

## KEY FEATURES

- Miniaturized snap acting pushbutton
- Contacts with silver inlay (high power) or gold inlay (low current, SPDT)
- SPDT and DPDT
-50,000 cycles for gold plating
- 25,000 cycles for silver plating
- Tactile and audible feedback
- Wire lug or PC board terminals
- Contact rating up to:
1.5A @ 250VAC (EMEA)

3A @ 125VAC (North America)

- Hardware included
- Boot Seals available
- Multiple actuator buttons available in both color and size


## APPLICATIONS

The new switch is well suited for designs requiring human interface via pushbutton style switches including

- Industrial equipment
- Medical equipment
- Instrumentation
- Communication equipment
- Control equipment


## STANDARDS

- RoHS Directive 2002/95/E compliant


## SAMPLES NOW AVAILABLE

## Introducing <br> ALCOSWITCH Blue Series Pushbutton

The new ALCOSWITCH Blue Series pushbutton is based on an innovative snap-action mechanism that produces an extremely fast switching moment. This high level of dynamics not only reduces arcing and bounce but it also results in a high number of duty cycles. The new series comprises versions with SPDT and DPDT configurations and can be ordered with push on / push off or momentary function. The actuator cap of the push-button switch is available in many colors and sizes.

## OPERATING EFFICIENCY

This miniature pushbutton is easily integrated into compact control/front panels. Despite its small case dimensions, the actuator gives a clear reliable feedback that confirms proper operation. At $265^{\circ} \mathrm{C}$ the solder heat resistance of the ALCOSWITCH Blue Series pushbuttons is high enough for efficient, RoHS compliant wave soldering technology.

## TYPICAL PERFORMANCE CHARACTERISTICS

- Number of poles:
- Contact Timing:
- Switch Functions:
- Contact Rating:
- Gold Contact:
- Electrical life (pushbutton only):
- Contact resistance:
- Insulation resistance
- Dielectric strength
- Actuator force
- Actuator travel
- Life Expectancy:

1 to 2
Break-before-make
ON-ON, ON-(ON)
1.5A @ 250VAC (EMEA)

3A @ 125VAC (North America)
60mA @ 30VDC
Gold: 50,000 cycles
Silver: $\quad 25,000$ cycles
Gold: 20mOhms max. @ 100mA, 2-4VDC Silver: 10mOhms max. @ 1A, 2-4 VDC
1,000 MOhms min. @500VDC
1,000V for 1 minute
Single pole - 7 to 14 oz. (200 to 400 grams) Double pole - 14 to 25 oz. (400-700 grams)
Momentary .040" (1.02)
Push on/push off .098" (2.49)
Up to 50,000 actuations

## ENVIRONMENTAL SPECIFICATIONS

| - Operating temperature: | $-20^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |
| :--- | :--- |
| - Storage temperature: | $-40^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |

MATERIALS

- Contacts:
- Actuator:
- Terminals:
- Terminal seal:
- Case:
- Frame:

Brass with silver inlay or gold plating
Brass nickel plated
Brass with silver inlay or gold plated Epoxy
Epoxy resin UL94V-O
Stainless steel
te.com/products/switches


DPDT Wire Lug Silver

PRODUCT KEY


PC Printed Circuit Board
Blank Wire lug

PRODUCT OFFERING

| ALCOSWITCH Part Number | TE Part Number | Poles | Throws | Function | Connected Terminals |  | Terminal | Plating/Inlay |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPS1004D | 1977737-1 | 1 | 2 | On/On | 3-2 | 3-1 | Wire lug | gold |
| MPS1004F | 1977737-2 | 1 | 2 | On/(On) | 3-2 | 3-1 | Wire lug | gold |
| MPS2004N | 1977737-3 | 2 | 2 | On/On | 3-2, 6-5 | 3-1, 6-4 | Wire lug | gold |
| MPS2004R | 1977737-4 | 2 | 2 | On/(On) | 3-2, 6-5 | 3-1, 6-4 | Wire lug | gold |
| MPS1004DPC | 1977738-1 | 1 | 2 | On/On | 3-2 | 3-1 | PC | gold |
| MPS1004FPC | 1977738-2 | 1 | 2 | On/(On) | 3-2 | 3-1 | PC | gold |
| MPS2004NPC | 1977738-3 | 2 | 2 | On/On | 3-2, 6-5 | 3-1, 6-4 | PC | gold |
| MPS2004RPC | 1977738-4 | 2 | 2 | On/(On) | 3-2, 6-5 | 3-1, 6-4 | PC | gold |
| MPS103D | 1977739-1 | 1 | 2 | On/On | 3-2 | 3-1 | Wire lug | silver |
| MPS103F | 1977739-2 | 1 | 2 | On/(On) | 3-2 | 3-1 | Wire lug | silver |
| MPS2O3N | 1977739-3 | 2 | 2 | On/On | 3-2, 6-5 | 3-1, 6-4 | Wire lug | silver |
| MPS203R | 1977739-4 | 2 | 2 | On/(On) | 3-2, 6-5 | 3-1, 6-4 | Wire lug | silver |
| MPS103DPC | 1977740-1 | 1 | 2 | On/On | 3-2 | 3-1 | PC | silver |
| MPS103FPC | 1977740-2 | 1 | 2 | On/(On) | 3-2 | 3-1 | PC | silver |
| MPS203NPC | 1977740-3 | 2 | 2 | On/On | 3-2, 6-5 | 3-1, 6-4 | PC | silver |
| MPS203RPC | 1977740-4 | 2 | 2 | On/(On) | 3-2, 6-5 | 3-1, 6-4 | PC | silver |

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FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL ABD122N-
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