

## General specifications

### Layout



- The NO and NC circuits must both be of the same polarity.

### Components

#### Material

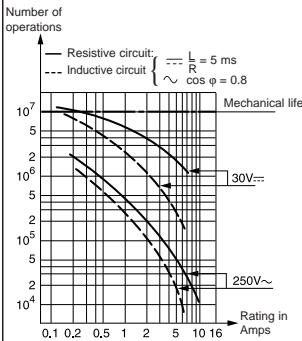
- Case : glass filled polyamide
- Contacts : silver
- Terminals: copper-nickel

#### Actuator

- Plain : stainless steel
- roller: nylon

**Accessories** : stainless steel

### Operating curve



**Approvals** UL (E42016), CSA (LR - 20918) for others, please consult us.

## Types

### Features

### Electrical characteristics

Current rating at 125-250 V	Nominal	A
	Thermal	A

### Mechanical characteristics

Operating force - max.	N (oz)
Release force min.	N (oz)
Overtravel max. - force	N (oz)
Maximum rest position	mm (in)
Tripping point	mm (in)
Movement differential	mm (in)
Overtravel - min.	mm (in)
Operating temperature	°C (°F)
Mechanical life	Operations
Contact gap	mm (in)
Weight	g (oz)

### Contact Type

C (Form C) SPDT-DB

### Connections

- 83 132 : solder connection -1- only
- 83 133 : solder connection -1- only
- 83 134 : printed circuit board -2- only

## Actuators and mounting positions-Factory Mounted Only

### Part numbers for standard actuators

Actuators-Length mm (in)

Tripping point	mm (in)
Operating force max.	N (oz)
Release force min.	N (oz)
Pre-travel - max.	mm (in)
Movement differential	mm (in)
Total travel max.	mm (in)

### Part numbers for standard actuators

Actuators-Length mm (in)

Tripping point	mm (in)
Operating force - max.	N (oz)
Release force - min.	N (oz)
Pre-travel - max.	mm (in)
Movement differential	mm (in)
Total travel max.	mm (in)

## Other information

Also available: 1) Bi-stable operation  
2) NC or NO contacts  
3) Custom Actuators

Please consult us for other actuators.

Normally stocked items

Catalog products produced to order

Products and specifications subject to change without notice.

Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com



1		
83 132 0	83 133 0	83 134 0
Side terminals	Base terminals	Face terminals
5	5	5
11	11	11
1.6 (5.6)	1.6 (5.6)	1.6 (5.6)
0.4 (1.4)	0.4 (1.4)	0.4 (1.4)
10 (35.3)	10 (35.3)	10 (35.3)
8.45 (.33)	8.45 (.33)	8.10 (.32)
7.7 <sup>+0.2</sup> (.30 <sup>-0.008</sup> )	7.7 <sup>+0.2</sup> (.30 <sup>-0.008</sup> )	7.35 <sup>+0.25</sup> (.29 <sup>-0.10</sup> )
0.45 (.018)	0.45 (.018)	0.45 (.018)
0.3 (.012)	0.3 (.012)	0.3 (.012)
-20 +125 (-4 to +257)	-20 +125 (-4 to +257)	-20 +125 (-4 to +257)
10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
0.3 x 2 (.012 x 2)	0.3 x 2 (.012 x 2)	0.3 x 2 (.012 x 2)
1.8 (.06)	1.8 (.06)	1.8 (.06)

2		
C	C	C

**1** solder tags can accept quick connects .11" x .02"  
**2** for printed circuit boards

4																																																																																							
L 70 514 175	C 70 514 194	E 70 514 181	F 70 514 182																																																																																				
Flat 54A R14.75 (.58)	Flat 54A R35.75 (1.41)	Tip-mounted in-line roller 54E R7.5 (.3)	Tip-mounted in-line roller 54E R14.1 (.56)																																																																																				
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∅ No Actuator

Except where otherwise indicated, the actuator is mounted in the position shown in the dimensional drawings (= standard mounting).

**To order please specify :**

<b>1</b> Switch Type 831320 831330 831340	<b>2</b> Contact Type C	Example : 831330 C 1 • A L <b>3</b> Connection 1 2	<b>4</b> Actuators A B C E F G L	<b>5</b> Actuator Position L - Left (Standard) R - Right
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Example P/N is 831330, SPDT-DB, solder terminals, A actuator mounted on the left.

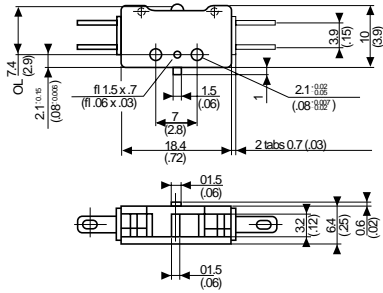
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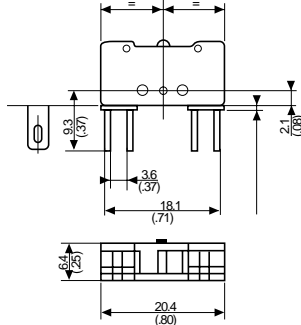
# Subminiature Switches

## Dimensions

83 132 0



83 133 0



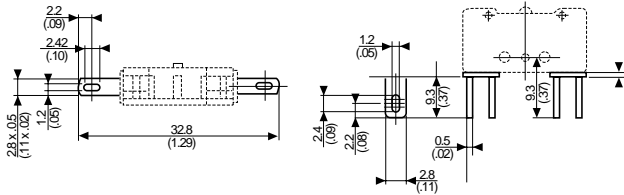
83 134 0



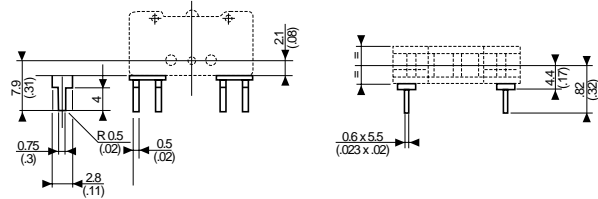
mm(in)

## Connections

1



2



mm(in)

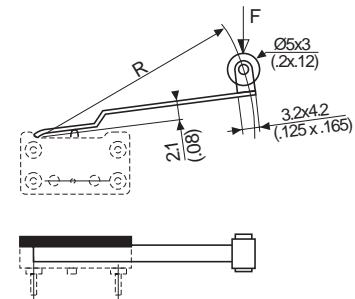
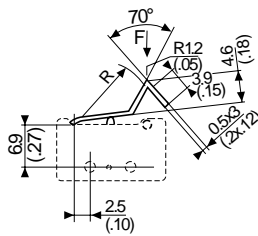
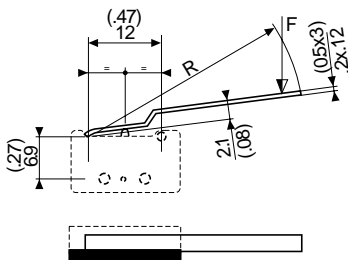
## Actuators

Standard mounting

A 70514131 R=7.75 (.30)  
 L 70514175 R=14.75 (.58)  
 C 70514194 R=35.75 (1.41)

B 70514559 R=13.7 (.54)

E 70514181 R=7.5 (.3)  
 F 70514182 R=14.1 (.56)  
 G 70514183 R=34.4 (1.35)



mm(in)

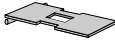


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# Subminiature Switches

## Actuators and mounting positions – Factory Mounted Only – for Gang Operation

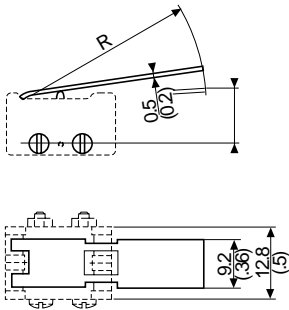
Part numbers for standard actuators – Consult factory for part number

Actuators-Length	mm (in)	2 pole <b>54A2</b> R30 (1.18)	3 pole <b>54A3</b> R30 (1.18)	Side mounting plate (0.4 mm) <b>54Y</b>
				
		<b>83 132 0</b>	<b>83 132 0</b>	Delivered separately
		<b>83 133 0</b> <b>*83 134 0</b>	<b>83 133 0</b> <b>*83 134 0</b>	
Tripping Point	mm (in)	8.8 <sup>+0.8</sup> (.346 <sup>+0.03</sup> )	8.8 <sup>+0.8</sup> (.346 <sup>+0.03</sup> )	
Operating Force max	N (oz)	0.8 (2.8)	1.2 (4.2)	
Release Force min	N (oz)	0.16 (.6)	0.24 (.8)	
Pre-travel min	mm (in)	4.3 (.17)	4.3 (.17)	
Movement differential	mm (in)	2 <sup>+0.55</sup> (.08 <sup>+0.02</sup> )	2 <sup>+0.55</sup> (.08 <sup>+0.02</sup> )	
Total travel max	mm (in)	5.75 (.23)	5.75 (.23)	

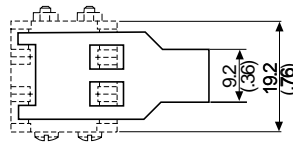
\*For gang operation with 83 132 0 or 83 133 0.

## Actuators – For Gang Operation

### 54A2



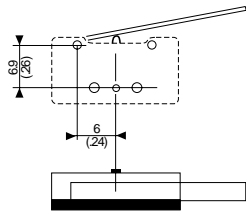
### 54A3



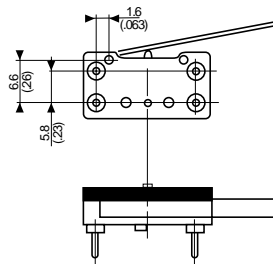
mm(in)

## Mounting accessories

### 83 132 0 - 83 133 0



### 83 134 0



mm(in)

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