



**2 N.O. - 2 N.C.**

## Specifications

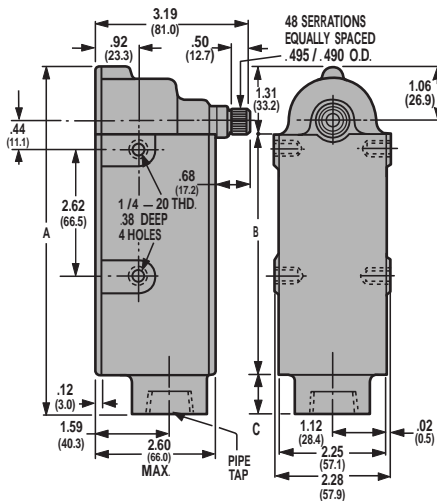
1. Enclosure is water, oil and dust tight.
2. Enclosure meets NEMA Type 1, 4 and 13 requirements.
3. Contacts made of silver alloy. Contact shifting mechanism is locked in position by the latches until switch lever is actuated.
4. Standard Temperature Range: -20°C to +90°C
5. Operating lever is adjustable 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	
	Standard	For Neutral Position Only
125V-A.C.	20.0 Amps*	10.0 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*

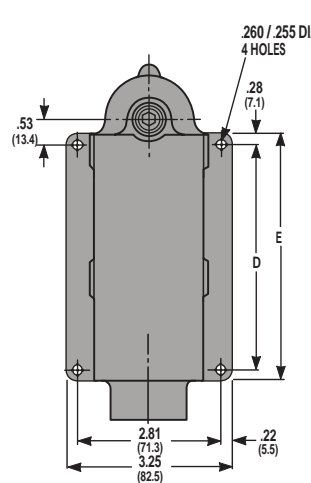
\*75-100% Power Factor

## Dimensions and Mounting

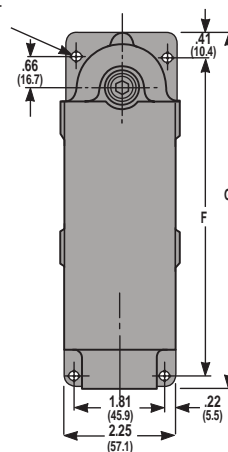
Series EA700 Snap-Lock Limit Switches are specifically designed for flexibility in mounting arrangements. Basic design permits mounting for either side or back. Shown here are the (1) STANDARD for side mounting; (2) WIDE for back mounting; (3) LONG for back mounting.



**Standard Mounting**



**Wide Mounting**



**Long Mounting**

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

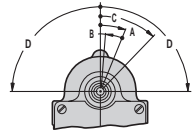
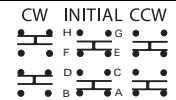
CONTACT SEQUENCE	STANDARD SWITCH				MOUNTING STYLE			
	PIPE TAP SIZE	A	B	C	WIDE		LONG	
					D	E	F	G
2 N.O. - 2 N.C.	1-11 1/2 NPT	7.06	4.94	0.81	4.38	4.94	6.41	7.06

Standard Switches

ORDERING INFORMATION

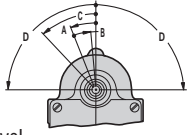
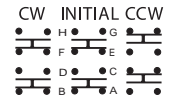
**CW OPERATION ONLY (Combination B-1/B-2 Cam)**

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	
EA700-20000	EA700-50000	EA700-80000	
CONTACTS		CIRCUITS	
2 N.O. 2 N.C.		CW INITIAL CCW 	
		A. Trip Travel ..... 18° B. Reset Travel ..... 14° C. Recommended Travel ..... 30° D. Total Travel Available..... 90° Torque (Inch Lbs.) 2 N.O. - 2 N.C. .... 27	

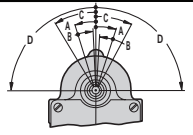
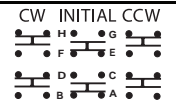
**CCW OPERATION ONLY (Combination B-1/B-2 Cam)**

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	
EA700-20001	EA700-50001	EA700-80001	
CONTACTS		CIRCUITS	
2 N.O. 2 N.C.		CW INITIAL CCW 	
		A. Trip Travel ..... 18° B. Reset Travel ..... 14° C. Recommended Travel ..... 30° D. Total Travel Available..... 90° Torque (Inch Lbs.) 2 N.O. - 2 N.C. .... 27	

**CW & CCW OPERATION (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	
EA700-20100	EA700-50100	EA700-80100	
CONTACTS		CIRCUITS	
2 N.O. 2 N.C.		CW INITIAL CCW 	
		A. Trip Travel ..... 18° B. Reset Travel ..... 14° C. Recommended Travel ..... 30° D. Total Travel Available..... 90° Torque (Inch Lbs.) 2 N.O. - 2 N.C. .... 27	

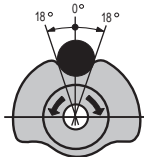
Typical Cams

**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 44)		
STANDARD	Wide	Long
EA700-26000	EA700-56000	EA700-86000
CONTACTS	CIRCUITS	
	POSITION 1	POSITION 2
2 N.O.		
2 N.C.		

**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. CW 6  
1 N.C. CCW 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
EA700-26700	EA700-56700	EA700-86700
CONTACTS	CIRCUITS	
	POSITION 1	POSITION 2
2 N.O.		
2 N.C.		

**OPERATIONAL DATA**

POSITION 1 CCW

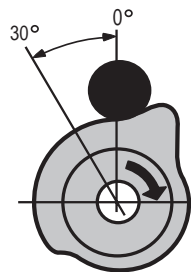
POSITION 2 CW

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. CW 12  
1 N.C. CCW 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 44)		
STANDARD	Wide	Long
EA700-25000	EA700-55000	EA700-85000
CONTACTS	CIRCUITS	
4 N.O.		

**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	18
	2 N.C. CCW	13.5

**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 CCW from starting position upper contacts close. As lever is spring returned to starting position upper contacts open.

CATALOG NUMBERS		
MOUNTING (see page 44)		
STANDARD	Wide	Long
EA700-25102	EA700-55102	EA700-85102
CONTACTS	CIRCUITS	
4 N.O.		

**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

**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.

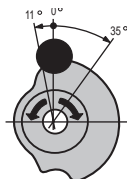
CATALOG NUMBERS		
MOUNTING (see page 44)		
STANDARD	Wide	Long
EA700-25108	EA700-55108	EA700-85108
CONTACTS	CIRCUITS	
4 N.C.		

**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 44 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 4 N.O. or 4 N.C.

**SNAP-LOCK®**

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