DS Series
Interlock Pushbutton Switches

Features/Benefits

- ***Snap-in mounting***
- ***Reliable snap action mechanism***
- ***Latch or momentary***
- ***RoHS compliant***
- ***Halogen free material***

Typical Applications

- ***Interlock switch***
- ***Detection switch***
- ***Circuit interrupt***



UL61058-1

Specifications

FUNCTION: Single pole double throw / Double pole double throw
MOUNTING TYPE: Snap in style

Electrical

ELECTRICAL LIFE: see ratings chart below
DIELECTRIC STRENGTH: 1500 V (50-60 Hz @ sea level)
INSULATION RESISTANCE: 100 M Ω min.
INITIAL CONTACT RESISTANCE: 30 milli-ohms

Materials

HOUSING, COVER, ACTUATOR, KNOB: PA 66/6 halogen free, UL94V-0
NO & NC FIXED TERMINALS: Copper alloy
COMMON TERMINALS: Copper alloy, silver plate
CONTACTS: Silver alloy / F5 rating gold plated over silver alloy
RETURN SPRINGS: Stainless steel

Operating Environment

OPERATING TEMPERATURE: -40˚C to +85˚C

NOTE: Specifications and materials listed above are for switches with standard options.
For information on specific and custom switches, please contact Customer Service.

J

Snap-acting

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box.

D S

Designation
DS DS Series

Number of Poles
1 SPDT
2 DPDT

Rating
F5 0.1 (0.5)A @ 125/250 V AC 50/60 Hz 50E3
0.1A G.P. @ 125/250 V AC 50/60 Hz 50E3
F7 0.1 (0.5)A @ 125/250 V AC 50/60 Hz 10E4
0.1A G.P. @ 125/250 V AC 50/60 Hz 10E4
D6 10 (4)A @125/250 V AC 50/60 Hz 50E3
10A G.P. @ 125 / 250 V AC 1/3HP @ 125/250 V AC 50/60 Hz 10E3
D7* 16A G.P. @125/250 V AC 3/4HP 125/250 V AC 50/60 Hz 10E3
16 (6) A @125/250 V AC 50/60 Hz 10E3
* Note - 16A version has Q3 terminals only

Actuator Style
A Momentary, Short button
B Momentary, Long button
C Momentary/Pulled out button (not available on D7 rating)

Terminals
Q1 4.8 x 0.5
Q2 4.8 x 0.8
Q3 6.3 x 0.8

Housing Color
NONE White
B Black

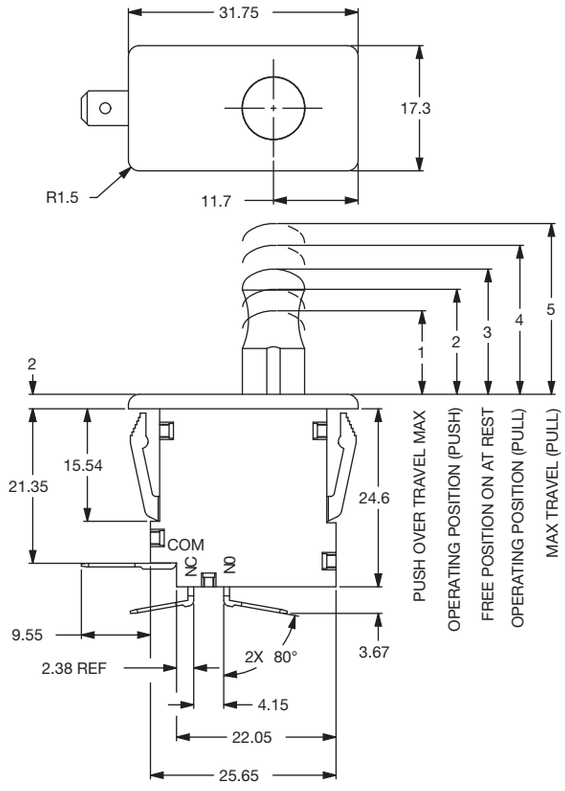
International Rating Symbols

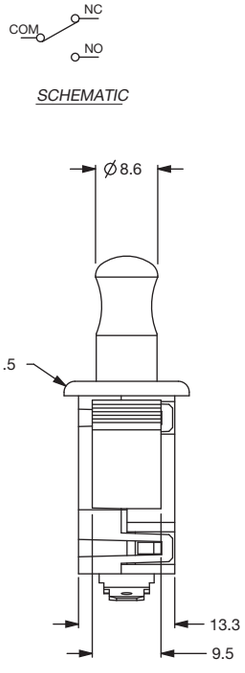
10E3	Cycles 10,000
10E4	Cycles 100,000
50E3	Cycles 50,000
10(4)	Current rating: First number represents resistive rating. Second number represents inductive (motor) rating
GP	General purpose rating UL1054

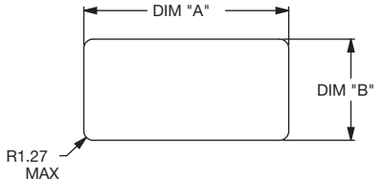
DS Series
Interlock Pushbutton Switches

NUMBER OF POLES

1 SPDT

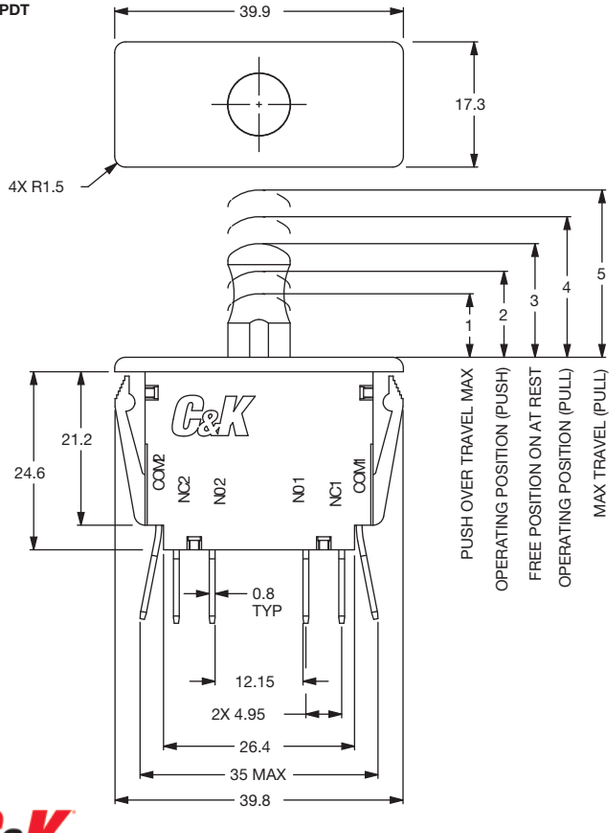


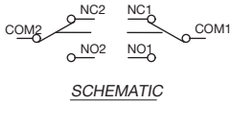


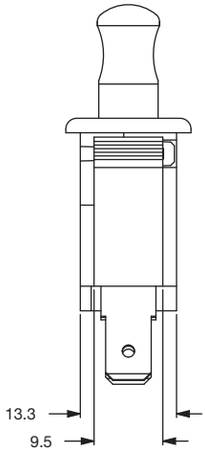


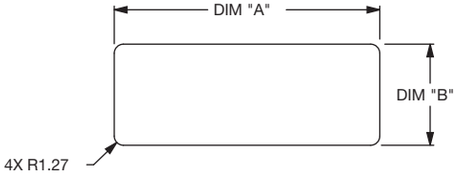
PANEL MOUNTING		
PANEL THICKNESS	DIM "A" mm	DIM "B" mm
1.14	28.32	13.97
2.54	28.58	13.97

2 DPDT









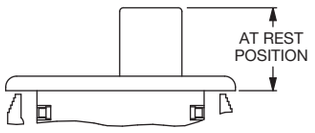
PANEL MOUNTING		
PANEL THICKNESS	DIM "A" mm	DIM "B" mm
1.14	36.70	13.97
2.54	36.96	13.97

Third Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

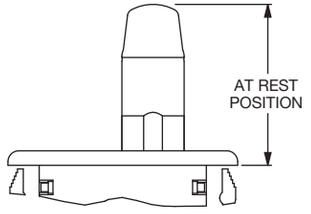
ACTUATOR STYLE / SPECIFICATIONS

A SHORT BUTTON



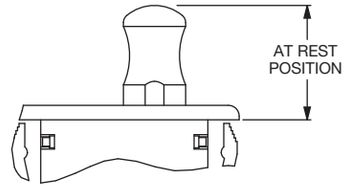
SHORT BUTTON

B LONG BUTTON

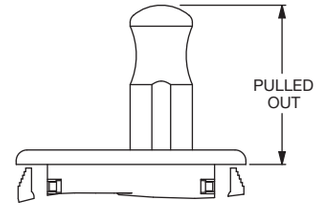


LONG BUTTON

C MOMENTARY/PULLED OUT



FREE POSITION



PULLED OUT POSITION

SPDT Specification

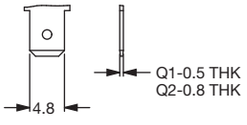
BUTTON STYLE	OVER TRAVEL POSITION PUSH MAX	OVER TRAVEL POSITION PULL MAX	OPERATING POSITION PUSH	OPERATING POSITION PULL	FREE POSITION AT REST	OPERATING FORCE	
A	3.20	NA	8.90 ± 1.25	NA	11.45 ± 0.75	425 gf	
B	10.15	NA	19.55 ± 1.25	NA	22.25 ± 0.75	425 gf	
C	13.20	24.90	16.75 ± 1.25	21.60 ± 1.25	19.30 ± 0.75	PUSH 385gf	PULL 475gf

DPDT Specification

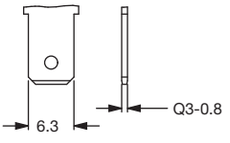
BUTTON STYLE	OVER TRAVEL POSITION PUSH MAX	OVER TRAVEL POSITION PULL MAX	OPERATING POSITION PUSH	OPERATING POSITION PULL	FREE POSITION AT REST	OPERATING FORCE	
A	3.20	NA	8.90 ± 1.25	NA	11.45 ± 0.75	680 gf	
B	10.15	NA	19.55 ± 1.25	NA	22.25 ± 0.75	680gf	
C	13.20	24.90	16.75 ± 1.25	21.60 ± 1.25	19.30 ± 0.75	PUSH 560gf	PULL 750gf

TERMINALS

Q1 4.8 x 0.5
Q2 4.8 x 0.8



Q3 6.3 x 0.8



Third Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change