

MPS Series, Snap Action

Features

- Wire lug or pc terminals
- Customer selected actuator cap size and color
- Entire series epoxy sealed terminals
- Actuator guards, decorative hardware, and silicone boot seals available



Typical performance characteristics

Contact configuration..... SPDT, DPDT
 Contact timing..... Break-Before-Make
 Contact rating max..... 3 A @ 125 VAC
 Electrical life..... 50,000 cycles
 Contact resistance, initial..... 10 mOhms max.
 Insulation resistance..... 1,000 MOhms min.
 Dielectric strength..... 1,500 Volts rms @ sea level
 Actuation force..... 200-700 gf
 Actuator travel..... momentary .04 (1.0mm)
 push on/off .098 (2.5mm)

Environmental specification

Operating temperature..... -15°C to +70°C
 Storage temperature..... -15°C to +70°C
 Solder heat resistance..... wave solder capable to 265°C
 and hand solder
 Seal..... epoxy sealed terminals

Material specifications

Contacts..... phosphor bronze silver clad
 Actuator..... copper alloy nickel plated
 Terminals..... copper alloy silver plated
 Case..... epoxy resin
 Frame..... stainless steel
 Support Bracket..... brass tin plated
 RoHS Directive 2002/95/EC..... compliant

Product key		Typical product key		MPS	1	03	F	PC	04
Type									
MPS	Pushbutton Switches, Snap Action, 3Amp								
Poles									
1	1 pole			2	2 poles				
Contact									
03	3 A @125 VAC								
Function									
D	single pole			N	double pole				
F	Push-On/Push-Off momentary			R	Push-On/Push-Off momentary				
Terminals									
blank	wire lug			RA	right angle PC terminal				
PC	printed circuit board			WW	wire wrap or extended PC				
PCV	printed citrcuit board, with support								
Material									
04	RoHS compliant								

MPS Series, Snap Action (Continued)

Function



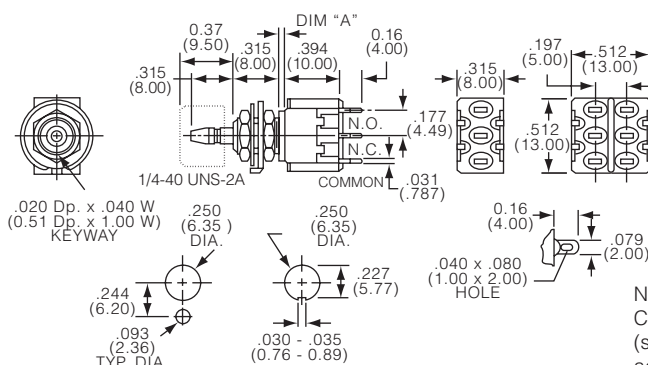
Fct.	Poles	On	On	On	On
D	1	On	On	3-2	3-1
F	1	On	(On)	3-2	3-1
N	2	On	On	3-2, 6-5	3-1, 6-4
R	2	On	(On)	3-2, 6-5	3-1, 6-4

Off indicates a mechanical position with no electrical connection
(On) indicates momentary connection

Terminals



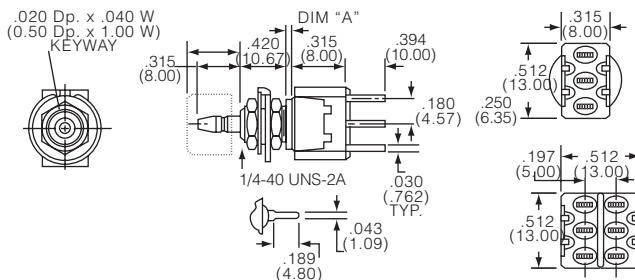
blank wire lug



Funct	Action	Dim A
D	1p, push-On/Off	2.54 (.100)
F	1p, momentary	1.016 (.040)
N	2p, push-On/Off	2.54 (.100)
R	2p, momentary	1.016 (.040)

Note: hardware included with switches. Caps not supplied, order separately (see cap model C22 and C23 under accessories)

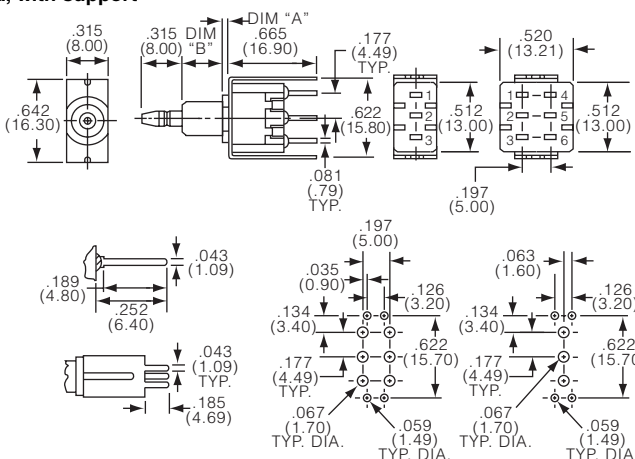
PC printed circuit board



Funct	Action	Dim A
D	1p, push-On/Off	2.54 (.100)
F	1p, momentary	1.016 (.040)
N	2p, push-On/Off	2.54 (.100)
R	2p, momentary	1.016 (.040)

Caps not supplied, order separately (see cap model C22 and C23 under accessories)

PCV printed circuit board, with support

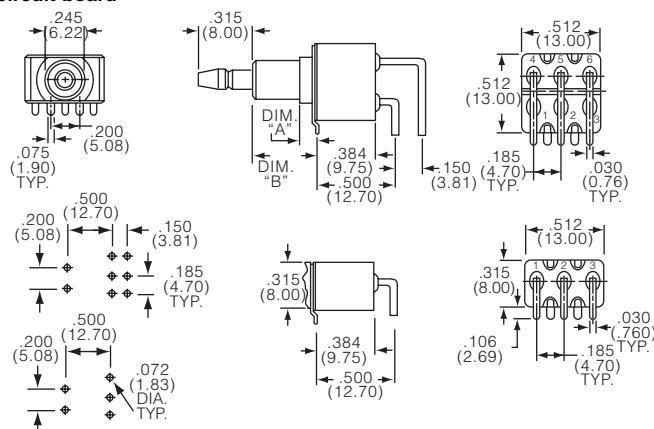


Funct	Dim A	Dim B
D	2.03 (.080)	8.00 (.315)
F	1.01 (.040)	7.49 (.295)
R	1.01 (.040)	7.49 (.295)

Caps not supplied, order separately (see cap model C22 and C23 under accessories)

Pushbutton Switches

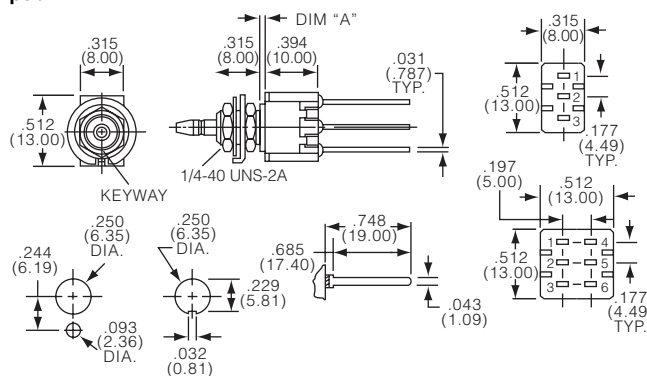
RA right angle, printed circuit board



Fnc't	Dim A	Dim B
D	2.54 (.100)	10.7 (.432)
F	1.52 (.060)	9.24 (.364)
N	2.54 (.100)	10.7 (.432)
R	1.52 (.060)	9.24 (.364)

Caps not supplied, order separately (see cap model C22 and C23 under accessories)

WW wire wrap, extended pcb



Funct	Action	Dim A
F	1p, momentary	1.016 (.040)
N	2p, push-On/Off	2.54 (.100)
B	2p, momentary	1.016 (.040)

Caps not supplied, order separately (see cap model C22 and C23 under accessories)

Product key	Poles	Contact	Function	Terminals	Material	Part Number
MPS103D04	single pole	3 A	Push-On/Push-Off	solder lug	RoHS	1825092-1
MPS103DPC04		@125 VAC		printed circuit board	compliant	1825399-1
MPS103DPCV04				PCB, with support		1825401-1
MPS103DRA04				right angle PCB		1825400-1
MPS103F04			momentary	solder lug		1825092-2
MPS103FPC04				printed circuit board		1825399-2
MPS103FPCV04				PCB, with support		1825401-2
MPS103FRA04				right angle PCB		1825400-2
MPS103FWW04				wire wrap		1825402-1
MPS203N04	double pole		Push-On/Push-Off	solder lug		1825092-3
MPS203NPC04				printed circuit board		1825399-3
MPS203NPCV04				PCB, with support		1825401-3
MPS203NRA04				right angle PCB		1825400-3
MPS203R04			momentary	solder lug		1825092-4
MPS203RPC04				printed circuit board		1825399-4
MPS203RPCV04				PCB, with support		1825401-4
MPS203RRA04				right angle PCB		1825400-4
MPS203RWW04				wire wrap		1825402-2