



1 N.O. - 1 N.C.

Specifications

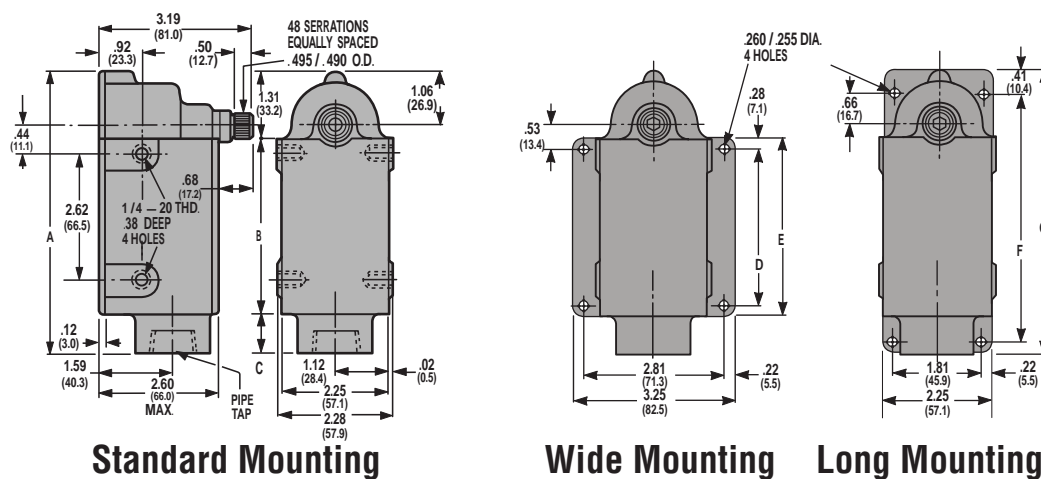
1. Enclosure is water, oil and dust tight.
2. Enclosure meets NEMA Type 1, 4 and 13 requirements.
3. Contacts made of silver alloy. Contact shifting mechanism is locked in position by the latches until switch lever is actuated.
4. Standard Temperature Range: -20°C to +90°C
5. Operating lever is adjustable to any required position.
6. Operating Lever Angles (travel either clockwise or counterclockwise) maximum degrees of trip travel, reset travel, as well as total lever travel, are determined by the cam selected.
7. Operating Torques - Trip Torque varies from 15 to 33 in. lbs. depending on switch size and cam selected.
8. Current Ratings:

Voltage	For Neutral Position Only	
	125V-A.C.	20.0 Amps*
250V-A.C.	15.0 Amps*	7.5 Amps*
480V-A.C.	10.0 Amps*	5.0 Amps*
600V-A.C.	5.0 Amps*	2.5 Amps*
125V-D.C.	5.0 Amps*	2.5 Amps*
250V-D.C.	1.5 Amps*	.75 Amps*

*75-100% Power Factor

Dimensions and Mounting

Series EA700 Snap-Lock Limit Switches are specifically designed for flexibility in mounting arrangements. Basic design permits mounting for either side or back. Shown here are the (1) STANDARD for side mounting; (2) WIDE for back mounting; (3) LONG for back mounting.



Standard Mounting

Wide Mounting Long Mounting

All dimensions given in US & Metric: Inches (mm)

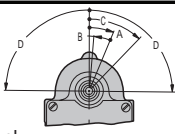

CONTACT SEQUENCE	STANDARD SWITCH				MOUNTING STYLE			
	PIPE TAP SIZE	A	B	C	WIDE		LONG	
					D	E	F	G
1 N.O. - 1 N.C.	1/2-14 NPT	4.94	3	0.62	2.44	3	4.22	4.84

Standard Switches

ORDERING INFORMATION

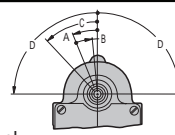

CW OPERATION ONLY (Combination B-1/B-2 Cam)

Contacts transfer when lever is operated CW. Lever can be operated CCW but contacts will not transfer.

CATALOG NUMBERS			OPERATIONAL DATA
MOUNTING (see opposite page)			
STANDARD	WIDE	LONG	 <p>A. Trip Travel 18° B. Reset Travel 14° C. Recommended Travel 30° D. Total Travel Available..... 90° Torque (Inch Lbs.) 1 N.O. - 1 N.C. 15</p>
EA700-10000	EA700-40000	EA700-70000	
CONTACTS	CIRCUITS		
1 N.O. 1 N.C.			

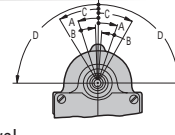

CCW OPERATION ONLY (Combination B-1/B-2 Cam)

Contacts transfer when lever is operated CCW. Lever can be operated CW but contacts will not transfer.

CATALOG NUMBERS			OPERATIONAL DATA
MOUNTING (see opposite page)			
STANDARD	WIDE	LONG	 <p>A. Trip Travel 18° B. Reset Travel 14° C. Recommended Travel 30° D. Total Travel Available..... 90° Torque (Inch Lbs.) 1 N.O. - 1 N.C. 15</p>
EA700-10001	EA700-40001	EA700-70001	
CONTACTS	CIRCUITS		
1 N.O. 1 N.C.			

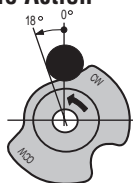
CW & CCW OPERATION ONLY (Combination B-1/B-2 Cam)

Contacts transfer when lever is operated CW or CCW.

CATALOG NUMBERS			OPERATIONAL DATA
MOUNTING (see opposite page)			
STANDARD	WIDE	LONG	 <p>A. Trip Travel 18° B. Reset Travel 14° C. Recommended Travel 30° D. Total Travel Available..... 90° Torque (Inch Lbs.) 1 N.O. - 1 N.C. 15</p>
EA700-10100	EA700-40100	EA700-70100	
CONTACTS	CIRCUITS		
1 N.O. 1 N.C.			

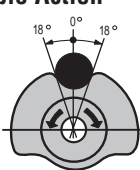
Typical Cams

B1 Single Action



Normally open to make (normally closed to break) IN ONE DIRECTION ONLY. Lever and cam are spring returned to starting position. Used on Single Action Switches only.

B2 Double Action



Normally open to make (normally closed to break) IN EITHER DIRECTION. Lever and cam are spring returned to starting position.

Combination B1/B2 CAM

The following three operating sequences are built into the combination cam used in the standard EA700 switches: B1 Single Action CW, B1 Single Action CCW and B2 Double Action CW & CCW.

1. The contacts function when the lever is operated clockwise. The lever can be operated counterclockwise but the contacts will not operate.
2. The contacts function when the lever is operated counterclockwise. The lever can be operated clockwise but the contacts will not operate.
3. The contacts function when the lever is operated clockwise or counterclockwise.

ORDERING INFORMATION

Maintained Switches

M CAM – MAINTAINED CONTACTS & LEVER POSITION

Lever and contacts are maintained in tripped position. When lever is moved CCW the N.C. contacts open and the N.O. contacts close. Starting at this position rotating the lever CW the N.O. contacts open and the N.C. close.

CATALOG NUMBERS		
MOUNTING (see page 40)		
STANDARD	Wide	Long
EA700-16000	EA700-46000	EA700-76000
CONTACTS	CIRCUITS	
	POSITION 1	POSITION 2
1 N.O.	CW INITIAL CCW 	CW INITIAL CCW
1 N.C.	CW INITIAL CCW 	CW INITIAL CCW

OPERATIONAL DATA		
	POSITION 1 CCW	POSITION 2 CW
Position	1(CCW)	2(CW)
A. Trip Travel	25°	55°
B. Reset Travel	25°	22°
C. Min. Travel to Maintain	54°	55°
D. Recommended Travel	60°	60°
E. Total Travel	124°	116°
F. Overall Travel	56°	64°
Torque	(inch Lbs.)	
M CAM	1 N.O. 1 N.C.	CW CCW
		6 9

To change Switch Operation from Cam Position 1 to Position 2, Operate Switch thru Angle C. Remove Lever and Reset at Initial Position.

M7 CAM – MAINTAINED CONTACTS – LEVER RETURNED

Contacts are maintained in tripped position, torsion spring will return lever to initial position when released. When lever is moved CCW the N.C. contacts open and the N.O. contacts close. The lever must then be returned to the initial position and be operated in the CW direction to reset the contacts.

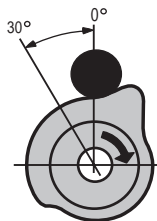
CATALOG NUMBERS		
MOUNTING (see page 44)		
STANDARD	Wide	Long
EA700-16700	EA700-46700	EA700-76700
CONTACTS	CIRCUITS	
	POSITION 1	POSITION 2
1 N.O.	CW INITIAL CCW 	CW INITIAL CCW
1 N.C.	CW INITIAL CCW 	CW INITIAL CCW

OPERATIONAL DATA		
	POSITION 1 CCW	POSITION 2 CW
Position	1(CCW)	2(CW)
A. Trip Travel	16°	30°
B. Reset Travel	30°	26°
C. Min. Travel to Maintain	26°	30°
D. Recommended Travel	45°	45°
E. Total Travel	90°	90°
Torque	(inch Lbs.)	
M7 CAM	1 N.O. 1 N.C.	CW CCW
		12 13.5

To change Switch Operation from Cam Position 1 to Position 2, Operate Switch thru Angle B. Remove Lever and Reset at Initial Position.

Maintained Position Cam

The maintained cam is designed for those applications requiring maintained contacts.



Maintained Switches are available with two contact operations:

1. When the lever is moved clockwise the normally open contacts close and the normally closed contacts open. The lever is maintained in tripped position. As the lever is activated counterclockwise to starting position, normally open contacts open and normally closed contacts close.
2. When the lever is moved clockwise the normally open contacts close and the normally closed contacts open. This contact arrangement is maintained as the lever is spring returned to the starting position and until the lever is moved counterclockwise when the normally open contacts open and the normally closed contacts close.

Neutral Position Switches

ORDERING INFORMATION

N CAM – NEUTRAL POSITION – ALL CONTACTS OPEN

As lever is moved CW upper contacts close. As lever is spring returned to starting position upper contacts open. As lever is moved CCW from starting position lower contacts close. As lever is spring returned to starting position lower contacts open.

CATALOG NUMBERS		
MOUNTING (see page 40)		
STANDARD	Wide	Long
EA700-15000	EA700-45000	EA700-75000
CONTACTS		
2 N.O.	CIRCUITS 	

N CAM – NEUTRAL POSITION – ALL CONTACTS CLOSED

As lever is moved CW lower contacts open. As lever is spring returned to starting position lower contacts close. As lever is moved CCW from starting position upper contacts open. As lever is spring returned to starting position upper contacts close.

CATALOG NUMBERS		
MOUNTING (see page 40)		
STANDARD	Wide	Long
EA700-15100	EA700-45100	EA700-75100
CONTACTS		
2 N.C.	CIRCUITS 	

OPERATIONAL DATA

Direction of Rotation	CW	CCW
A. Trip Travel	11°	35°
B. Reset Travel	9°	13°
C. Recommended Travel	45°	45°
D. Total Travel	90°	90°
Torque	(Inch Lbs.)	
N CAM	2 N.O. CW	18
	2 N.O. CCW	13.5
	4 N.O. CW	9.5
	4 N.O. CCW	15
	2 N.C. CW	8
	2 N.C. CCW	13.5

*Available in short travel version with 13° trip – Consult Factory.

N1 – NEUTRAL POSITION – ALL CONTACTS OPEN

As lever is moved CW lower contacts close. As lever is spring returned to starting position lower contacts open. As lever is moved C W from starting position upper contacts close. As lever is spring returned to starting position upper contacts open.

CATALOG NUMBERS		
MOUNTING (see page 40)		
STANDARD	Wide	Long
EA700-15700	EA700-45700	EA700-75700
CONTACTS		
2 N.O.	CIRCUITS 	

N1 CAM – NEUTRAL POSITION – ALL CONTACTS CLOSED

As lever is moved CW upper contacts open. As lever is spring returned to starting position upper contacts close. As lever is moved CCW from starting position lower contacts open. As lever is spring returned to starting position lower contacts close.

CATALOG NUMBERS		
MOUNTING (see page 40)		
STANDARD	Wide	Long
EA700-15800	EA700-45800	EA700-75800
CONTACTS		
2 N.C.	CIRCUITS 	

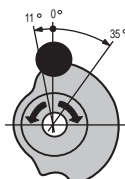
OPERATIONAL DATA

Direction of Rotation	CW	CCW
A. Trip Travel	31°	31°
B. Reset Travel	22°	12°
C. Recommended Travel	45°	45°
D. Total Travel	90°	90°
Torque	(Inch Lbs.)	
N1 CAM	2 N.O. CW	15
	2 N.O. CCW	19.5
	4 N.O. CW	16.5
	4 N.O. CCW	20.5
N1 CAM	2 N.C. CW	15
	2 N.C. CCW	19.5
	4 N.C. CW	16.5
	4 N.C. CCW	20.5

Neutral Position Cam

The neutral position cam is designed for applications requiring a neutral position in the contact arrangement. Both the operating lever and the cam are spring returned to starting position. The maximum lever travel in either direction is 90°.

See Page 40 for Mounting Dimensions



This is the contact action of neutral switches:

- As the lever is moved clockwise the lower contact transfers. As the lever is spring returned to starting position the lower contact is returned to its original position.
- As the lever is moved counterclockwise from starting position the upper contact transfers. As the lever is spring returned to starting position the upper contact returns.

Neutral Position 2 N.O. or 2 N.C.

SNAP-LOCK®

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