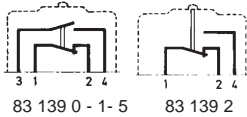


## General specifications

### Layout



### Components

#### Material

- Case : polyester
- Contacts : silver
- Membrane : nitrile on 83 139 0  
silicone on 83 139 1 - 2 - 5

#### Actuators :

- stainless steel
- rollers : polyamide

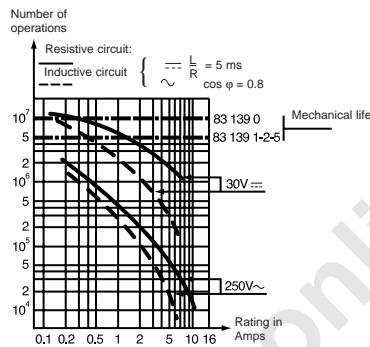
- The NO and NC circuits must both be of the same polarity.

### Characteristics specific to 83 139 1

- Conform to standards EN 50 014 and 50 018
- Group II classified for explosive atmospheres other than mines subject to firedamp
- Temperature class T6, max. surface temperature 85°C
- LCIE certificate 880022U
- These switches can be enclosed in an envelope of a certified material, particularly to provide mechanical protection

- Degree of protection IP 67.

### Operating curve



## Types

### Features

### Electrical characteristics

	Nominal	A
Current rating at 125-250 V		

### Mechanical characteristics

Operating force - max.	N (oz)
Release force - min.	N (oz)
Max. total travel force	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

### Mounting Holes

4 holes = A standard

2 holes = B

### Connections

Lead position bottom - standard

Lead position right

Lead position left

### Actuators

#### Part numbers for standard actuators

Actuator-Length mm (in)

Operating force - max.	N (oz)
Release force - min.	N (oz)
Movement differential	mm (in)

#### Part numbers for standard actuators

Actuator-Length mm (in)

Operating force - max.	N (oz)
Release force - min.	N (oz)
Movement differential	mm (in)

## Other information

For other forces, actuators, connections and temperatures, lead lengths, please consult factory.

Normally stocked items

Catalog products produced to order

Products and specifications subject to change without notice.

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<b>1</b>
<b>83 139 0</b> <b>83 139 5</b> <b>83 139 2</b> <b>83 139 1</b>

Standard	Low temperature	Double insulation to NFC 20030 standard classe II	Explosion proof EEX d 11C T6
5	5	5	5
3 (10.6)	3 (10.6)	3 (10.6)	3 (10.6)
0.6 (2.1)	0.6 (2.1)	0.6 (2.1)	0.6 (2.1)
4 (14.1)	4 (14.1)	4 (14.1)	4 (14.1)
10 (35.3)	10 (35.3)	10 (35.3)	10 (35.3)
A = 8.8 (.35)    B = 9.8 (.39)	A = 8.8 (.35)    B = 9.8 (.39)	B = 9.8 (.39)	B = 9.8 (.39)
A:7.7 <sup>+0.4</sup> (.30 <sup>+0.016</sup> )    B:8.7 <sup>+0.4</sup> (.32 <sup>+0.016</sup> )	A:7.7 <sup>+0.4</sup> (.30 <sup>+0.016</sup> )    B:8.7 <sup>+0.4</sup> (.32 <sup>+0.016</sup> )	8.7 <sup>+0.4</sup> (.32 <sup>+0.016</sup> )	A:7.7 <sup>+0.4</sup> (.30 <sup>+0.016</sup> )    B:8.7 <sup>+0.4</sup> (.32 <sup>+0.016</sup> )
0.35±0.1 (.014±.004)	0.35±0.1 (.014±.004)	0.35±0.1 (.014±.004)	0.35±0.1 (.014±.004)
0.3 (.012)	0.3 (.012)	0.3 (.012)	0.3 (.012)
0 to 85 (32 to 185)	0 to 85 (32 to 185)	-40 to 85 (-40 to 185)	-40 to 85 (-40 to 185)
10 <sup>7</sup>	5 x 10 <sup>7</sup>	5 x 10 <sup>6</sup>	5 x 10 <sup>6</sup>
0.3 x 2 (.012 x .008)	0.3 x 2 (.012 x .008)	0.3 x 2 (.012 x .008)	0.3 x 2 (.012 x .008)
37 (1.3)	37 (1.3)	45 (1.6)	37 (1.3)

<b>2</b>
<b>C</b> <b>C</b> <b>C</b> <b>C</b>

<b>3</b>
<b>A</b> <b>A</b> <b>B</b> <b>B</b>
<b>B</b> <b>B</b> <b>B</b> <b>B</b>

<b>4</b>
----------

<b>4 flexible leads</b> ø 2.8 x 0.75 mm <sup>2</sup> length 0.50 m	<b>4 flexible leads</b> ø 2.8 x 0.75 mm <sup>2</sup> length 0.50 m	<b>3 lead cable</b> 3 x 0.75 mm <sup>2</sup> length 0.50 m	<b>4 flexible leads</b> ø 2.8 x 0.75 mm <sup>2</sup> length 0.50 m
--------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------	--------------------------------------------------------------------

<b>5</b>
<b>B</b> <b>B</b> <b>B</b> <b>B</b>
<b>R</b> <b>R</b> <b>R</b> <b>R</b>
<b>L</b> <b>L</b> <b>L</b> <b>L</b>

<b>6</b>
<b>P</b> <b>R</b> <b>A</b> <b>79 215 740</b> <b>B</b> <b>79 507 524</b> <b>E</b> <b>79 215 742</b> <b>G</b> <b>70 507 529</b>

Flat <b>139 AX</b> R29.7 (1.17)**	Roller <b>139 EX</b> R28.7 (1.13)**	Flat <b>161A</b> R14.2 (.56) – R25.4 (1.0)	Roller <b>161 E</b> R13.6 (.54) – R24.1 (.94)
-----------------------------------	-------------------------------------	--------------------------------------------	-----------------------------------------------

1.5 (5.3)	1.5 (5.3)	2.6 (9.2)	2.6 (9.2)
0.2 (.7)	0.2 (.7)	0.35 (1.2)	0.35 (1.2)
1.5 (.06)	1.5 (.06)	0.7 (.028)	0.7 (.028)
			1.7 (6)
			0.2 (.7)
			1.25 (.05)
			1.7 (6)
			0.2 (.7)
			1.25 (.047)

**F 79 218 581**      **H 79 218 651**      **Note** : When mounting actuators, a light greasing of the switch push-button is recommended.

Flat **161F** R22.3 (1.17)      Dummy roller **161 G** R21.8 (.86)

2 (7.1)	2 (7.1)
0.2 (.7)	0.2 (.7)
1.1 (.043)	1.1 (.043)

For more actuators, see 83161

Ø  
**No Actuator**

\*\* Factory mounted only

**To order, please specify :**

<b>1</b> Switch Type	<b>2</b> Contact Type	<b>3</b> Mounting Holes	<b>4</b> Connection	<b>5</b> Lead Length	<b>6</b> Actuators
831390 831391 831392 831395	C	A B	B R L	.5 - 1/2 meter (std) 1 - 1 meter 2 - 2 meter	A    F    P B    H    R E G
Example switch is: 831390, DBDT, 4 mounting holes, leads exit bottom, .5 meter cable with A actuator.			To order actuators separately, use 8 digit P/N.		

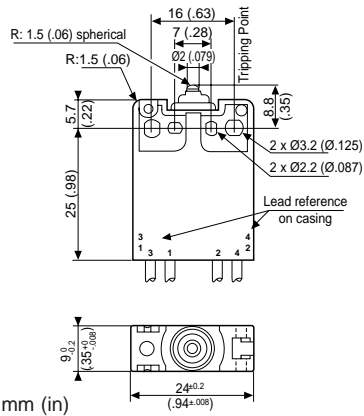
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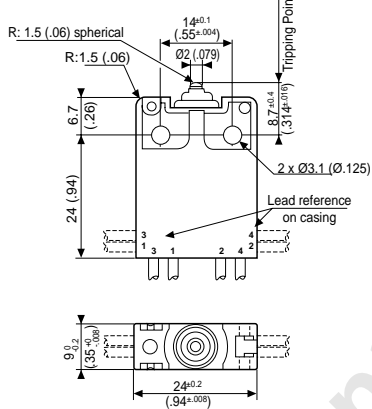


## Dimensions

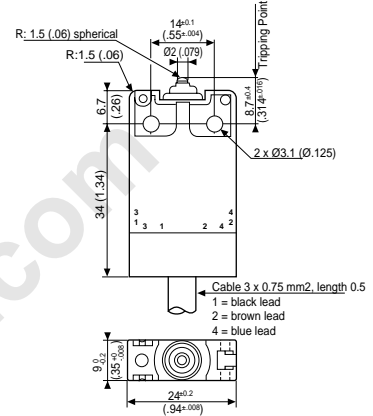
83 139 0 - 5 - Mounting A = 4 holes



83 139 0 - 1 - 5 - Mounting B = 2 holes

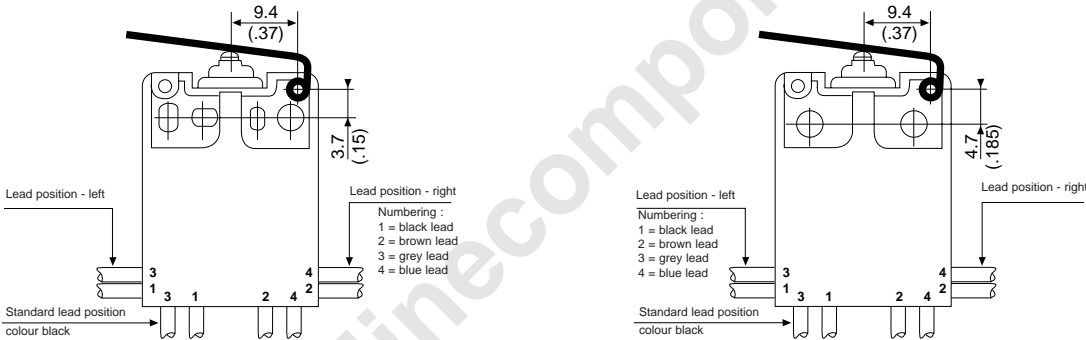


83 139 2

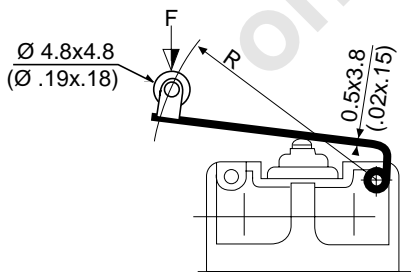


## Actuators Factory Mounted Only

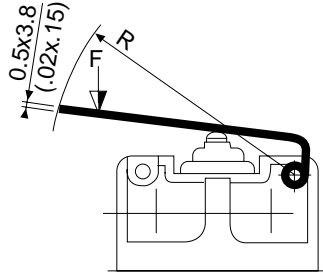
Actuators mounting position (type 139)



R



P



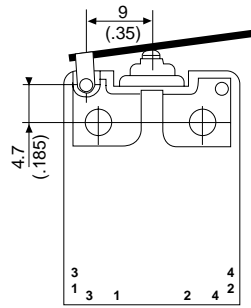
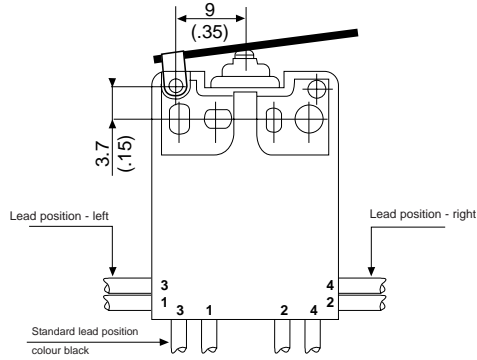
mm (in)

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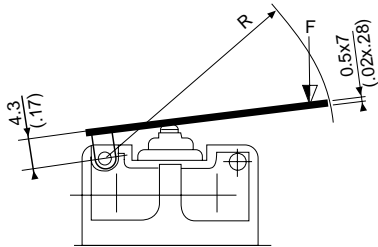
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## Actuators User or Factory Mounted

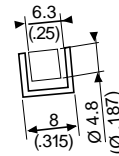
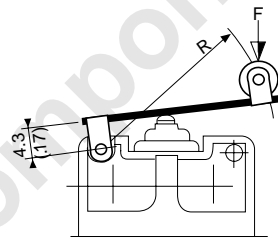
Actuators mounting position (type 161)



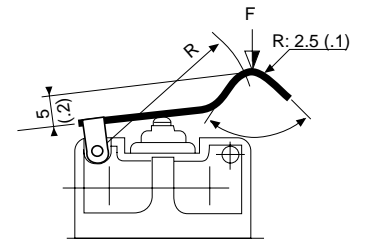
A - B



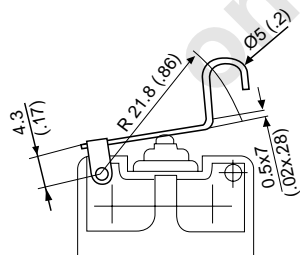
E - G



F



H



mm (in)

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