**LIQUID SENSORS**

**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 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

**FLOAT SWITCH WITH INTEGRATED THERMISTOR**
Gems Sensors. 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. 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 FLOW SENSOR**
Measures the rate of liquid flowing through it. Consists of a plastic valve body, flow rotor and hall effect sensor. 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

**PROXIMITY SENSOR**
P/N: LJ12A3-4-Z/BX. Inductive-type proximity sensor with NPN. Normally open transistor switch. Output upon detection. Power: 5-36 VDC. Output Current: 300mA. Detection Range: 4mm. Detected material: Iron/Steel alloys. 64mm long x 12mm diameter threaded bushing. Includes hardware. 3-wire, 43” cable.

CAT # PSW-21 $3.75 each

**FLUID LEVEL SENSOR**
Measures the rate of liquid flowing through it. Consists of a plastic valve body, flow rotor and hall effect sensor. 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 $3.15 each

**THROUGH-BEAM PHOTO-ELECTRIC SENSOR PAIR**
SICK Optics WS15-D1130 / WE15-A1130. Photo-electric sender and receiver pair detects the presence of an object when the beam between the two is interrupted. When the beam is broken, the receiver produces a current that can be used to trigger an audio-visual signal or relay-operated device. 5 Meter range. Built-in LED alignment and power indicators. Modules are 38 x 21 x 16.2mm and can be front or side-mounted. Front-mount hardware is included. Operate on 10-30Vdc. Power supply not included. cULus.

CAT # OSU-1130 $11.35 pair

**RED LASER MODULES**

**LASER DIODE**
LiteOn # LTLD505T. 6mm diameter. Gold-plated heat-sink base and leads.

CAT# DLM-6 $85¢ each
100 for $40¢ each

**LASER ASSEMBLY W/ PINS**
Mounted on pc board with header pins for use with Arduino and other projects. Can be used as a trip wire for theft detection or for optical effects. 26 x 16 x10mm.

CAT# ST-1172 $2.80 each

**MODULE WITH ADJUSTABLE LENS**
Metal enclosed module. 12mm diameter x 35mm long. 5” pigtail leads.

CAT# DLM-8 $4.55 ea. • 10 for $4.00 ea.

**RED X MODULE**
Projects a red X. Visible approximately 10’ in daylight. Metal enclosed module, 12mm diameter x 35mm long. 5” pigtail leads.

CAT# LL-6 $5.00 each

**CD LASER OPTICS AND MECHANISM**
Sony# KSM213CLCM / KSS213CL. Optical pickup mechanism with CD laser lens assembly. 3.93” x 3.15” metal bracket. New, original condition.

CAT # LA-10 $7.50 each
10 for $6.70 each

**New Item**
MINIATURE TOGGLE

MINIATURE TOGGLE - THREADED BUSHING

1/4” threaded bushing. Rated 3A / 120Vac.
Note: Parentheses indicate a momentary position, i.e., (on)-off indicates “momentary-on”

<table>
<thead>
<tr>
<th>CAT#</th>
<th>DESCRIPTION</th>
<th>Terminals</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTS-4</td>
<td>SPDT, on-on</td>
<td>Solder-lugs</td>
<td>$1.25</td>
</tr>
<tr>
<td>MTS-4PC</td>
<td>SPDT, on-on</td>
<td>PC pins</td>
<td>$1.25</td>
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<tr>
<td>MTS-5</td>
<td>SPDT, on-off-on</td>
<td>Solder-lugs</td>
<td>$1.25</td>
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<tr>
<td>MTS-5PC</td>
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<td>PC pins</td>
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<td>MTS-8</td>
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<td>MTS-12PC</td>
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<td>PC pins</td>
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<td>MTS-94</td>
<td>DPDT, on-off-(on)</td>
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<td>MTS-70</td>
<td>4PDT, on-on</td>
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</table>

SWITCH COVER FOR 1/4” BUSHING

Protects mini-toggle switches from dust and moisture. Rubber boot attached to 1/4” threaded nut fits over handle and screws onto bushing. Fits all mini-toggle switches (our CAT#s MTS-XXX) except those with short or extra-long handles. Round trim, black plastic.
CAT# SBT-1 75¢ each

D.P.D.T. ON-OFF-ON

Reduced Price

CAT# MTS-80 $1.50 each 10 for 90¢ each

D.P.D.T. ON-ON

Rated 5A, 120Vac. Plain, non-threaded 0.25” diameter bushing. 0.95” long, flat toggle handle. PC leads.
CAT# MTS-75 65¢ each 10 for 45¢ each

MINIATURE TOGGLE - FLAT HANDLE

<table>
<thead>
<tr>
<th>CAT#</th>
<th>DESCRIPTION</th>
<th>Terminals</th>
<th>Each</th>
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<tbody>
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<td>MTS-21</td>
<td>DPDT, on-off-on</td>
<td>Solder lugs</td>
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MINIATURE TOGGLE - PLAIN BUSHING

D.P.D.T. ON-ON

Rated 1.5 amp @ 250 Vac. Solder lug terminals. 0.4” long bat handle. 0.2” diameter threaded bushing.
CAT# SMTS-4 $1.35 each 10 for $12.50 • 100 for $110.00

D.P.D.T. ON-ON

Rated: 1.5 amp @ 250 Vac. Solder lug terminals. 0.4” long bat handle. 0.2” diameter threaded bushing.
CAT# SMTS-8 $1.75 each 10 for $15.50 • 100 for $135.00

JOYSTICKS

2-Axis, self-centering joysticks. Two independent 10K Ohm pots, one per axis. Select button actuated when the joystick is pressed down.
27mm dia. footprint. 31mm max height.
CAT# JS-932 $3.95 each 10 for $3.56 each

Interfaced through a 5-pin header. 2 analog outputs (X & Y), 1 digital output (button). Output voltage: 2.5V. 37mm x 25mm x 32mm.
CAT# ST-1079 $1.50 each

MINIATURE TOGGLE - PLAIN BUSHING

D.P.D.T. ON-ON

Rated 5A, 120Vac. Plain, non-threaded 0.25” diameter bushing. 0.95” long, flat toggle handle. PC leads.
CAT# MTS-75 65¢ each 10 for 45¢ each

SUB MINIATURE TOGGLE

S.P.D.T. ON-ON

Rated: 1.5 amp @ 250 Vac. Solder lug terminals. 0.4” long bat handle. 0.2” diameter threaded bushing.
CAT# SMTS-4 $1.35 each 10 for $12.50 • 100 for $110.00

D.P.D.T. ON-ON

Rated: 1.5 amp @ 250 Vac. Solder lug terminals. 0.4” long bat handle. 0.2” diameter threaded bushing.
CAT# SMTS-8 $1.75 each 10 for $15.50 • 100 for $135.00

JOYSTICKS

2-Axis, self-centering joysticks. Two independent 10K Ohm pots, one per axis. Select button actuated when the joystick is pressed down.
27mm dia. footprint. 31mm max height.
CAT# JS-932 $3.95 each 10 for $3.56 each

Interfaced through a 5-pin header. 2 analog outputs (X & Y), 1 digital output (button). Output voltage: 2.5V. 37mm x 25mm x 32mm.
CAT# ST-1079 $1.50 each

20 VISIT OUR WEBSITE - WWW.ALELELECTRONICS.COM
### SOLDER / 0.25" QC TERMINALS

<table>
<thead>
<tr>
<th>CAT#</th>
<th>DESCRIPTION</th>
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<td>SPST, on-off</td>
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<td>STS-95</td>
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<td>$2.45</td>
<td>$2.20</td>
<td></td>
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<td>STS-96</td>
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<td>$2.30</td>
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<td>STS-100</td>
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<td>STS-98</td>
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<td>STS-102</td>
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### SCREW TERMINALS

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<td>STS-57</td>
<td>SPDT, on-on</td>
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<td>STS-58</td>
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<td>STS-89</td>
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<td>STS-79</td>
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<td>$3.05</td>
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<tr>
<td>STS-80</td>
<td>DPDT, (on)-off-(on)</td>
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<tr>
<td>STS-70</td>
<td>4PDT, on-on</td>
<td>$3.95</td>
<td>$3.75</td>
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<tr>
<td>STS-71</td>
<td>4PDT, on-off-on</td>
<td>$3.85</td>
<td>$3.65</td>
<td></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

**CAT# SBT-2**

85¢ each

10 for $1.55 each • 100 for $1.35 each

### STANDARD TOGGLE

15/32” threaded mounting bushing

### 15/20A TOGGLE SWITCHES

Heavy-duty, toggle switches rated 20A @ 125Vac / 15A @ 250Vac.

STS-70 and STS-71 are rated 15A @ 125Vac / 10A @ 250Vac.

**Note:** Parentheses in DESCRIPTION, ie, (on)-off, indicates a momentary-on position.

### SPST ON-OFF TOGGLE SWITCH

- **Solder terminals:**
- **Screw terminals:**

**CAT# STS-20** $1.50 each

### SPDT 20A ON-ON UL

E-switch, LAMB ST-1 #ST143D00. Standard SPDT toggle switch with 0.25" QC/solder terminals.12mm threaded bushing (M12x1). 19.5mm toggle handle. E149579. cULus.

Rating: 20A/15A 125/277Vac, 2HP 125-277Vac.

**CAT# STS-143** $3.85 each

50 for $3.50 each

### SPDT ON-OFF TOGGLE SWITCH

- With screw terminals:
- With solder terminals:

**CAT# STS-136** $1.65 each

10 for $1.55 each • 100 for $1.35 each

### DUAL SPST TOGGLE SWITCH

Rated 3 Amps @ 125 Vac. Looks like a DPST toggle switch, but it is actually two separate single pole switches. When one is open, the other is closed. Solder terminals.

**CAT# STS-20** $1.50 each

### SPST ON-OFF TOGGLE SWITCH W/ PUSH ON TERMINALS

Standard SPST On-Off toggle switch with 0.25" QC terminals. 0.45" long toggle. Rated: 6A 125Vac/3A 250Vac. M12x0.75 threaded mounting bushing.

**CAT# STS-135** $1.55 each

10 for $1.45 each • 100 for $1.25 each

### SPST ON-OFF TOGGLE SWITCH W/ WIRE LEADS

Standard SPST On-Off toggle switch prepped with two 5" wire leads. 0.45" long toggle.

**CAT# STS-137** $1.65 each

10 for $1.55 each • 100 for $1.35 each

### TOGGLE SWITCH COVER

For 15/32” BUSHING

**High-Reliability Toggles**

### APEM 12146A SERIES

toggle switches specially manufactured for defense, telecommunications and other industrial applications. Standard size toggle handle with matte-black finish on toggle, bushing and hardware. 15/32” threaded bushing. Gold-plated, epoxy-sealed solder terminals. Gold-plated, silver contacts rated 4A / 30Vdc.

**CAT# STS-143** $6.50 each

<table>
<thead>
<tr>
<th>New Item</th>
</tr>
</thead>
</table>

### APEM # 12146AD2GK

**CAT# STS-133** $6.50 each

<table>
<thead>
<tr>
<th>Reduced Price</th>
</tr>
</thead>
</table>

### APEM# 12146AD2GK-3V

2-pole, three-position, on-on-on. Toggle lever locks in all 3 positions. Switching pattern - see online document.

**CAT# STS-134** $12.95

$4.75 each • 10 for $4.25 each

### HIGH-RELIABILITY TOGGLES

### APB 121646A SERIES

**Spdt On-Off Toggle Switch with Screw Terminals. 0.45” long toggle. Rated: 6A 125Vac/3A 250Vac. M12x0.75 threaded mounting bushing.**

**CAT# STS-136** $1.65 each

10 for $1.55 each • 100 for $1.35 each

### APEM 12146AD2GK

**CAT# STS-133** $6.50 each

<table>
<thead>
<tr>
<th>New Item</th>
</tr>
</thead>
</table>

### APEM# 12146AD2GK-3V

2-pole, three-position, on-on-on. Toggle lever locks in all 3 positions. Switching pattern - see online document.

**CAT# STS-134** $12.95

$4.75 each • 10 for $4.25 each

### KNIFE SWITCH


Base is 75 x 12 x 9mm high. Two mounting holes on 46mm centers.

**CAT# SWS-10** $2.25 each

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.

<table>
<thead>
<tr>
<th>STYLE</th>
<th>AMPS</th>
<th>TERM.</th>
<th>MFG. #</th>
<th>CAT#</th>
<th>PRICE</th>
<th>10</th>
<th>100</th>
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<tbody>
<tr>
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<td>0.25&quot;</td>
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<td>SMS-226</td>
<td>1.10</td>
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<tr>
<td>B</td>
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<td>SMS-299</td>
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<td>0.75</td>
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<td>0.25&quot;</td>
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<td>SMS-222</td>
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<td>1.35</td>
<td>1.20</td>
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<tr>
<td>C</td>
<td>10</td>
<td>0.25&quot;</td>
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<td>SMS-223</td>
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<td>1.35</td>
<td>1.20</td>
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<td>6</td>
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</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>
<th>10</th>
<th>100</th>
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<td>SMS-365</td>
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<td>SMS-357</td>
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</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 85¢ each • 10 for 70¢ each

<table>
<thead>
<tr>
<th>STYLE</th>
<th>MFG. #</th>
<th>CAT#</th>
<th>PRICE</th>
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<td>SMS-372</td>
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<td>0.55</td>
<td>0.45</td>
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</tbody>
</table>

KEY SWITCHES

Two-position, on-on, S.P.D.T. key-switch. Key removable in both positions. 90° range. 0.86" dia. bezel. 5/8" threaded bushing mount, up to 1/8" panel thickness. 1.2" behind-panel depth. Solder-lug terminals. Includes two keys.

CAT # KSW-50 $4.00 each 10 for $3.50 each

Semco. High quality, round tumbler type switch. S.P.S.T momentary-ON. Includes two keys. Key removable in off position only. Fits in 0.75" dia. hole. Two post style terminals.

CAT # KSW-35 $3.50 each 10 for $3.20 each

Two-position, on-on, S.P.D.T. key-switch. Key removable in both positions. 90° range. 0.86" dia. bezel. 5/8" threaded bushing mount, up to 1/8" panel thickness. 1.2" behind-panel depth. Solder-lug terminals. Includes two keys.

CAT # KSW-50 $4.00 each 10 for $3.50 each

Semco. High quality, round tumbler type switch. S.P.S.T momentary-ON. Includes two keys. Key removable in off position only. Fits in 0.75" dia. hole. Two post style terminals.

CAT # KSW-35 $3.50 each 10 for $3.20 each

ON-OFF keyswitch rated 1A 120Vac. 11mm dia. threaded mounting bushing. Chrome bezel. Includes two keys. Key removable in off-position only. 90° rotation. All keyed alike. Ace-type key (round body). Solder pot style terminals.

CAT # KSW-33 $2.50 each

ON-OFF keyswitch rated 1A 120Vac. 11mm dia. threaded mounting bushing. Chrome bezel. Includes two keys. Key removable in off-position only. 90° rotation. All keyed alike. Solder lug terminals.

CAT # KSW-12 $3.50 each
ROCKER SWITCHES

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. TUV. 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
- 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

10 for $1.10 each

DPST ON-OFF RED ROCKER SWITCH
D.P.S.T., OFF/ON, rocker switch red rocker. Same specs and dimensions as our lighted rocker switch, CAT# LRS-42, but is not lighted. Rated 20A @ 125Vac. Snap-mounts in 23 x 27mm (0.90" x 1.07") rectangular cut-out.

CAT # RS-20 $1.00 each
10 for 85¢ each

SPDT MINIATURE ROCKER SWITCH

CAT# RS-163 $1.10 each • 10 for 95¢ each

DPST ROCKER SWITCH
SMK #BZ35. D.P.S.T., OFF/ON, rocker switch. Matte-black bezel (21 x 15mm) and rocker. Rocker has embossed white symbols – and O which appear on edge of rocker. Snap-mounts into 20 x 13mm cut out. Rated 6A@125Vac. 0.185" QC/solder terminals. UL, CSA.

CAT# RS-189 65¢ ea. • 100 for 50¢ ea.

ON-OFF MINI ROCKERS
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¢ ea.

MINIATURE SPDT ROCKERS
Eleidis # 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

12V LIGHTED ROCKERS

12V LIGHTED ROCKERS, ROUND
S.P.S.T., on-off. Round body. Rated 16A (except LRS-29G). 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 65¢ each

12 VDC LED LIGHTED ROCKERS (OVAL)
S.P.S.T., on-off, surface-mount rocker switch with LED indicators. Built-in resistors for 12 Vdc operation. Surface mount switch with threaded bushing with nut, conveniently mounts in 0.48" diameter hole. Matte-black oval switch with LED on one side of rocker. Above panel dimensions are 1.22" x 0.78" x 0.63" high. 0.25" qc / solder terminals. Rated 20 A / 12 Vdc. Available with LEDs in 4 colors, red (R), green (G), amber (A), and blue (B).

CAT# LRS-30X (X=R, G, A, AQ, B) $2.20 ea.

12V incandescent S.P.S.T. rocker. 0.65" diameter bezel, 0.45" diameter. Red.Snap-mounts in 0.59" dia. hole. Rated 6 amps. Solder loop terminals.

CAT# LRS-31 $1.95 each


12V LIGHTED ROCKERS

12V LIGHTED ROCKERS

12V LIGHTED ROCKERS

12V LED LIGHTED ROCKERS

12V LED LIGHTED ROCKERS

ON-OFF 12V LIGHTED ROCKER SWITCH
S.P.S.T. rocker switch with red 12V lighted rocker. Rated 20A / 12V. Snap-mounts in 1.05" x 0.45" cut out. 0.25" qc/solder terminals.

CAT# LRS-20 $1.75 each

ORDER TOLL FREE 1-800-826-5432
**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. 0.025" qc/ solder terminals.
CAT# LRS-51 $1.00 each • 10 for 65¢ each

**120V LIGHTED ROCKERSWITCHES**
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.
CAT# LRS-40 $1.95 each

**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
<table>
<thead>
<tr>
<th>Height</th>
<th>CAT#</th>
<th>Price</th>
<th>100</th>
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<tr>
<td>4mm</td>
<td>TSW-64</td>
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<tr>
<td>12mm</td>
<td>TSW-612</td>
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**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 99¢
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

**TINY SURFACE-MOUNT TACTILE PUSHBUTTON**
Alps #SKPRAEA010 SPST, normally-open surface-mount pushbutton. 7.5 x 7.8 x 6.5mm high. Positive, heavy-force tactile operation. Contact rating: 50mA, 16VDC. RoHS. Cut tape packaging.
CAT# MPB-150 2 for $1.00
10 for 40¢ each • 100 for 30¢ each

**MOMENTARY PUSHBUTTON SWITCHES**
**TACTILE SWITCH**
Alps #SKEYAB028A. 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 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 0.122” 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 bushing. 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 bushing 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 bushing mounts in panels up to 1/2” thick. Solder-loop terminals. 
4 A / 125 Vac CAT# PB-142 $3.20 each 
10 A / 125 Vac CAT# PB-147 $4.00 each

MOMENTARY PUSHBUTTONS
(On)-(On), heavy-duty pushbutton 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 terminals. 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

NORMALY-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 bushing with nut. Fits panels up to 0.8” thick. 0.9” dia. opaque blue plastic plunger. 
CAT# PB-9B $2.00 each

30 DAY MONEY-BACK GUARANTEE 25
**FAST FRIENDLY SERVICE**

**GIANT PUSH-BUTTON SWITCHES WITH 12VDC LIGHT**

New Item

High-visibility red or green domed pushbutton switches with replaceable 12Vdc wedge-base led lamp. Ideal for games and displays, the momentary SPDT snap-action switch provides a "snappy" tactile action with an audible click. Switch rated 5 Amps @ 125/250 Vac.

**Dimensions:**
- Dome (plunger): 3.07" (78mm) diameter
- Black bezel: 3.8" (96mm) diameter
- Required recessed mounting hole 3.40" (86mm) diameter x 0.40" (10mm) depth.
- Maximum panel thickness 1.25" (32mm).
- Threaded bushing 0.92" (24mm) diameter.

**Red**

CAT# LPS-100R $11.00 each

10 for 90¢ each • 100 for 78¢ each

**Green**

CAT# LPS-100G $11.00 each

10 for 90¢ each • 100 for 78¢ each

**SPST MOMENTARY PUSHBUTTON**

S.P.S.T., normally-open, momentary pushbutton switch rated 3A/125V. 10mm diameter red button. 14.5mm 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.

**Normally-open**

- Red: PB-160 $1.75
- Blue: PB-160BL $1.75
- Green: PB-160G $1.75
- Yellow: PB-160Y $1.75

**Normally-closed**

- Red: PB-145 $1.75
- Blue: PB-145BL $1.75
- Green: PB-145G $1.75
- Yellow: PB-145Y $1.75

**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

**MINI SPDT**

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

**CAT# MBP-176**

$2.85 each

**PUSH-MOUNT ON/OFF SWITCHES**

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

**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 • 100 for 85¢ each

**PUSH-PUTTON 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 pigtails. UL listed. For moisture-resistant cap/nut see CAT# WPC-3.

**CAT# PB-13**

$1.85 ea. • 100 for $1.50 ea.

**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

**NEW ITEM**

**LIGHTED PUSH-PUTTON SWITCHES**

**MOYMENTARY LIGHTED PUSH-PUTTON 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

**MINI SPDT**

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# MBP-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

ALARM SWITCHES

SPDT
Can be used on normally open or normally closed loop systems. Switch measures 2” long X 3/8”.
CAT# MS-7 $6.00 each
10 for $5.50 each

PRESS-FIT MAGNET SWITCH
Press-fit into 3/8” hole. Ideal for windows and doors. For normally closed systems. 0.75” operating gap. U.L. listed.
CAT# MS-11 $3.50 per set
10 sets for $32.50

STANDARD MAGNETIC PROXIMITY SWITCH
For closed loop alarm systems. Switch is closed when magnet is near. Cover hides screw terminals. Off-white switch and magnet. UL.
CAT# MS-14 $2.75 ea. • 10 for $2.50 ea.

REED SWITCHES
Magnetically-operated reed switches. Hermetically-sealed glass body.

NORMALLY-OPEN
Coto RI-01C. Body: 1.8mm dia. x 13.5mm long
CAT# RSW-41 $1.25 each
10 for $1.10 each • 100 for 95¢ each
ORD2201
1 Amp rating. 2.75mm dia. x 21.0 long
CAT# RSW-43 2 for $1.50

S.P.D.T.
Hamlin. Body: 4.7mm diameter x 33mm long.
CAT# RSW-40 $1.50 ea. • 10 for $1.25 ea.

ROTOR SWITCHES

ENCLOSED BODY
6mm diameter flattened shaft. 9mm threaded bushing. 10Amp/125VAC, 6 Amp/250V  T85. Plastic body, shaft and bushing. Body, 28.5mm diameter x 11.5mm. Solder-lug terminals.
1-POLE, 2-POSITION
CAT# RSW-210 $1.65 each
1-POLE, 3-POSITION
CAT# RSW-310 $1.70 each
1-POLE, 4-POSITION
CAT# RSW-410 $1.80 each
1-POLE, 6-POSITION
CAT# RSW-610 $1.95 each

WAFER STYLE
6mm diameter knurled, split shaft. 9mm dia. threaded bushing. 0.5A/125Vac.
2-POLE, 6-POSITION
Solder-lug terminals.
CAT# RSW-260 $1.90 each
1-POLE, 11-POSITION
PC pin terminals.
Can be wrapped and soldered.
CAT# RSW-39 $1.45 each
1-POLE, 12 POSITION Solder-lug terminals.
CAT# RSW-112 $2.00 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

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

ORDER TOLL FREE 1-800-826-5432 27