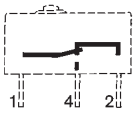
General specifications

Layout



Components

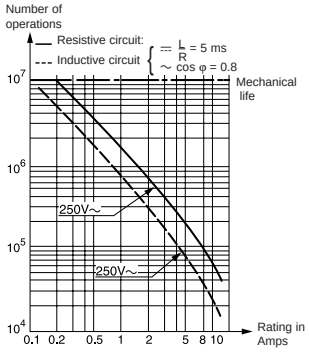
Material
- Case : polyester UL 94 VO
- Button : glass-filled polyamide
- Contacts : AgNi, gold-plated AgNi (dual-current)
- Terminals : copper-nickel

Actuators
- flat : stainless steel
- roller : stainless steel with polyamide roller

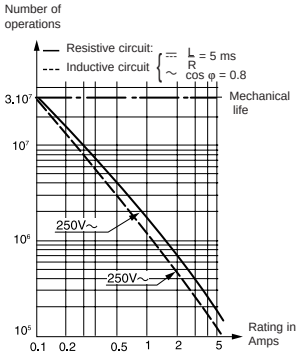
Approvals: NF - UL - cUL

Operating curve

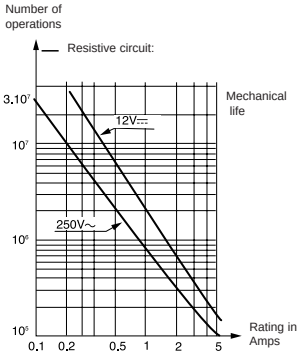
For type 83 170 0



For type 83 170 4



For type 83 170 9



Model 83 170 9 is designed to operate equally well on dual-current (1 mA 4 V minimum) or medium-current (5 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

Types

Part numbers for standard products (no lever) terminal type	1
	2
	3

Features

Electrical characteristics		
Current rating at 250 V	Nominal	A
	Thermal	A

Mechanical characteristics	
Operating force - max.	N (oz.)
Release force - min.	N (oz.)
Total travel force - max.	N (oz.)
Permitted overtravel force - max.	N (oz.)
Maximum rest position	mm (in.)
Tripping point	mm (in.)
Differential travel	mm (in.)
Overtravel - min.	mm (in.)
Ambient operating temperature	°C
Mechanical endurance	Operations
Contact gap	mm (in.)
Weight	g (oz.)

Contact type

C (Form C) SPDT
B (Form B) SPNC not available in PC terminals
A (Form A) SPNO not available in PC terminals

Connections

Actuators and mounting positions

Part numbers for standard actuators

Actuators – Length	mm (in.)

Mounting positions	
Coefficient	
Tripping point	mm (in.)

Mounting positions

Except where otherwise indicated, actuators are supplied unmounted. For factory mounting, specify mounting position L or R.

– **To calculate force :** take the force quoted for the switch and divide by the coefficient given in the table.
– **To calculate travel :** take the travel quoted for the switch and multiply by the same coefficient.

Mounting accessories for PCB mounting: 5 / 6 / 7 / 8

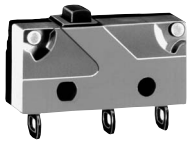
See page 3/9.

Other information

For other forces, actuators, connections and temperatures, please consult us.

Normally stocked items

Catalog products produced to order



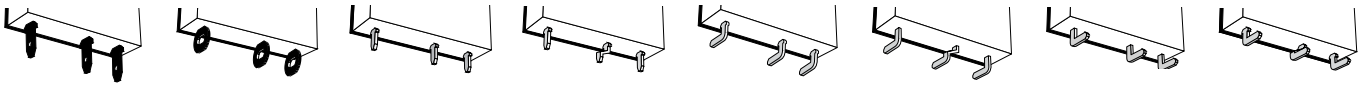
1

83170.0	83170.4	83170.9	83170.4 SP 4967	83170.4	83170.9
831700C1.0	**831704C1.0**	**831709C1.0**	**831704C2.MBSP**	**831704C1.MB**	**831709C1.MB**
831700C2.0	**831704C2.0**	**831709C2.0**	**831704C3.MBSP**	**831704C2.MB**	**831709C2.MB**
831700C3.0	**831704C3.0**	**831709C3.0**	**831704C1.MBSP**	**831704C3.MB**	**831709C3.MB**
High current	Standard	Low current	High force	Standard	Low current
10	5	0.1	5	5	0.1
12.5	6		6	6	
1.5 (5.3)	0.6 (2.2)	0.6 (2.2)	1.5 (5.3)	0.6 (2.2)	0.6 (2.2)
0.3 (1)	0.1 (.04)	0.1 (.04)	0.3 (1)	0.1 (.04)	0.1 (.04)
1.8 (6.3)	1 (3.5)	1 (3.5)	1.8 (6.3)	1 (3.5)	1 (3.5)
10 (35.3)	10 (35.3)	10 (35.3)	10 (35.3)	10 (35.3)	10 (35.3)
9.2 (.36)	9.2 (.36)	9.2 (.36)	10.8 (.425)	10.8 (.425)	10.8 (.425)
$8.4^{\pm0.3}$ ($.33^{\pm.01}$)	$8.4^{\pm0.3}$ ($.33^{\pm.01}$)	$8.4^{\pm0.3}$ ($.33^{\pm.01}$)	$9.9^{\pm0.3}$ ($.39^{\pm.01}$)	$9.9^{\pm0.3}$ ($.39^{\pm.01}$)	$9.9^{\pm0.3}$ ($.39^{\pm.01}$)
0.15 (.006)	0.15 (.006)	0.15 (.006)	0.15 (.006)	0.15 (.006)	0.15 (.006)
0.5 (.02)	0.5 (.02)	0.5 (.02)	0.5 (.02)	0.5 (.02)	0.5 (.02)
-20 to130 (-4 to 266)	-20 to130 (-4 to 266)	-20 to130 (-4 to 266)	-20 to130 (-4 to 266)	-20 to130 (-4 to 266)	-20 to130 (-4 to 266)
10^7	3.10^7	3.10^7	10^6	10^6	10^6
0.4 (.016)	0.4 (.016)	0.4 (.016)	0.4 (.016)	0.4 (.016)	0.4 (.016)
1.7 (.06)	1.7 (.06)	1.7 (.06)	1.7 (.06)	1.7 (.06)	1.7 (.06)

2

C	**C**	**C**	**C**	**C**	**C**
B	**B**	**B**	**B**	**B**	**B**
A	**A**	**A**	**A**	**A**	**A**

3



1 **2** **3** **4** **5** **6** **7** **8**

4

A **79 253 327**

Flat **170A** R18.3 (.72)

L	R
3	1.5
$10.4^{\pm1.2}$ ($.41^{\pm.05}$)	$9.2^{\pm0.6}$ ($.36^{\pm.24}$)

B **79 253 326**

Flat **170A** R24 (.94)

L	R
4	2
$11.1^{\pm1.2}$ ($.44^{\pm.05}$)	$9.6^{\pm0.6}$ ($.38^{\pm.24}$)

C **79 253 328**

Flat **170A** R41 (1.61)

L	R
7	3.5
$13.2^{\pm2.5}$ ($.52^{\pm.1}$)	$10.7^{\pm1.2}$ ($.42^{\pm.05}$)

E **79 218 454**

Roller **170E** R20 (.79)

L	R
3	1.5
$15.4^{\pm1.2}$ ($.61^{\pm.05}$)	$14.5^{\pm0.6}$ ($.57^{\pm.24}$)

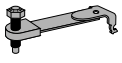
F **79 253 329**

Dummy roller **170F** R19.5 (.77)

L	R
3	1.5
$13^{\pm1.2}$ ($.51^{\pm.05}$)	$12^{\pm0.6}$ ($.47^{\pm.24}$)

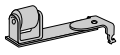
D **79 218 491**

Screw **170D** R20 (.79)



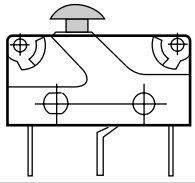
L **79 218 493**

Transverse roller **170L** R20 (.79)



Characteristics available upon request.

MB



Ø No Actuator

5

To order please specify :

Example : 831700 C 2 • C L

1 Switch Type

831700
831704
831709

2 Contact Type

A
B
C

3 Connection

1 5
2 6
3 7
4 8

4 Actuators

A E
B F
C L
D MB
Ø MB SP4967

5 Actuator Position

L - Left (Standard)
R - Right

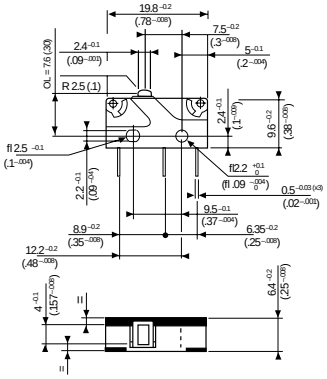
To order actuators separately, use the 8 digit P/N

Example P/N is 831700 SPDT solder terminals "C" actuator mounted on the left.

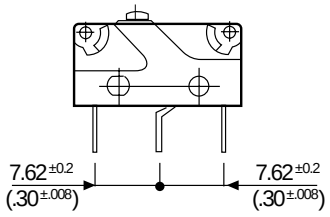
Products and specifications subject to change without notice.

Dimensions

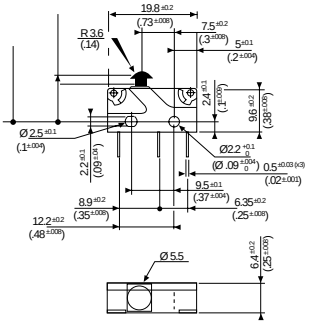
83 170 Asymmetric



83 170 Symmetric



83 170 with MB Button

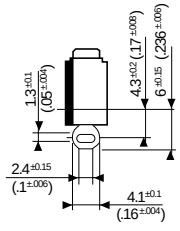


Mounting by M2 screws
Torque : 2 cm daN

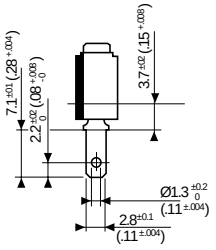
mm (in)

Connections

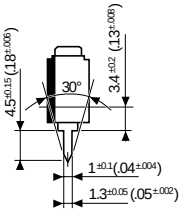
2
Solder



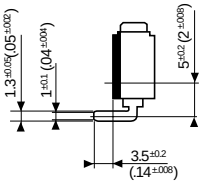
1
.11x.02 Quick Connects



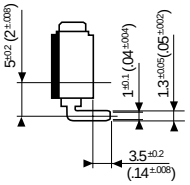
3-4
Straight PCB



5-6
Side Output PCB Rear



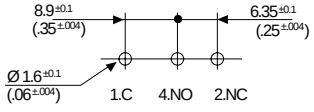
7-8
Side Output PCB Front



Printed circuit board mounting

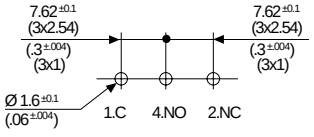
Asymmetric

3 5 7



Symmetric

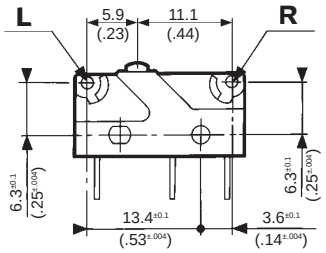
4 6 8



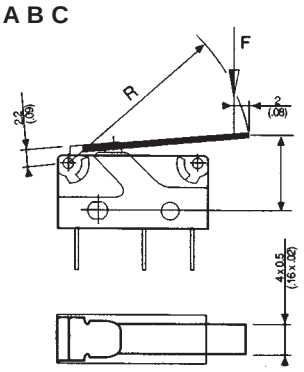
mm (in)

Actuators

Actuator mounting positions

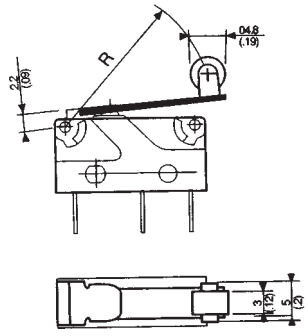


A B C

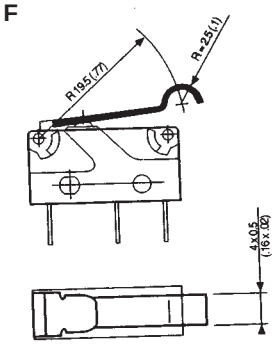


TP (Tripping Point)
Refer to pages 3/6 & 3/7.

E



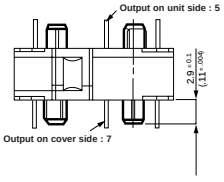
F



mm (in.)

Mounting accessories

Mounting pins



mm (in.)

LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
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- *Тестирование поставляемой продукции.*
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- *Техническую поддержку проекта.*
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- *Оценку стоимости проекта по компонентам.*
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Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru