

General specifications

Layout



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

Components

Material

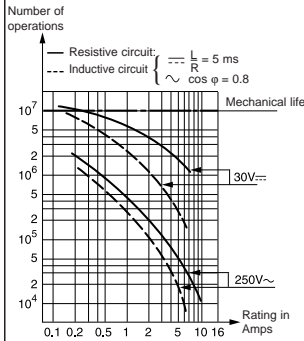
- Case : glass filled polyamide
- Contacts : silver
- Terminals: copper-nickel

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



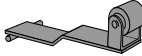
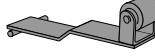


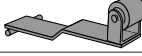
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1		
83 132 0	83 133 0	83 134 0
Side terminals	Base terminals	Face terminals
5	5	5
11	11	11
1.6 (5.6)	1.6 (5.6)	1.6 (5.6)
0.4 (1.4)	0.4 (1.4)	0.4 (1.4)
10 (35.3)	10 (35.3)	10 (35.3)
8.45 (.33)	8.45 (.33)	8.10 (.32)
7.7 ^{+0.2} (.30 ⁻⁰⁰⁸)	7.7 ^{+0.2} (.30 ⁻⁰⁰⁸)	7.35 ^{+0.25} (.29 ⁻⁰¹⁰)
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 ⁷	10 ⁷	10 ⁷
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		
3		

 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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Ø No Actuator

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

To order please specify :

1 Switch Type 831320 831330 831340	2 Contact Type C	3 Connection 1 2	Example : 831330 C 1 • A L 4 Actuators A B C E F G Ø L	5 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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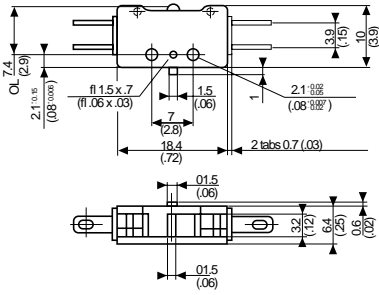
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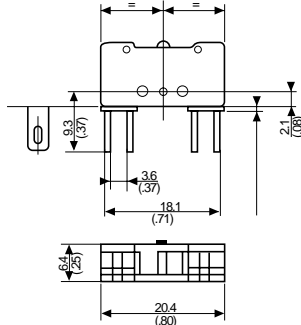
Subminiature Switches

Dimensions

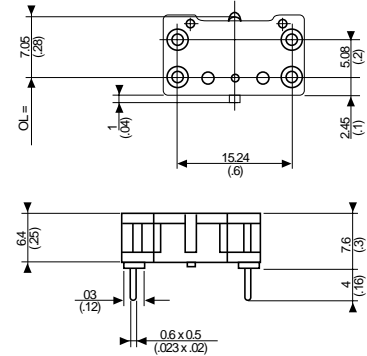
83 132 0



83 133 0



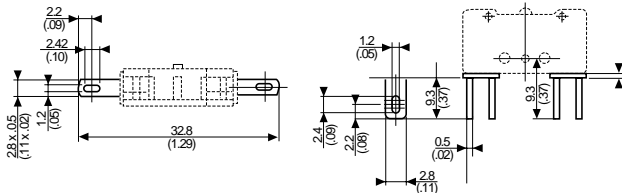
83 134 0



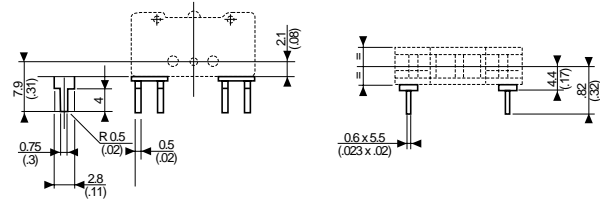
mm(in)

Connections

1



2



mm(in)

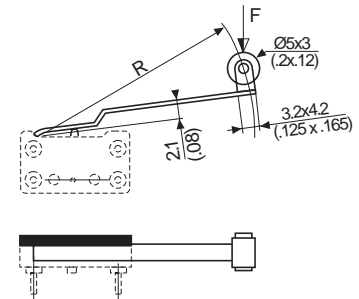
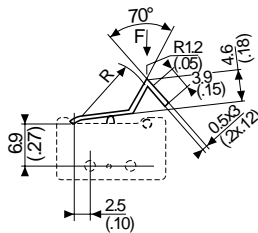
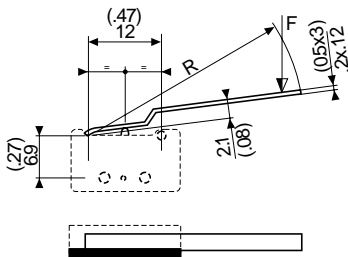
Actuators

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)

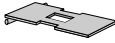


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Subminiature Switches

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

Part numbers for standard actuators – Consult factory for part number

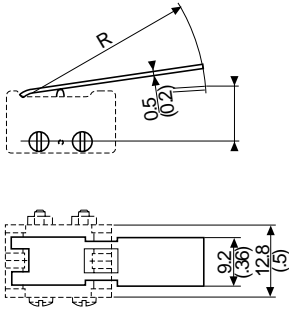
Actuators-Length	mm (in)	2 pole 54A2 R30 (1.18)	3 pole 54A3 R30 (1.18)	Side mounting plate (0.4 mm) 54Y
				
		83 132 0	83 132 0	
		83 133 0	83 133 0	
		*83 134 0	*83 134 0	
Tripping Point	mm (in)	8.8 ^{+0.8} (.346 ^{+0.03})	8.8 ^{+0.8} (.346 ^{+0.03})	
Operating Force max	N (oz)	0.8 (2.8)	1.2 (4.2)	
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 ^{+0.55} (.08 ^{+0.02})	2 ^{+0.55} (.08 ^{+0.02})	
Total travel max	mm (in)	5.75 (.23)	5.75 (.23)	

Delivered separately

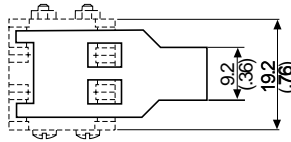
* For gang operation with 83 132 0 or 83 133 0.

Actuators – For Gang Operation

54A2



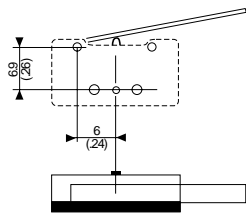
54A3



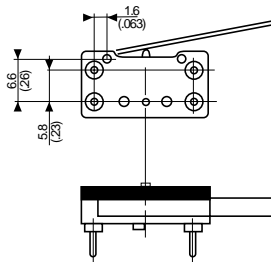
mm(in)

Mounting accessories

83 132 0 - 83 133 0



83 134 0



mm(in)

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