>0.187&quot;</td>
<td>Zippy VMN-15Q-02D0-B</td>
<td>SMS-310</td>
<td>2.20</td>
</tr>
<tr>
<td>C</td>
<td>10</td>
<td>0.25&quot;</td>
<td></td>
<td>SMS-223</td>
<td>1.50</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>0.187&quot;</td>
<td>Zippy VMN-03N-05D0-B</td>
<td>SMS-330</td>
<td>1.25</td>
</tr>
<tr>
<td>D</td>
<td>6</td>
<td>0.187&quot;</td>
<td>Zippy VMN-06S-05D0-B</td>
<td>SMS-338</td>
<td>1.75</td>
</tr>
<tr>
<td>E</td>
<td>0.1</td>
<td>0.187&quot;</td>
<td>Zippy VMN-P1D-06D0-B</td>
<td>SMS-319</td>
<td>1.95</td>
</tr>
<tr>
<td>E</td>
<td>6</td>
<td>0.187&quot;</td>
<td>Zippy VMN-06S-06D0-B</td>
<td>SMS-312</td>
<td>1.75</td>
</tr>
</tbody>
</table>

**SMALL SIZE BODY**
Small body switches are 19.8 x 10.6 x 6.4mm, S.P.D.T. (unless otherwise specified) and have solder terminals. 125/250 Vac.

<table>
<thead>
<tr>
<th>STYLE</th>
<th>AMPS</th>
<th>MFG. #</th>
<th>CAT#</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>Microswitch 21SM284</td>
<td>SMS-359</td>
<td>0.50</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td></td>
<td>SMS-220</td>
<td>1.10</td>
</tr>
<tr>
<td>C</td>
<td>5</td>
<td></td>
<td>SMS-221</td>
<td>1.00</td>
</tr>
<tr>
<td>D</td>
<td>5</td>
<td></td>
<td>SMS-219</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>5</td>
<td>Burgess V4NC / PC pins</td>
<td>SMS-365</td>
<td>1.25</td>
</tr>
<tr>
<td>F</td>
<td>5</td>
<td>Micro 311SM56</td>
<td>SMS-357</td>
<td>1.15</td>
</tr>
<tr>
<td>E</td>
<td>0.1</td>
<td>Cherry DB3</td>
<td>SMS-302</td>
<td>0.85</td>
</tr>
<tr>
<td>G</td>
<td>6</td>
<td>Defond, Used</td>
<td>SMS-303U</td>
<td>0.50</td>
</tr>
<tr>
<td>A</td>
<td>16.1</td>
<td>Honeywell 2M195G10A03-B</td>
<td>SMS-372</td>
<td>0.60</td>
</tr>
</tbody>
</table>

**MINI BODY STYLE**

**SPDT MINI-SNAP-ACTION SWITCH W/ SIM ROLLER LEVER**
Omron D2F-01L3. SPDT. Rated 0.1 Amp @ 30 VDC. Simulated roller lever extends to end of switch. Body: 12.8 x 5.5 x 5.5mm. Thru-hole mounting. PC pins. RoHS. CAT # SMS-371 Reduced Price

<table>
<thead>
<tr>
<th>PRICE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.45</td>
<td>0.40</td>
</tr>
<tr>
<td>0.85</td>
<td>0.85</td>
</tr>
<tr>
<td>1.00</td>
<td>0.90</td>
</tr>
<tr>
<td>0.80</td>
<td>0.80</td>
</tr>
<tr>
<td>0.45</td>
<td>0.40</td>
</tr>
<tr>
<td>0.55</td>
<td>0.45</td>
</tr>
</tbody>
</table>

**JOYSTICKS**

2-Axis, self-centering joysticks. Two independent 10K Ohm pots, one per axis. Select button actuated when the joystick is pressed down.

<table>
<thead>
<tr>
<th>PRICE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$3.95</td>
<td>each</td>
</tr>
<tr>
<td>$3.56</td>
<td>each</td>
</tr>
<tr>
<td>$1.50</td>
<td>each</td>
</tr>
</tbody>
</table>

27mm dia. footprint.
31mm max height.

**CAT# JS-932**

**CAT# ST-1079** Reduced Price

Interfaced through a 5-pin header.
2 analog outputs (X & Y), 1 digital output (button). Output voltage:
2.5V, 37mm x 25mm x 32mm.

22 VISIT OUR WEBSITE - WWW.ALLELECTRONICS.COM
ROUND ROCKERS
Matte-black, single-pole. Snap-mounts in 0.8" diameter hole. 0.9" dia. bezel. 0.6" dia. round rocker. Rated 13 Amps / 125 Vac. Solder or 0.187" qc terminals. Four configurations:

With BLACK rocker
ON-OFF, S.P.S.T. CAT# RS-144 $1.25 each
ON-ON, S.P.D.T. CAT# RS-145 $1.35 each
ON-OFF-ON CAT# RS-146 $1.40 each

With RED rocker Rated 10 Amps / 125 Vac
ON-OFF, S.P.S.T. CAT# RS-144R $1.20 each

NEW ITEM

SPDT MINIATURE ROCKER SWITCH
Eledis # 3A11-BFST SE22. S.P.D.T., on-on. Rated 5A, 120Vac. Solder-lug terminals. Bezel is 16 x 20 mm. Matte-black Nylon rocker and bezel. Snap-mounts into a 0.5" x 0.6" cut-out.

CAT # RS-228 2 for $1.00
25 for 45¢ each • 100 for 40¢ each

DPST PADDLE SWITCH
Arrow England # PSP22SB A / 93RP-404. ON-OFF D.P.S.T. 0.90" long white paddle switch rated at 15(6) amp 250V.
1 1/2 HP 20A 250Vac, 3/4 HP 125Vac. Mounting tabs with holes 1.60" centers. Solder lugs. CSA, UL.

CAT# RS-222 65¢ each

12V LIGHTED ROCKER SWITCHES

12V LIGHTED ROCKER SWITCHES, ROUND
S.P.S.T., on-off. Round body. Rated 16A (except LRS-28G). Can be wired to be always on, or when contacts are closed. Solder or 0.187" qc terminals.

0.90" DIA. BEZEL
12V INCANDESCENT LAMP
Lighted red rocker with on-off symbols. Mounts in 0.8" diameter hole.

CAT# LRS-32 $1.85 each
same as above, but green, 10 Amps, no symbols.

CAT# LRS-29G $1.00 each
10 for 85¢ each

New Item

ON-OFF MINI ROCKER SWITCH
C & K D-Series. S.P.S.T.
Rated 4A. 125Vac / 2A, 250Vac. Matte black bezel and rocker with O-I, on-off symbols in white. Snap-mounts in 13 x 19mm panel cutout. 0.187" qc/ solder terminals, bent at 90 degrees for a lower profile. UL, CSA.

CAT# RS-223 2 for $1.00 • 100 for 40¢ each

ORDER TOLL FREE 1-800-826-5432
ON-OFF 12V LIGHTED ROCKER SWITCH
S.P.S.T. rocker switch with red 12V lighted rocker. Rated 20A / 12V. Snap-mounds in 1.05" x 0.45" cut-out. 0.25" qc/solder terminals.
CAT# LRS-20 $1.75 each

24V LIGHTED ROCKER SWITCH
Carlingswitch. S.P.S.T., ON-OFF, lighted rocker switch. Matte-black rocker and bezel. Red jewel in rocker. Snap-mounts in 1.4 x 0.8" rectangular cut-out. 0.25" qc/solder terminals.
CAT# LRS-51 $1.95 each
10 for 65¢ each

120V LIGHTED ROCKER SWITCHES
S.P.S.T On-off red lighted rocker switch. On/Off symbols (- and O) printed in white. Black body, bezel 1.25" x 0.55". Snap mounts in 1.10" x 0.42" cutout. Current rating: 20A 125 Vac; 15A 250 Vac. 0.25" QC/solder terminals. TUV CE.
CAT# LRS-40 $1.95 each
Neon-lit red rocker with on/off symbols. Rated 20A @ 125Vac. Snap-mounts in 23 x 27mm (0.90" x 1.07") rectangular cut-out. 0.25" qc/solder terminals.
D.P.S.T., ON-OFF CAT# LRS-42 $1.20 each
D.P.D.T., ON-OFF CAT# LRS-43 $1.35 each

SLIDE SWITCHES
SPDT MINI SLIDE SWITCH
S.P.D.T. miniature slide switch. 10.0 x 5.5mm body. Rating: DC 50V, 0.5A. Mounting holes on 15mm centers. Solder-loop terminals.
CAT# SSW-86 4 for $1.00
100 for 20¢ each • 1000 for 12¢ each

MINIATURE SPDT SLIDE SWITCH
7.5mm x 15.5mm (0.21” x 0.62") body. 5mm high slider, 3.5mm travel. Mounting holes on 19mm centers. Solder loop terminals.
CAT# SSW-91 4 for $1.00
100 for 20¢ each • 1000 for 12¢ each

MINIATURE DPDT SLIDE SWITCH
DPDT miniature slide switch. 7.5mm x 15.5mm (0.21” x 0.62") body. 5mm high slider. Rating: DC 50V 0.5A, contact resistance 30m ohm Max. Mounting holes on 19mm (0.75") centers. Solder loop terminals.
CAT # SSW-92 4 for $1.20
100 for 25¢ each • 1000 for 15¢ each

REDUCED PRICE

TACTILE PUSH BUTTONS

TACTILE MOMENTARY PUSHBUTTONS
6MM SQUARE
Off-(On) momentary pushbutton. Rated 50mA/12Vdc. 6 x 6 x 3mm body. PC leads on 4 x 6mm centers.
Overall
Height CAT# Price 100
4mm TSW-64 5 for 75¢ $12.00
8mm TSW-68 5 for 85¢ $13.00
12mm TSW-612 5 for 85¢ $13.00

12MM SQUARE
Off-(On) momentary pushbutton. Rated 50mA/12Vdc. 12 x 12 x 3mm body. PC leads on 4 x 12mm centers.
4mm TSW-124 5 for $1.00 $15.00
6mm TSW-126 4 for $1.00 $18.00
12mm TSW-1212 4 for $1.00 $18.00

MINI-TACTILE PUSHBUTTON SWITCH, SURFACE MOUNT
S.P.S.T., normally-open mini-pushbutton. 6mm square body. Four surface mount leads on 4 x 8mm centers.
CAT# MPB-43 3 for $1.00
100 for 29¢ each • 1000 for 23¢ each

LED LIGHTED TACTILE MOMENTARY PUSHBUTTONS
Good-looking 12mm square tactile pushbutton switch. S.P.S.T., normally-open. High-brightness LED in 7mm lens embedded in plunger. LED will operate on any voltage when used with appropriate resistor, and can be wired for always-on or operate when button is pushed. Ratings: 50 mA 12 Vdc. Available in red, green, blue and yellow.
CAT# LTSW-127R, G, B or Y $1.00 each • 10 for 85¢ each

TACTILE SWITCH
Alps #SKEY0B028A.
S.P.S.T., normally-open. “Soft-feeling” rubberized pushbutton for pc or breadboard mounting. 7.8 x 7.8 x 5mm. 1mm travel. Orange button on black base.
CAT# MPB-143 4 for $1.00 • 100 for $20.00

MOMENTARY PUSHBUTTON SWITCHES

MOMENTARY N.O. MINI-SWITCH
S.P.S.T. miniature momentary pushbutton switch. Push-on, release-off. Press-fit in 0.31” diameter chassis hole. 0.39” diameter black bezel. Green button extends 0.29” above mounting plane in off-position. Switch body is 0.31” dia. x 0.5” long (excluding pc pins) below mounting plane.
CAT# PB-159 35¢ ea. • 100 for 25¢ ea.
SPDT MOMENTARY
C & K 8168.
1/4-40 UNS-2A threaded bushing.
Also has metal mounting bracket.
Black knob fits 0.12” diameter shaft.
Rated: 0.4VA Max. 0.35” long PC leads.
CAT# MPB-178 $1.25 each
10 for $1.00 each

SUB-MINI PUSHBUTTON,
SPST NORMALLY-OPEN
Right angle sub-miniature S.P.S.T.
momentary N.O. pushbutton switch.
Epoxy sealed. 4.7mm non-threaded
brushing. Black plunger.Rated: 0.4VA max.
Gold-plated PC terminals plus stabilizing pin.
CAT# MPB-237 75¢ each • 10 for 65¢ ea.

SPST MOMENTARY PUSHBUTTONS
1/4” bushings and plastic button. Ideal for most
low current projects. Solder-loop terminals.

Normally open
Red button CAT# MPB-1
Black button CAT# MPB-1B
Blue button CAT# MPB-1BL
Green button CAT# MPB-1G
Yellow button CAT# MPB-1Y
White button CAT# MPB-1W
85¢ each • 100 for 65¢ each

Normally closed
Red button CAT# MPB-5R
Black button CAT# MPB-5
60¢ each • 100 for 45¢ each

MOMENTARY PUSHBUTTONS
Rated 5A/120Vac, 2A/250Vac.
Removable 10mm diameter
red plastic cap. 6mm threaded
brushing mounting.
Includes nuts and washers.
Solder terminals. UL.

S.P.D.T. CAT# MPB-174 $2.70 each
D.P.D.T. CAT# MPB-175 $3.00 each

N.O. MOMENTARY
S.P.S.T. normally-open, momentary
pushbutton switch. Heavy-duty metal
plunger, suitable for foot switch
applications. 15/32” threaded
brushing mounts in panels up to
1/2” thick. Solder-loop terminals.

4 A / 125 Vac CAT# PB-142 $2.75 each
10 A / 125 Vac CAT# PB-147 $3.25 each

MOMENTARY PUSHBUTTONS
(On)-(On), heavy-duty pushbutton
switch with metal plunger and mounting bushing.
Ideal for foot-switch or hard physical
use. 15/32” threaded bushing
for panels up to 0.5” thick.
0.4” diameter plunger.
Solder terminals. Rated 2A 250Vac.

SPDT CAT# PB-174 $4.00 each
DPDT CAT# PB-176 $4.80 each
3PDT CAT# PB-237 $3.25 each

LARGE, SURFACE-MOUNT PUSHBUTTON
S.P.S.T., normally-open, momentary pushbutton switch.
1.6” diameter metal body with
mounting flanges, holes on
2.25” centers. Originally for automotive horn
application. 0.84” diameter black push-button,
0.95” overall height.
CAT# PB-156 $1.75 each

LARGE MOMENTARY PUSHBUTTON SWITCH
Black plastic. Fairly rugged
S.P.S.T., normally-open
switch, possibly designed
for gaming purposes. 19.5mm dia. plunger
in a 29mm dia. x 20mm high case. Mounting
holes on 50mm centers. 0.187”qc/ solder termi-
nals. Can be surface mounted or mounted from
behind panel through 29.5mm diameter hole.

Note: terminals are tarnished but functional.
CAT# PB-225 $1.15 each
10 for $1.00 each • 100 for 75¢ each

NORMALLY-OPEN MOMENTARY
Heavy-duty metal pushbutton switch.
Threaded bushing mounts in
0.75” dia. hole
in panels up to
0.35” thick.
Screw-clamp terminals. Rated 4 A / 125 Vac.

Flat-top style. Nickel-plated button is flush
with bezel in open position. Bezel measures
0.86” diameter x 0.05” high.
CAT# PB-144 $3.95 each

Dome style. Nickel-plated dome and bezel
measure 0.86” diameter x 0.12” high.
CAT# PB-143 $3.95 each

WEATHER-PROOF METAL
PUSHBUTTON SWITCH
Single-pole, push-to-make momentary
pushbutton switch. IP66, waterproof,
dustproof protection. Metal parts are
nickel-plated. Push-button is recessed
inside of 0.85” dia. bezel. Threaded bushing is
0.74” dia. x 0.73” long. 1.33” overall length
including terminals. Screw-clamp terminals.
CAT# PB-172 $7.50 each

GAME SWITCH S.P.D.T.
MOMENTARY BLUE PUSHBUTTON
Rugged momentary pushbutton
switch designed for games and
other repetitive applications.
SPDT snap-action switch rated
5 Amps @ 125/250 Vac.
1.31” dia. x 0.15” high white bezel.
1.06” diameter threaded plastic
brushing with nut. Fits panels up to
0.8” thick. 0.9” dia. opaque
blue plastic plunger.
CAT# PB-9B $3.00 Reduced Price
$2.00 each

30 DAY MONEY-BACK GUARANTEE
25
MOMENTARY LIGHTED PUSHBUTTON SWITCHES

With polycarbonate 1" round lens assembly, designed for displays and games. The rugged S.P.D.T snap-action switch assembly is designed for millions of operations. Rated 5 Amps @ 125/250 Vac. The assembly is lighted with a replaceable 12 Volt, 3 Watt, #161 wedge-base lamp. 1.25" dia. x 0.3" high matte black plastic bezel. 0.93" dia. threaded bushing with a plastic nut mounts in panels up to 0.70" thick. Lens colors: red (R), green (G), blue (B), white (W).

CAT# LPS-1(R, G, B, W)
$ 3.75 each • 10 for $ 3.45 each

SPST MOMENTARY PUSHBUTTON
S.P.S.T., normally-open, momentary pushbutton switch rated 3A/ 125V. 10mm diameter red button. 14.9mm diameter x 7mm high black bezel. Threaded bushing mounts in 10mm diameter hole. Solder terminals.

CAT# PB-179 $ 1.00 each
10 for 90¢ each • 100 for 78¢ each

PUSHBUTTON WITH METAL BEZEL
S.P.S.T momentary pushbutton. 0.51" dia. plunger, 0.74" dia. metal bezel. 0.62" dia. threaded bushing mounts in panels up to 0.15" thick. Solder lug terminals. 4A 125 Vac.

<table>
<thead>
<tr>
<th>Plunger</th>
<th>CAT#</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>PB-160</td>
<td>$ 1.75</td>
</tr>
<tr>
<td>Blue</td>
<td>PB-160BL</td>
<td>$ 1.75</td>
</tr>
<tr>
<td>Green</td>
<td>PB-160G</td>
<td>$ 1.75</td>
</tr>
<tr>
<td>Yellow</td>
<td>PB-160Y</td>
<td>$ 1.75</td>
</tr>
</tbody>
</table>

NORMALLY-OPEN

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB-145</td>
<td>$ 1.75</td>
</tr>
<tr>
<td>PB-145BL</td>
<td>$ 1.75</td>
</tr>
<tr>
<td>PB-145G</td>
<td>$ 1.75</td>
</tr>
<tr>
<td>PB-145Y</td>
<td>$ 1.75</td>
</tr>
</tbody>
</table>

NORMALLY-CLOSED

<table>
<thead>
<tr>
<th>CAT#</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB-138</td>
<td>$ 1.35 each</td>
</tr>
<tr>
<td>PB-139</td>
<td>$ 1.35 each</td>
</tr>
<tr>
<td>PB-172G</td>
<td>$ 1.35 each</td>
</tr>
<tr>
<td>PB-172B</td>
<td>$ 1.35 each</td>
</tr>
<tr>
<td>PB-172Y</td>
<td>$ 1.35 each</td>
</tr>
</tbody>
</table>

$1.50 each • 10 for $1.20 each

SPECIAL - NORMALLY CLOSED MOMENTARY PUSHBUTTON, RED
S.P.S.T. 0.51" diameter red plunger, 0.74" diameter metal bezel. 0.62" diameter threaded bushing mounts in panels up to 0.15" thick. Solder lug terminals. 3A 125V. Good switch for prototypes and projects. Not recommended for frequent use.

CAT# PB-199 85¢ each • 20 for 75¢ each

SPST N.O. PUSHBUTTON
Single-pole, normally-open momentary switch. Attractive and functional dome-shaped pushbutton. 0.70" dia. black plastic bezel. 0.45" button. Extends 0.3" above mounting plane. Threaded bushing mounts in 0.53" diameter hole. Solder terminals.

Red Button | CAT# PB-138
Black Button | CAT# PB-139
Green Button | CAT# PB-172G
Blue Button | CAT# PB-172B
Yellow Button | CAT# PB-172Y
$1.50 each • 100 for $1.20 each

DPDT MOMENTARY MINI PUSHBUTTON, PC MT.
ITT PVA series DPDT Momentary mini pushbutton switch. Plastic body is 9mm x 9mm x 9mm excluding plunger. 3mm square plunger. PC terminals.

CAT# MPB-227 2 for $1.00 • 100 for 40¢ ea.

SURFACE-MT MOMENTARY PUSHBUTTON W/ 8’ CABLE
SPST normally-open momentary pushbutton switch. Rated 6A/125VAC, 3A/250VAC. Switch housed in black plastic enclosure, 1.4" x 1.3" x 1.42". Mounting flanges on 1.6" centers. Durable 8’ cable with nylon braid sleeving, 2-conductor 20 AWG stranded wire.

CAT# PB-205 $ 3.95 each

LIGHTED DOORBELL SWITCH
Broan # RC819. SPST, normally-open, surface-mount pushbutton switch. 2.7” x 1.0” x 0.75” high shiny brass/gold-colored plastic base with white pushbutton. Push-button is lighted when 10-16V is present. Screw terminals. Includes mounting screws.

CAT# PB-234 95¢ each • 10 for 85¢ each

PUSH-ON/PUSH-OFF SWITCHES

MINI SPDT
Rated 2A/ 250Vac. 6mm threaded bushing. 10mm diameter red plastic cap. Solder-lug terminals.

CAT# MPB-176 $ 2.85 each

PUSHBUTTON SWITCH
Judco model# J-188A-1. SPST, push-on push-off, plastic pushbutton. Contacts rated 6 amps @ 125 Vac. Black body, actuator and panel nut. 3/8-27 threaded bushing. 4 1/2" stranded wire pigtauls. UL listed. For moisture-resistant cap/nut see CAT# WPC-3.

CAT# PB-13 $ 1.85 ea. • 100 for $1.50 ea.

BLACK RUBBER BOOT/CAP
Fits snugly over 13mm diameter knurled nut on Judco pushbutton switches. Prevents dust and moisture contamination. Fits CAT# PB-13

CAT# WPC-3 65¢ each • 100 for 53¢ each

S.P.S.T. ON/OFF
Rated 3A/ 125V. 10mm diameter red button. 14.5mm dia. x 7mm high black bezel. Threaded bushing mounts in 10mm diameter hole. Solder terminals.

CAT# PB-177 $ 1.35 each
10 for $1.20 each • 100 for $1.05 each

SPST PUSH-ON / PUSH-OFF
Judco #J-977 Mini Flat Pac. Two terminal, push-on/push-off switch. Rated 300mA/12Vdc. 0.472" square x 0.268" thick (0.366" with pushbutton). PC leads on 0.276" centers.

CAT# PB-193 $ 1.00 ea. • 10 for 90¢ ea.
DIP SWITCHES

2 POSITION Standard style.
CAT# DWS-2 65¢ each

4 POSITION Standard style.
CAT# DWS-4 50¢ each
100 for 30¢ each

4 POSITION Low profile style.
CAT# DWS-4S $1.00 each

7 POSITION Piano style.
CAT# DWS-7P 50¢ each

8 POSITION Standard style.
CAT# DWS-8 $1.00 each

10 POSITION Standard style.
CAT# DWS-10 85¢ each

FOOT SWITCH

Spring-return metal foot switch for 120Vac devices. Momentary-on action, on when pressed: off when released. Ideal for rotary tool, scroll saw, devices using 200W or less. 6’’ cords for power input and output. 5’’ x 3’’ x 2 1/4’’.
CAT # FSW-15 $19.95 each

KEYPADS

16 BUTTON INDOOR / OUTDOOR KEYPAD
Fully-sealed, tactile snap-dome contacts. Contacts rated 30 mA @ 12 Vdc. 4 x 4 buttons (2.7’’ x 3’’ x 0.36’’). 9-pin headers, 0.1’’ spacing. See spec sheet on our web site for more info.
CAT # KP-23 $13.75 ea. • 10 for $12.75 ea.

12 BUTTON KEYPAD
Numerals 0 - 9, * and #. One common terminal. Contacts rated 20 mA @ 24 Vdc. 2.01’’ x 2.24’’. Black with white buttons. Can be rear-mounted through a 2.25’’ x 1.81’’ cutout.
CAT# KP-12 $4.95 each

4 X 4 MATRIX MEMBRANE KEYPAD
Digits 0 through 9, letters A, B, C, D and symbols *, #. 3.0’’ x 2.7’’. Snap-action feel to switches. Peel-off adhesive backing and stick onto smooth, clean surface. 3.2’’ ribbon connector, terminated with 8-pin socket connector, 0.1’’ spacing.
CAT # ME-44 $3.55 each

SNAP-TOGETHER PROJECT BOXES

Two or three piece black ABS enclosures.
1.46” X 1.06” X 0.67”
Black ABS plastic project box. Bottom snap-fits tightly into place. 0.71’’ x 0.22’’ slot in one side of box.
CAT# MB-95 $1.50 ea. • 10 for $1.35 ea.

1.2’’ X 1.61’’ X 0.89’’
3-pieces. Bottom and one (long) side snap-fit in place. Mounting ears with holes on 2.6’’ centers.
CAT# MB-96 $2.35 each
10 for $2.00 each

3.56” X 1.50” X 1.20”
Bottom snap-fits into place. Mounting ears with holes on 3.9’’ centers. 0.25’’ x 0.43” opening near the bottom of one long side.
CAT# MB-97 $1.95 ea. • 10 for $1.70 ea.

ORDER TOLL FREE 1-800-826-5432