

General specifications

Layout



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

Components

Material

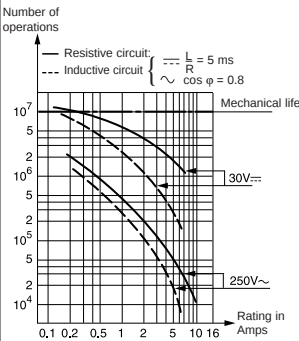
- Case : glass filled polyamide
- Contacts : silver
- Terminals: copper-nickel

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 ^{+0.2} (.30 ^{+0.008})	7.7 ^{+0.2} (.30 ^{+0.008})	7.35 ^{+0.25} (.29 ^{+0.010})	
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	C	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)
83 132 0	83 132 0	83 132 0	83 132 0
83 133 0	83 133 0	83 133 0	83 133 0
83 134 0	83 134 0	83 134 0	83 134 0
9.5 ^{+0.8} (.374 ^{+0.031})	10 ^{+1.5} (.413 ^{+0.06})	14.2 ^{+0.3} (.56 ^{+0.012})	15.5 ^{+0.8} (.61 ^{+0.031})
9.2 ^{+0.8} (.362 ^{+0.031})	9.7 ^{+0.15} (.382 ^{+0.008})	13.9 ^{+0.3} (.547 ^{+0.011})	15.2 ^{+0.8} (.6 ^{+0.031})
0.18 (.6)	0.34 (1.2)	1.6 (5.6)	0.8 (2.8)
0.16 (.5)	0.06 (.2)	0.32 (1.1)	0.17 (.6)
2.15 (.085)	5.15 (.203)	1.1 (.043)	2.05 (.081)
1 ^{+0.3} (.04 ^{+0.011})	2.1 ^{+0.65} (.083 ^{+0.026})	0.5 ^{+0.15} (.02 ^{+0.006})	0.95 ^{+0.3} (.037 ^{+0.011})
2.8 (.11)	6.8 (.268)	1.45 (.057)	2.7 (.106)
B 70 514 559	A 70 514 131	G 70 514 183	
Simulated Roller 54B R13.7 (.54)	Flat 54A R7.75 (.30)	Tip-mounted in-line roller 54E R34.4 (1.35)	
83 132 0	83 132 0	83 132 0	
83 133 0	83 133 0	83 133 0	
83 134 0	83 134 0	83 134 0	
12.7 ^{+0.8} (.5 ^{+0.031})	8.2 ^{+0.3} (.32 ^{+0.01})	16.1 ^{+1.4} (.63 ^{+0.06})	
12.4 ^{+0.8} (.49 ^{+0.031})	7.9 ^{+0.3} (.31 ^{+0.01})	15.8 ^{+1.4} (.62 ^{+0.05})	
0.85 (.3)	1.55 (5.45)	0.34 (1.19)	
0.18 (.6)	0.3 (1.05)	0.07 (.25)	
2.05 (.081)	1.1 (.04)	4.9 (1.9)	
0.95 ^{+0.3} (.037 ^{+0.011})	.5 ^{+0.15} (.02 ^{+0.006})	2 ^{+0.6} (.08 ^{+0.02})	
2.7 (.106)	1.5 (.06)	6.6 (.26)	

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

Example P/N is 831330, SPDT-DB, solder terminals, A actuator mounted on the left.

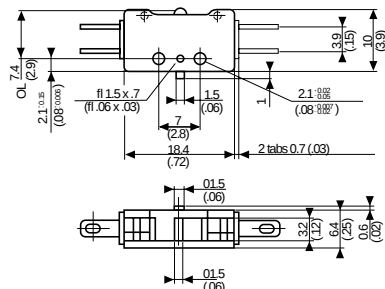
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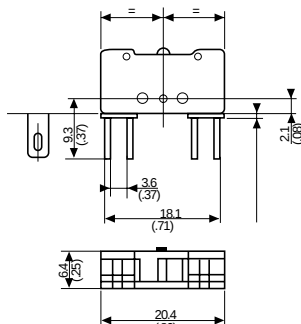
Subminiature Switches

Dimensions

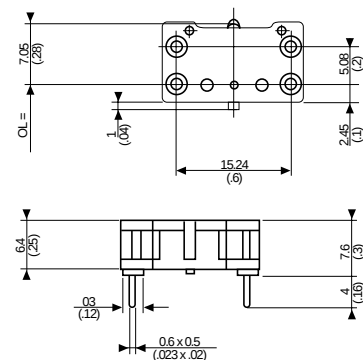
83 132 0



83 133 0



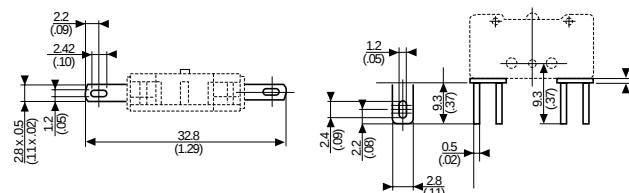
83 134 0



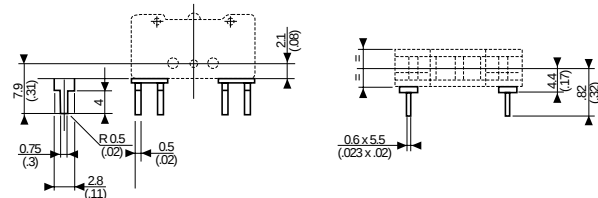
mm(in)

Connections

1



2



mm(in)

Actuators

Standard mounting

A 70514131 R=7.75 (.30)

L 70514175 R=14.75 (.58)

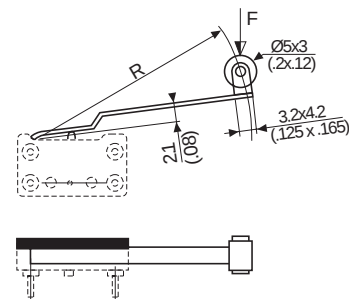
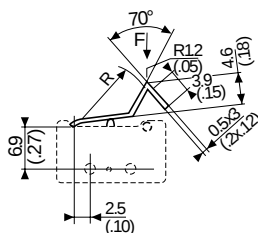
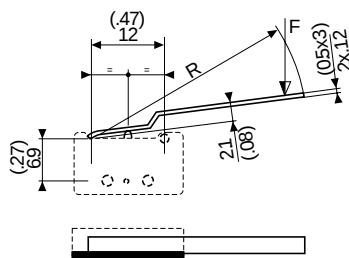
C 70514194 R=35.75 (1.41)

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)



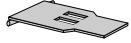
mm(in)

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

Part numbers for standard actuators – Consult factory for part number

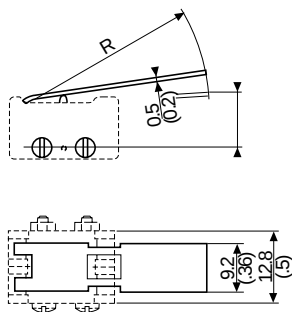
Actuators-Length	mm (in)	2 pole 54A2 R30 (1.18)	3 pole 54A3 R30 (1.18)	Side mounting plate (0.4 mm) 54Y
				
		83 132 0	83 132 0	
		83 133 0	83 133 0	
		*83 134 0	*83 134 0	
Tripping Point	mm (in)	8.8 ^{+0.8} (.346 ^{+0.03})	8.8 ^{+0.8} (.346 ^{+0.03})	
Operating Force max	N (oz)	0.8 (2.8)	1.2 (4.2)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

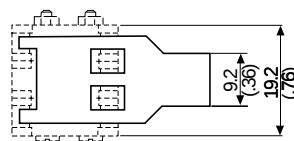
*For gang operation with 83 132 0 or 83 133 0.

Actuators – For Gang Operation

54A2



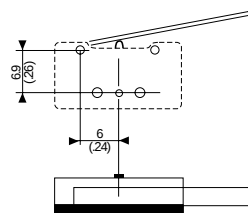
54A3



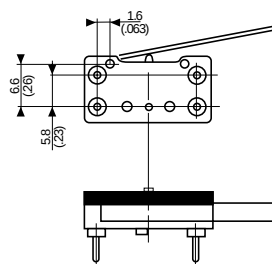
mm(in)

Mounting accessories

83 132 0 - 83 133 0



83 134 0



mm(in)

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