

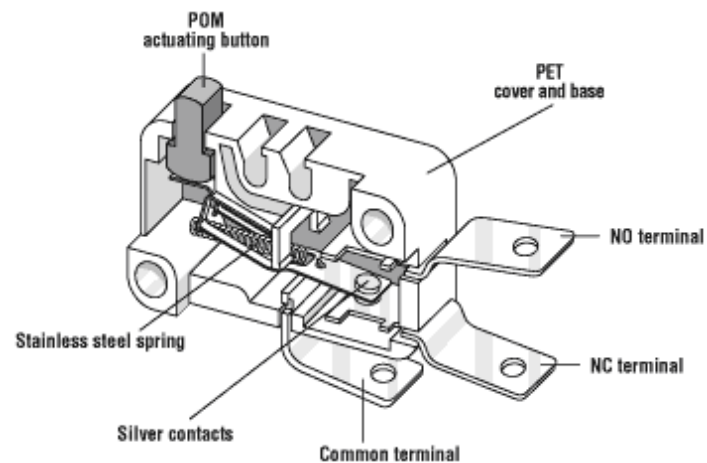
D3 Series

Miniature Snap-Action Switches


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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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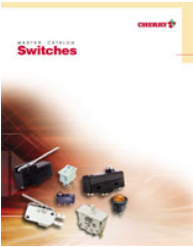
D3 Series


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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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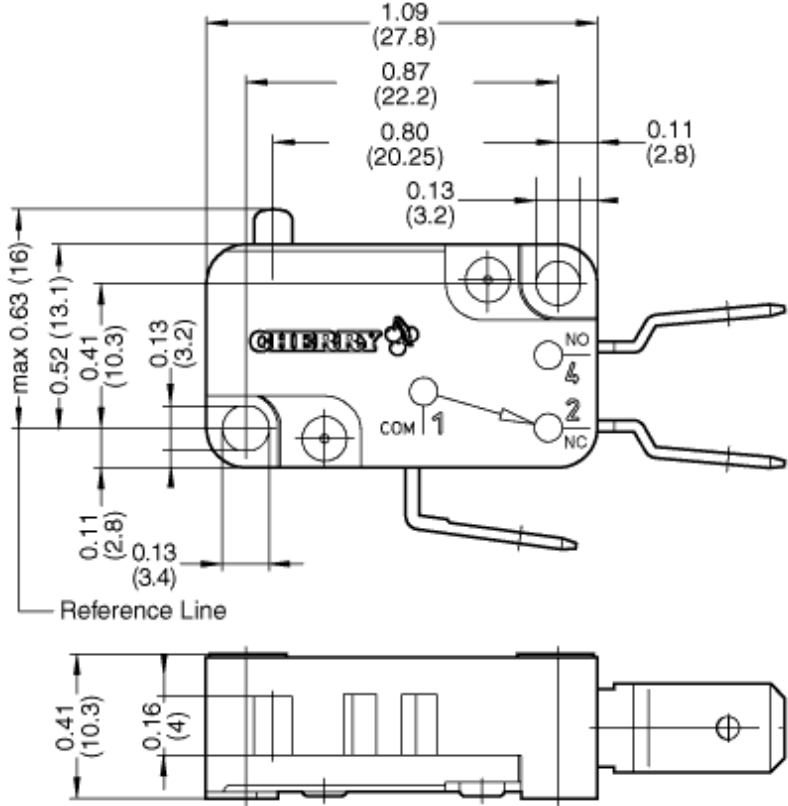
Specifications

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

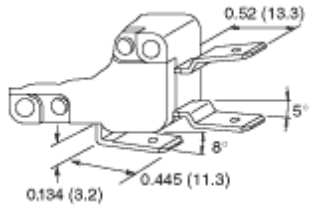
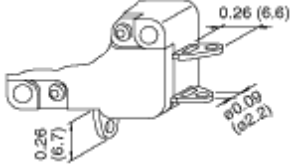
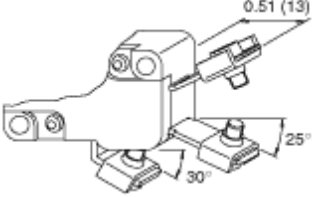


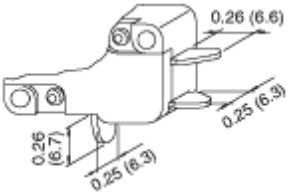
Inches (mm)

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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

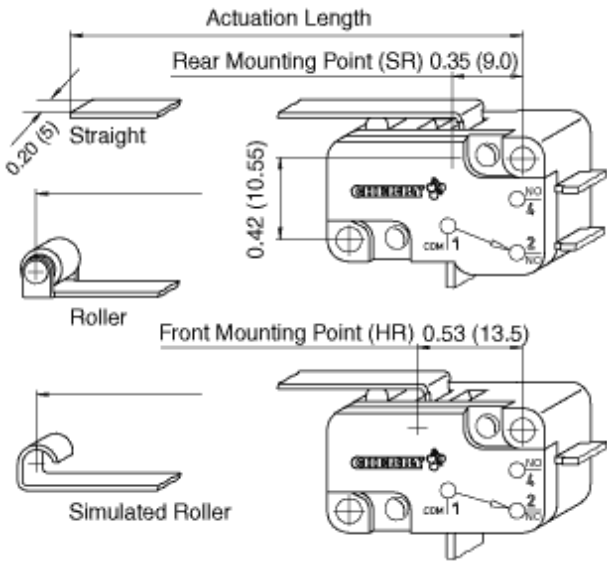
V3	QC, Dog Leg	0.248 x 0.031 (6.3 x 0.8)		yes	yes	yes
Q1	QC, Straight	0.189 x 0.031 (4.8 x 0.8)		—	—	yes
Q3	QC, Dog Leg	0.189 x 0.031 (4.8 x 0.8)		yes	yes	yes
C1	QC, Bifurcated, Straight	0.11 x 0.031 (2.8 x 0.8)		—	—	yes
C3	QC, Bifurcated, Dog Leg	0.11 x 0.031 (2.8 x 0.8)		—	—	yes
S8	Solder	see illustration 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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[Click any image for larger view.](#)

Actuators

Auxiliary Actuators

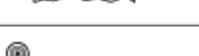
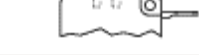


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Actuator Specifications — Standard and Light Force

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)

D3		8			
Series/Prefix					
Code	Current Rating				
Standard Force					
8	16A, 125/250VAC, 1HP (UL, CSA) 16(2.5)A, 250V~; 10(1.5)A, 400V~ (ENEC)				

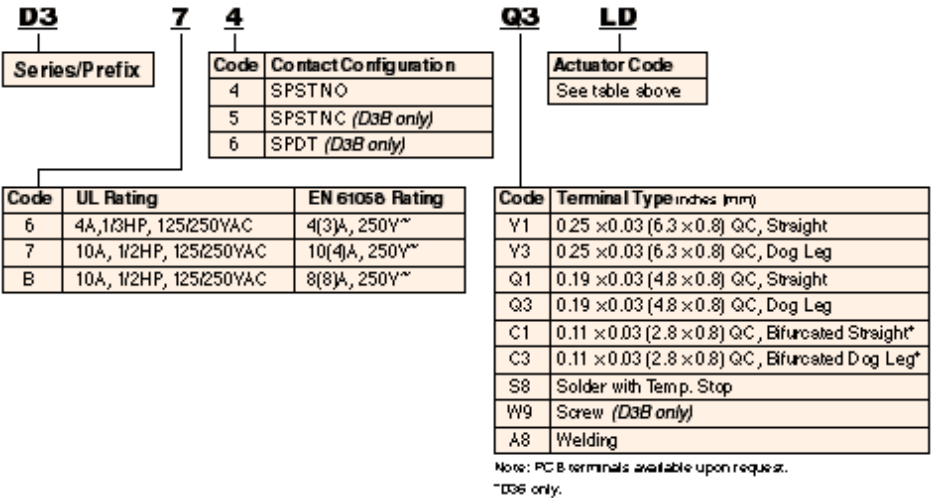
3		Q3			
Code	Contact Configuration				
Standard Operating Force					
1	SPSTNO				
2	SPSTNC				
3	SPDT				
Light Operating Force					
7	SPSTNO				
8	SPSTNC				
9	SPDT				

L		D	
Code	Actuator	Code	Actuation Length inches (mm)
AA	Button	A	D L
J	Straight, Stainless, SR	—	— —
K	Straight, Stainless, HR	0.835 (21.2)	1.402 (35.6) 2.752 (69.9)
L	Straight, SR	1.012 (25.7)	1.579 (40.1) 2.929 (74.4)
M	Straight, HR	0.835 (21.2)	1.402 (35.6) 2.752 (69.9)
R	Roller, SR	1.012 (25.7)	1.579 (40.1) 2.929 (74.4)
S	Roller, HR	0.811 (20.6)	1.343 (34.1) —
T	Simulated Roller, SR	0.811 (20.6)	— —
U	Simulated Roller, HR	0.988 (25.1)	1.520 (38.6) —
		0.988 (25.1)	— —

3	
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.

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



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Specifications subject to change without notice.