

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



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

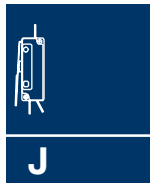
Materials

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

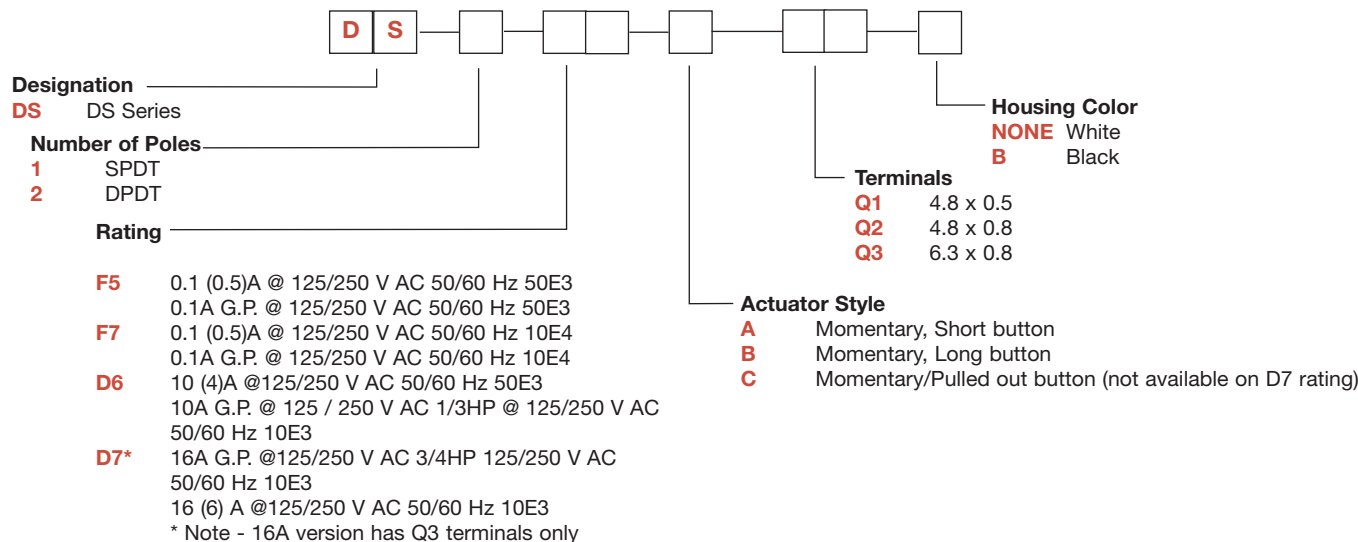
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, please contact Customer Service.



Snap-acting

Build-A-Switch

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



International Rating Symbols

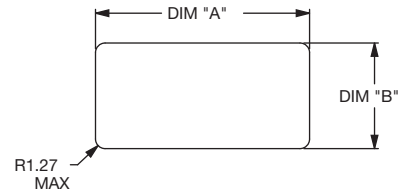
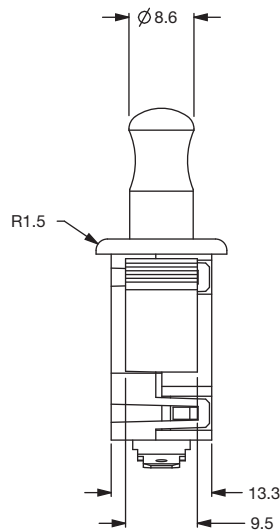
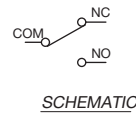
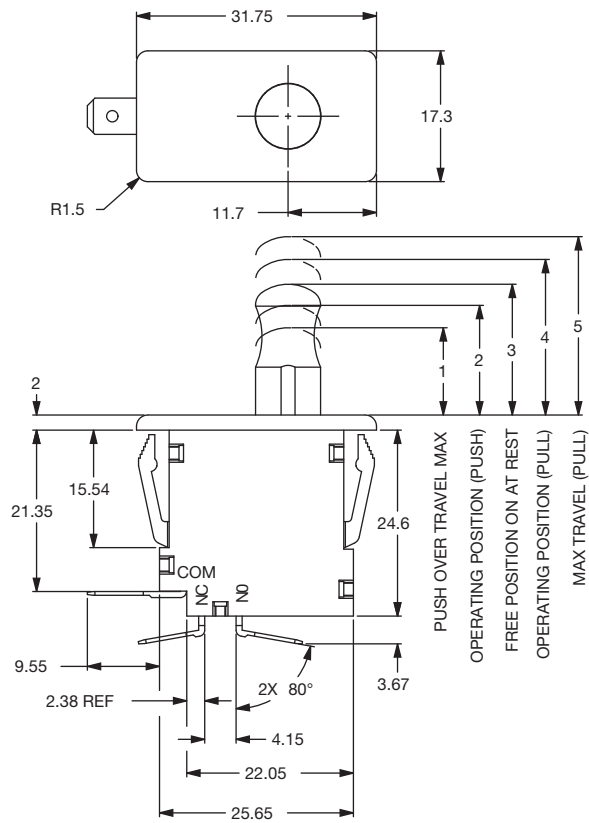
| | |
|-------|---|
| 10E3 | Cycles 10,000 |
| 10E4 | Cycles 100,000 |
| 50E3 | Cycles 50,000 |
| 10(4) | Current rating: First number represents resistive rating. Second number represents inductive (motor) rating |
| GP | General purpose rating UL1054 |



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NUMBER OF POLES

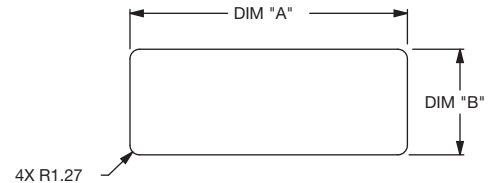
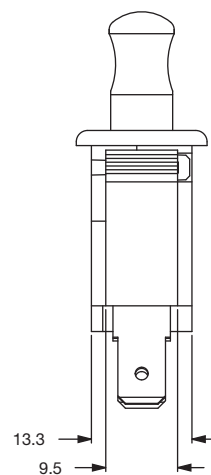
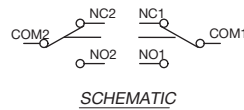
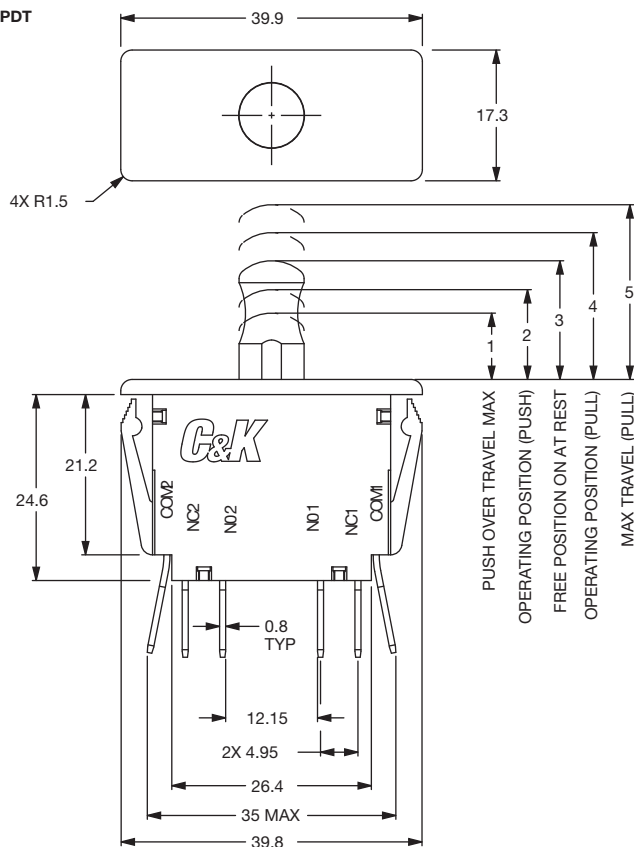
1 SPDT



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

Snap-acting

2 DPDT



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



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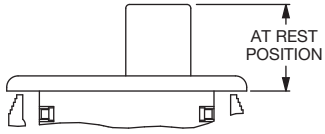
Dimensions are shown: mm
Specifications and dimensions subject to change

www.ck-components.com

DS Series Interlock Pushbutton Switches

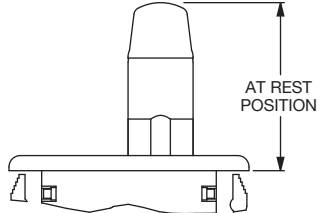
ACTUATOR STYLE / SPECIFICATIONS

A SHORT BUTTON



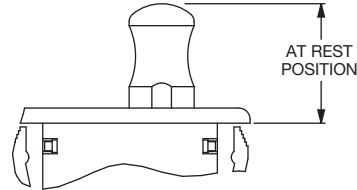
SHORT BUTTON

B LONG BUTTON

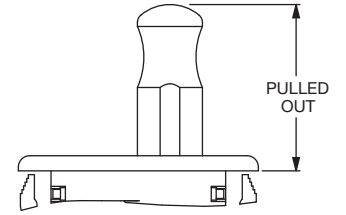


LONG BUTTON

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 |

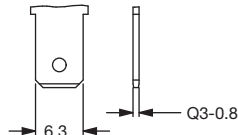
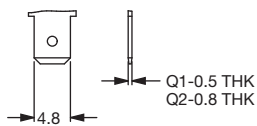


Snap-acting

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



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