

Introducing

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.

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

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°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: 1 to 2

Contact Timing: Break-before-make
 Switch Functions: ON-ON, ON-(ON)
 Contact Rating: 1.5A @ 250VAC (EMEA)
 3A @ 125VAC (North America)

• Gold Contact: 60mA @ 30VDC

• Electrical life (pushbutton only): Gold: 50,000 cycles Silver: 25,000 cycles

• Contact resistance: Gold: 20mOhms max. @ 100mA, 2 - 4VDC

Silver: 10mOhms max. @ 1A, 2 - 4 VDC

• Insulation resistance 1,000 MOhms min. @500VDC

• Dielectric strength 1,000V for 1 minute

• Actuator force Single pole - 7 to 14 oz. (200 to 400 grams)

Double pole - 14 to 25 oz. (400-700 grams)

• Actuator travel Momentary .040" (1.02)

Push on/push off .098" (2.49)

• Life Expectancy: Up to 50,000 actuations

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: -20°C to +80°C
 Storage temperature: -40°C to +80°C

MATERIALS

Contacts: Brass with silver inlay or gold plating

Actuator: Brass nickel plated

• Terminals: Brass with silver inlay or gold plated

• Terminal seal: Epoxy

• Case: Epoxy resin UL94V-0

• Frame: Stainless steel

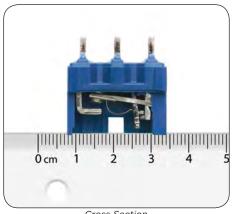
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Cross Section



SPDT PCB Gold



DPDT Wire Lug Silver

PRODUCT KEY

	Typical Produ	uct Key	MPS	1	004	D	PC
Type		-		T		T	T
MPS	Miniature pushbutton snap a	ction					
Numb	er of poles						
1 2	Single pole Double pole						
Conta	ct rating						
004 03	60mA 30v DC 3A 125V AC						
Functi	on						
D N	Push-on/Push-off F 2 Pole Push-on/Push-off R		omentary momenta	ry			
Termin	nals						

PRODUCT OFFERING

Wire lug

PC Blank Printed Circuit Board

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
MPS203N	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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MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

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