

D3 Series

Miniature Snap-Action Switches



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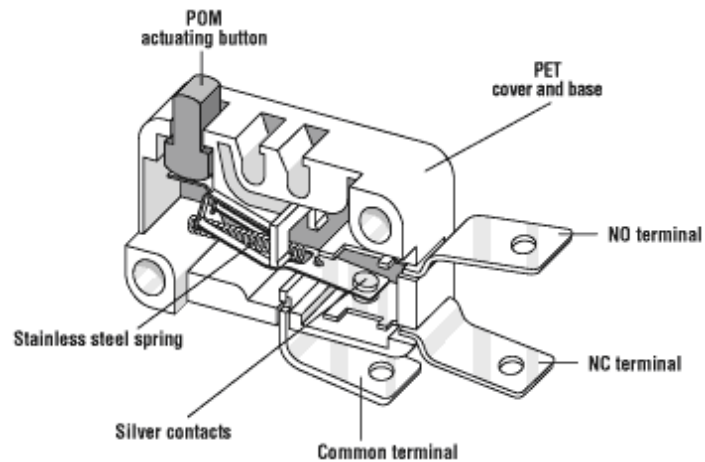
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Features

- Self-cleaning effect of wiping contact mechanism provides excellent reliability
- Suitable for low actuation speeds
- Highly flexible, due to two mounting positions and a variety of auxiliary actuators
- Wide variety of terminal types
- >3mm (0.12") contact gap available



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Electrical Ratings

Switch Series	EN61058 Rating	UL1054 Rating	Electrical Life at Rated Load	
			According to EN (Min. Operations)	According to UL (Min. Operations)
D38	16(4)A, 250V~ 10(3)A, 400V~	16A, 125/250VAC, 1HP	50,000	6,000

To download a PDF of the **Cherry Switches Master Catalog**, [click here](#).



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Specifications

Electrical

Temperature Rating: -40° to +85°C

Flammability Rating: UL94V-O

Materials

Case: Polyethyleneterephthalate (PET)

Actuator: Polyacetal (POM)

Auxiliary Actuator: Stainless Steel; Nickel-Plated Steel

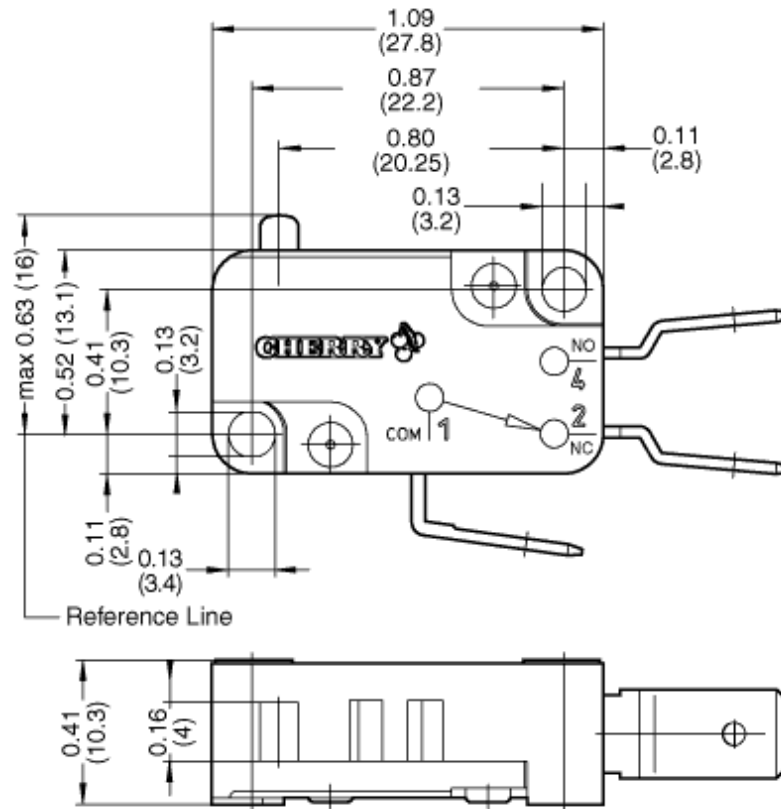
Terminals: Copper-Zinc

Contacts: Silver Cadmium Oxide

Approvals



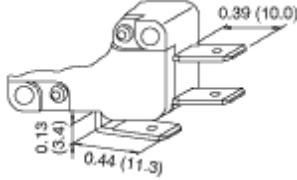
Dimensions

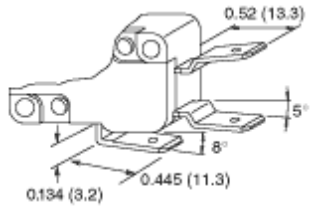




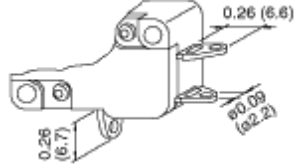
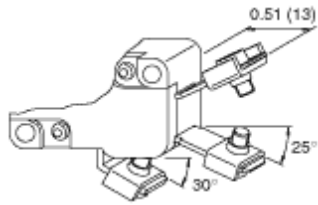


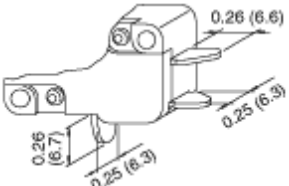
Inches (mm)

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Terminals

Order Code	Terminal Type	Dimensions inch (mm)	Detail (click for larger view)	Available for These Switches		
				Standard Force	Light Force	Contact Gap >0.12 in (3mm)
V1	QC (Quick Connect), Straight	0.248 x 0.031 (6.3 x 0.8)		—	—	yes

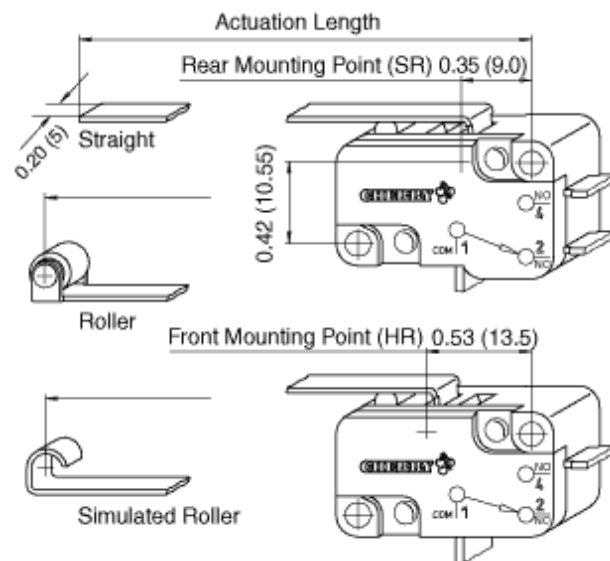
V3	QC, Dog Leg	0.248 x 0.031 (6.3 x 0.8)		yes	yes	yes
Q1	QC, Straight	0.189 x 0.031 (4.8 x 0.8)		—	—	yes
Q3	QC, Dog Leg	0.189 x 0.031 (4.8 x 0.8)		yes	yes	yes
C1	QC, Bifurcated, Straight	0.11 x 0.031 (2.8 x 0.8)		—	—	yes
C3	QC, Bifurcated, Dog Leg	0.11 x 0.031 (2.8 x 0.8)		—	—	yes
S8	Solder	see illustration at right		yes	yes	yes
W9	Screw	see illustration at right		yes	yes	yes

A8	Welding	see illustration at right		yes	yes	yes
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Actuators

Auxiliary Actuators



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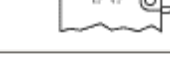

Actuator Specifications — Standard and Light Force


Actuator Type	Switch Type	Maximum Operating Force (cN)	Max. Pre-Travel inches (mm)	Operating Point* inches (mm)	Min. Over-Travel inches (mm)	Max. Movement Differential inches (mm)	Max. Rest Position inches (mm)	Actuation Length** inches (mm)
		D38						
AA		400	0.059 (1.5)	0.559/0.598 (14.2/15.2)	0.047 (1.2)	0.012 (0.3)	0.63 (16.0)	N/A
JA or LA		425	0.063 (1.6)	0.579/0.618 (14.7/15.7)	0.039 (1.0)	0.016 (0.4)	0.66 (16.8)	0.835 (21.2)
JD or LD		200	0.138 (3.5)	0.551/0.646 (14.0/16.4)	0.083 (2.1)	0.031 (0.8)	0.75 (19.1)	1.402 (35.6)
JL or LL		80	0.311 (7.9)	0.488/0.709 (12.4/18.0)	0.193 (4.9)	0.071 (1.8)	0.97 (24.6)	2.752 (69.9)
KA or MA		265	0.106 (2.7)	0.567/0.630 (14.4/16.0)	0.067 (1.7)	0.024 (0.6)	0.71 (18.0)	1.012 (25.7)
KD or MD		120	0.232 (5.9)	0.528/0.669 (13.4/17.0)	0.146 (3.7)	0.051 (1.3)	0.85 (21.6)	1.579 (40.1)
KL or ML		50	0.528 (13.4)	0.433/0.764 (11.0/19.4)	0.335 (8.5)	0.118 (3.0)	1.19 (30.1)	2.929 (74.4)

Note: All "J" and "K" type actuators are stainless steel.
J and L types are Standard Ratio; K and M types are High Ratio.
Forces and travel for Roller and Simulated Roller Types available upon request. Consult factory.

*Measured above reference line. Refer to dimensional drawing above.
**Actuation tolerance ± 0.031 inches (0.8mm)

Actuator Specifications — Contact Gap >0.12 inch (3mm)

Part No. Suffix	Actuator Type	Switch Type	Maximum Operating Force (cN)	Max. Pre-Travel inches (mm)	Operating Point* inches (mm)	Min. Over-Travel inches (mm)	Max. Movement Differential inches (mm)	Max. Rest Position inches (mm)	Actuation Length** inches (mm)	
AA	Button		500	0.075 (1.9)	0.567 ±0.020 (14.4±0.5)	0.028 (0.7)	0.047 (1.2)	0.63 (16.0)	N/A	
JA or LA	Straight, SR		550	0.075 (1.9)	0.587 ±0.020 (14.9±0.5)	0.024 (0.6)	0.047 (1.2)	0.66 (16.8)	0.835 (21.2)	
JD or LD	Straight, SR		240	0.177 (4.5)	0.575 ±0.047 (14.6±1.2)	0.047 (1.2)	0.102 (2.6)	0.76 (19.2)	1.402 (35.6)	
JL	Straight, SR		100	0.425 (10.8)	0.520 ±0.110 (13.2±2.8)	0.126 (3.2)	0.256 (6.5)	0.98 (25.0)	2.752 (69.9)	
KA or MA	Straight, HR		320	0.134 (3.4)	0.579 ±0.031 (14.7±0.8)	0.035 (0.9)	0.079 (2.0)	0.71 (18.0)	1.012 (25.7)	
KD or MD	Straight, HR		150	0.295 (7.5)	0.563 ±0.075 (14.3±1.9)	0.075 (1.9)	0.177 (4.5)	0.86 (21.8)	1.579 (40.1)	
KL	Straight, HR		65	0.669 (17.0)	0.512 ±0.165 (13.0±4.2)	0.165 (4.2)	0.409 (10.4)	1.21 (30.8)	2.929 (74.4)	
RA	Roller, SR		forces and travel available upon request							0.811 (20.6)
RD	Roller, SR		forces and travel available upon request							1.343 (34.1)
SA	Simulated Roller, SR		forces and travel available upon request							0.811 (20.6)
TA	Roller, HR		forces and travel available upon request							0.988 (25.1)
TD	Roller, HR		forces and travel available upon request							1.520 (38.6)

UA	Simulated Roller, HR		forces and travel available upon request	0.988 (25.1)
<p>Note: All "J" and "K" type actuators are stainless steel. SR = Standard Ratio, HR = High Ratio.</p> <p>*Measured above reference line. Refer to dimensional drawing above. **Actuation tolerance ±0.031 inches (0.8mm)</p>				

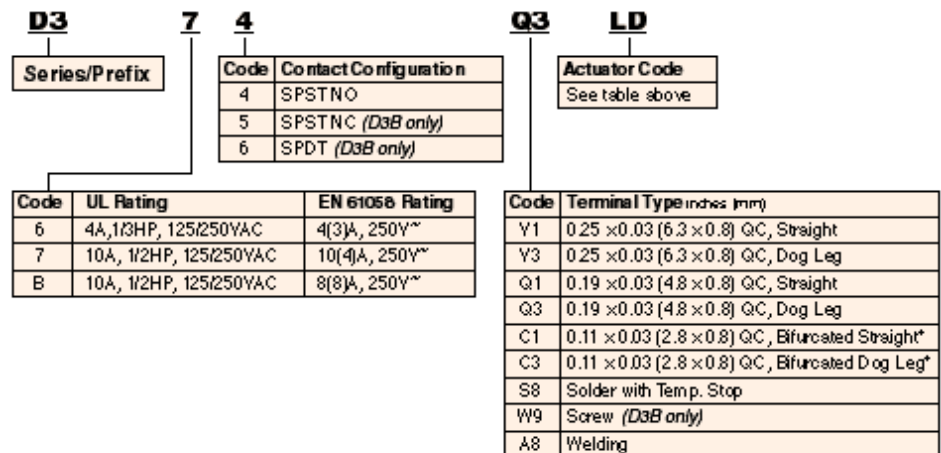
Ordering Information — Standard and light force

D3	8	3	Q3 L	D
Series/Prefix		Code	Contact Configuration	Code
			Standard Operating Force	Actuation Length (inches (mm))
			Light Operating Force	A D L
Code	Current Rating	1	SPSTNO	AA Button
Standard Force		2	SPSTNC	J Straight, Stainless, SR
8	16A, 125/250VAC, 1HP (UL, CSA)	3	SPDT	K Straight, Stainless, HR
	16(2.5)A, 250V**; 10(1.5)A, 400V** (ENEC)	7	SPSTNO	L Straight, SR
		8	SPSTNC	M Straight, HR
		9	SPDT	R Roller, SR
				S Simulated Roller, SR
				T Roller, HR
				U Simulated Roller, HR
		Code	Terminal Type (inches (mm))	
		Y3	0.25 x 0.031 (6.3 x 0.8) QC	
		Q3	0.189 x 0.031 (4.8 x 0.8) QC	
		S8	Solder with Temp. Stop	
		W9	Screw	
		A8	Welding	

Note: PCB terminals available upon request.

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Ordering Information — Contact Gap >0.12 inch (3mm)



Note: PC B terminals available upon request.

*D3B only.

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Specifications subject to change without notice.

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