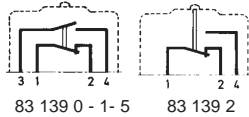


General specifications

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

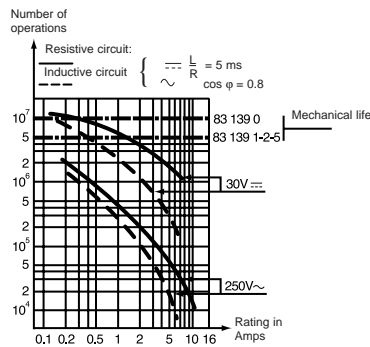
- The NO and NC circuits must both be of the same polarity.

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

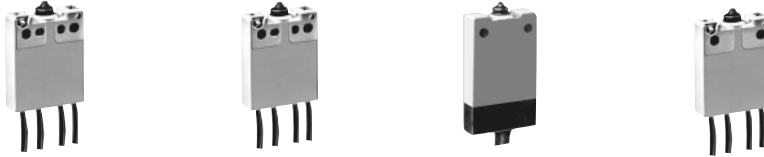
For other forces, actuators, connections and temperatures, lead lengths, please consult factory.

Normally stocked items

Catalog products produced to order

Products and specifications subject to change without notice.

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



1
83 139 0 83 139 5 83 139 2 83 139 1

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 ^{+0.4} (.30 ^{+0.016}) B:8.7 ^{+0.4} (.32 ^{+0.016})	A:7.7 ^{+0.4} (.30 ^{+0.016}) B:8.7 ^{+0.4} (.32 ^{+0.016})	8.7 ^{+0.4} (.32 ^{+0.016})	A:7.7 ^{+0.4} (.30 ^{+0.016}) B:8.7 ^{+0.4} (.32 ^{+0.016})
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 ⁷	5 x 10 ⁷	5 x 10 ⁶	5 x 10 ⁶
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)

2

C	C	C	C
A	A	B	B
B	B	B	B

3

4 flexible leads ø 2.8 x 0.75 mm ² length 0.50 m	4 flexible leads ø 2.8 x 0.75 mm ² length 0.50 m	3 lead cable 3 x 0.75 mm ² length 0.50 m	4 flexible leads ø 2.8 x 0.75 mm ² length 0.50 m
--	--	--	--

B	B	B	B
R	R	R	R
L	L	L	L

4

P	R	A 79 215 740	B 79 507 524	E 79 215 742	G 70 507 529
----------	----------	----------------------------	----------------------------	----------------------------	----------------------------

Flat 139 AX R29.7 (1.17)**	Roller 139 EX R28.7 (1.13)**	Flat 161A R14.2 (.56) – R25.4 (1.0)	Roller 161 E 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)

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 :

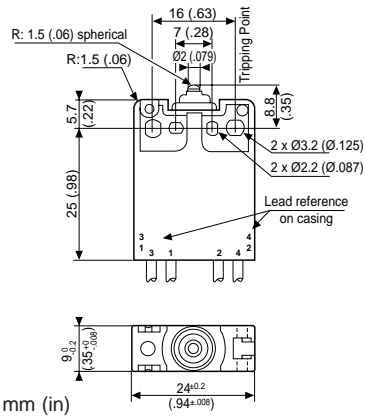
1 Switch Type	2 Contact Type	3 Mounting Holes	4 Connection	5 Lead Length	6 Actuators
831390 831391 831392 831395	C	A B	B R L	.5 - 1/2 meter (std) 1 - 1 meter 2 - 2 meter	A F P B H R E G
Example switch is: 831390, DBDT, 4 mounting holes, leads exit bottom, .5 meter cable with A actuator.			To order actuators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

Products and specifications subject to change without notice.

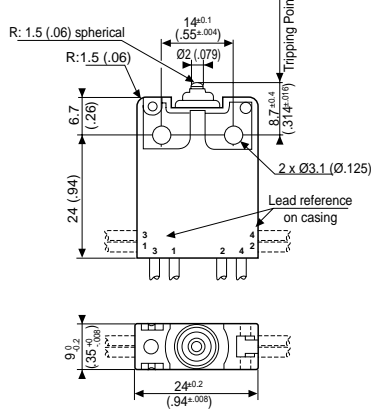
Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Dimensions

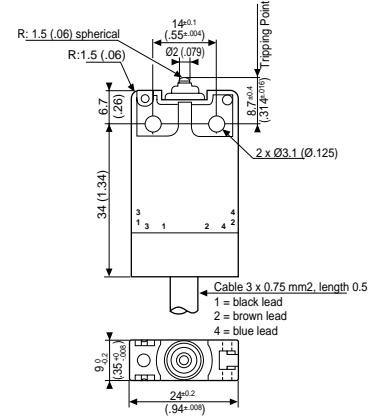
83 139 0 - 5 - Mounting A = 4 holes



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

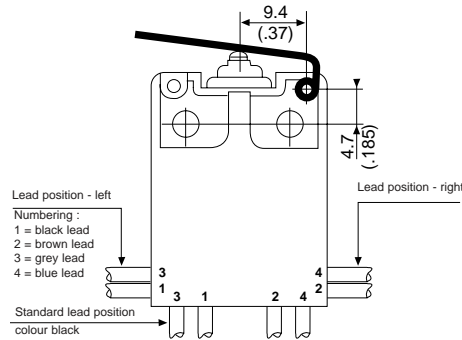
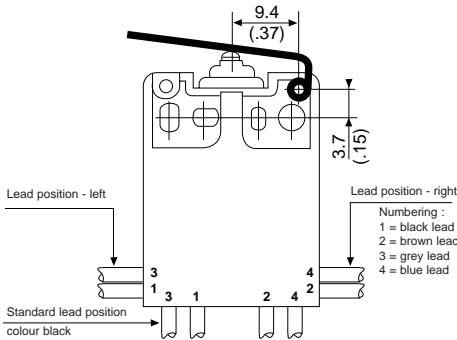


83 139 2



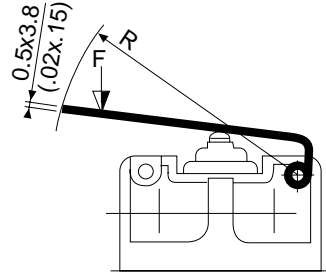
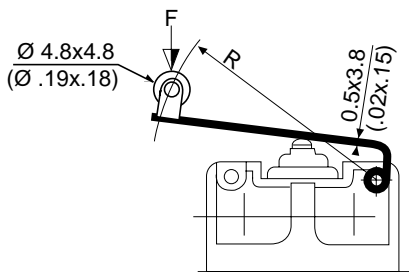
Actuators Factory Mounted Only

Actuators mounting position (type 139)



R

P



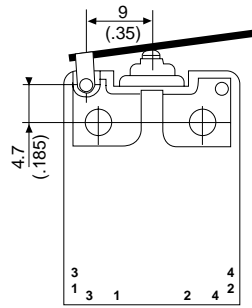
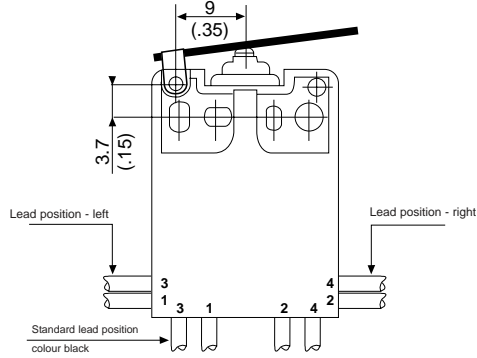
mm (in)

Products and specifications subject to change without notice.

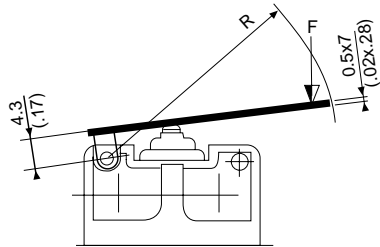
Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Actuators User or Factory Mounted

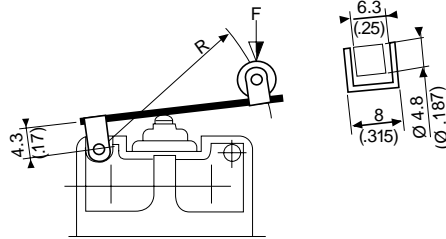
Actuators mounting position (type 161)



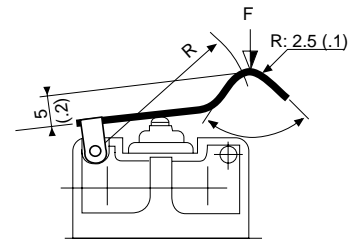
A - B



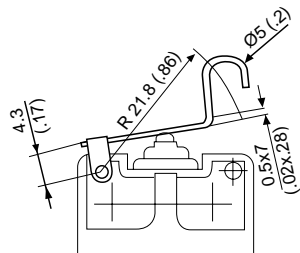
E - G



F



H



mm (in)

Products and specifications subject to change without notice.

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