

# Honeywell

## Interactive Catalog Replaces Catalog Pages

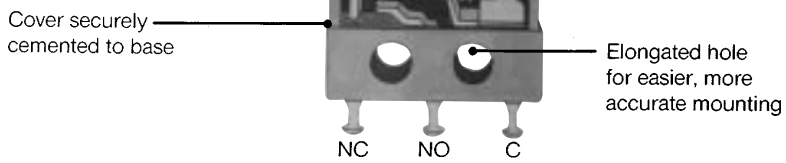
Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



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**Sensing and Control**  
Honeywell Inc.  
11 West Spring Street  
Freeport, Illinois 61032



- Optional bifurcated gold contacts for maximum reliability
- Long mechanical life up to 10,000,000 cycles—95% survival for 11SX series 1,000,000 cycles—95% survival for 1SX series
- Temperature tolerance  $-65^{\circ}$  to  $+250^{\circ}\text{F}$  ( $-54$  to  $121^{\circ}\text{C}$ ) on standard construction
- High temperature designs for up to  $+400^{\circ}\text{F}$  ( $204^{\circ}\text{C}$ ) for 100 hours
- Variety of integral and auxiliary actuators
- Choice of several terminal styles
- MIL-S-8805 qualified products available
- UL recognized File #E12252, CSA certified file # LR41372

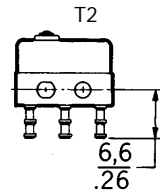
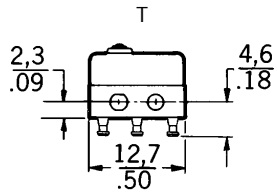
Miniature/  
Subminiature

### AVAILABLE TERMINALS

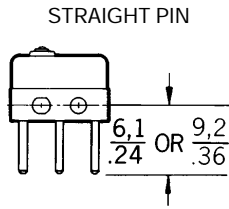
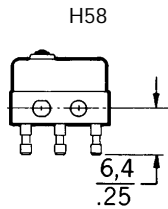
SX switches are available with several types of terminations. The T and T2 terminals provide easy solder lead wire attachment. The H58 terminal offers the simplicity of quick-connect and mate with AMP .058-inch receptacles. Pin terminals allow easy attachment to printed circuit boards.

### GENERAL INFORMATION

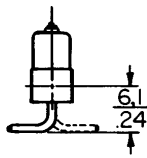
SX subminiature basic switches are small size precision snap-action switches from MICRO SWITCH. These switches are ideal where savings in space and weight are important. Unless otherwise noted, all listings have silver contacts.



Mounting torque Round head 2-56 UNC 438 screws—2 inch pounds max.



H391, H392  
90° FORMED PIN



Mate with Amp Inc. Part No. 640024-1 Std.

Dimensions shown are for reference only

Key:  $\frac{0,0}{0.00} = \text{mm}$   
 $\frac{0.00}{0.00} = \text{inches}$

This section covers only **40** of our most popular SX Series catalog listings. If you don't find what you're looking for, it's likely one of the approximately **200** other active SX listings will meet your needs. Contact the 800 number.



Dim. Dwg. Fig. 1  
(Except Fig. 2  
for 91SX39-T  
and 93SX34-T)

	(Bifurcated gold contacts)	<b>H</b>	<b>2.5 to 5</b>	<b>1</b>	<b>.020</b>	<b>.004</b>	<b>.002</b>	<b>.320</b>
<b>3SX1-T</b>	Applications requiring gold contacts (1SX type)	1 Amp <b>D</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>12SX1-T</b>	Best reliability with higher current rating (Bifurcated gold contacts)	1 Amp <b>D</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,076 <b>.003</b>	8,13 <b>.320</b>
<b>12SX3-T</b>	Lowest differential travel with bifurcated gold contacts	1 Amp <b>H</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,025 <b>.001</b>	8,13 <b>.320</b>
<b>13SX21-T</b>	Applications requiring gold contacts. 11SX type.	1 Amp <b>D</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,051 <b>.002</b>	8,13 <b>.320</b>
<b>23SX39-T (MS24547-2)</b>	MIL-S-8805 applications requiring gold contacts +180°F (82°C) max. use	1 Amp <b>D</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>23SX39-T2 (MS24547-5)</b>	As above, with T2 terminals	1 Amp <b>D</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>93SX39-T M8805/109-03</b>	.156" wide, with gold contacts +180°F (82°C)	1 Amp <b>D</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>411SX21-T M8805/106-01</b>	+400°F (204°C) for 100 hours	<b>G</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.220</b>
<b>413SX21-T M8805/106-02</b>	+400°F (204°C) for 100 hours	<b>L</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,051 <b>.002</b>	8,13 <b>.220</b>
<b>11SX1-T</b>	Lowest differential travel	3 Amps <b>E</b>	0,97 <b>3.5</b>	0,21 <b>0.75</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,025 <b>.001</b>	8,13 <b>.320</b>
<b>11SX21-T</b>	Most applications	5 Amps <b>A</b>	0,7 to 1,39 <b>2.5 to 5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,051 <b>.002</b>	8,13 <b>.320</b>
<b>11SX22-T</b>	For use in sealed enclosures.	5 Amps <b>A</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,076 <b>.003</b>	8,13 <b>.320</b>
<b>17SX21-T</b>	Best stability under varying humidity. 11SX type.	5 Amps <b>A</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,051 <b>.002</b>	8,13 <b>.320</b>
<b>1SX1-T</b>	Up to 7 amps load handling	7 Amps <b>B</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>1SX12-T</b>	Low differential travel	7 Amps <b>C</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,051 <b>.002</b>	8,13 <b>.320</b>
<b>1SX48-T</b>	Added overtravel	7 Amps <b>B</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,25 <b>.010</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>2SX1-T</b>	Lower force	7 Amps <b>B</b>	0,83 <b>3</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>4SX1-T</b>	Operating in temperature to +400°F (204°C) for 100 hours	7 Amps <b>I</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>21SX1-T</b>	Best stability under varying humidity (1SX type)	7 Amps <b>B</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>21SX39-T (MS24547-1)</b>	MIL-S-8805 application requirements +180°F (82°C)	7 Amps <b>F</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>21SX39-T2 (MS24547-4)</b>	MIL-S-8805 application requirements +180°F (82°C)	7 Amps <b>F</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>
<b>91SX39-T M8805/109-01</b>	.156" wide version of standard SX +180°F (82°C)	7 Amps <b>F</b>	1,39 <b>5</b>	0,28 <b>1</b>	0,51 <b>.020</b>	0,1 <b>.004</b>	0,13 <b>.005</b>	8,13 <b>.320</b>

\*±0,38 mm  
±.015 in.



	straight lever	<b>A</b>	<b>1.76</b>	<b>.32</b>	<b>.065</b>	<b>.014</b>	<b>.020</b>	<b>.332±.045</b>
<b>313SX1-T</b>	As above with gold contacts	1 Amp <b>D</b>	0,49 <b>1.76</b>	0,09 <b>.32</b>	1,65 <b>.065</b>	0,36 <b>.014</b>	0,51 <b>.020</b>	8,43±1,14 <b>.332±.045</b>



Dim. Dwg. Fig. 3

<b>311SX2-T</b>	.505 inch (12,8 mm) straight lever	5 Amps <b>A</b>	0,31 <b>1.1</b>	0,05 <b>.18</b>	2,92 <b>.115</b>	0,64 <b>.025</b>	0,89 <b>.035</b>	8,26±1,91 <b>.325±.075</b>
<b>313SX2-T</b>	As above with gold contacts	1 Amp <b>D</b>	0,31 <b>1.1</b>	0,05 <b>.18</b>	2,92 <b>.115</b>	0,64 <b>.025</b>	0,89 <b>.035</b>	8,26±1,91 <b>.325±.075</b>

Miniature/  
Subminiature



Dim. Dwg. Fig. 4

<b>311SX3-T</b>	.965 inch (24,5 mm) straight lever	5 Amps <b>A</b>	0,20 <b>.71</b>	0,03 <b>.11</b>	4,70 <b>.185</b>	0,61 <b>.024</b>	1,52 <b>.060</b>	7,75±2,92 <b>.305±.115</b>
<b>313SX3-T</b>	As above with gold contacts	1 Amp <b>D</b>	0,20 <b>.71</b>	0,03 <b>.11</b>	4,70 <b>.185</b>	0,61 <b>.024</b>	1,52 <b>.060</b>	7,75±2,92 <b>.305±.115</b>



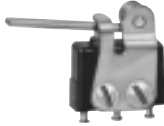
Dim. Dwg. Fig. 5

<b>311SX4-T</b>	.042 inch (1,1 mm) simulated roller lever	5 Amps <b>A</b>	0,58 <b>2.1</b>	0,11 <b>.39</b>	1,27 <b>.050</b>	0,25 <b>.010</b>	0,38 <b>.015</b>	14,15±0,91 <b>.557±.036</b>
<b>313SX4-T</b>	As above with gold contacts	1 Amp <b>D</b>	0,58 <b>2.1</b>	0,11 <b>.39</b>	1,27 <b>.050</b>	0,25 <b>.010</b>	0,38 <b>.015</b>	14,15±0,91 <b>.557±.036</b>




Dim. Dwg. Fig. 6



<b>311SX5-T</b>	.459 inch (11,7 mm) simulated roller lever	5 Amps <b>A</b>	0,31 <b>1.1</b>	0,05 <b>.18</b>	2,67 <b>.105</b>	0,56 <b>.022</b>	0,89 <b>.035</b>	14,86±1,65 <b>.585±.065</b>
<b>313SX5-T</b>	As above, with gold contacts	1 Amp <b>D</b>	0,31 <b>1.1</b>	0,05 <b>.18</b>	2,67 <b>.105</b>	0,56 <b>.022</b>	0,89 <b>.035</b>	14,86±1,65 <b>.585±.065</b>

Listing	Description	inches	ounces	ounces	inches	inches	inches	inches	inches
 JX-20	Straight lever	18,3 .72	0,28 1 approx.	0,04 .14	—	0,76 .030 approx.	0,76 .030 approx.	10,8 .425 approx.	12,3 .485 approx.
JX-219	Straight lever (For higher temp.)	18,3 .72	0,28 1 .14	0,04 .14	—	0,76 .030 approx.	0,76 .030 approx.	10,8 .425 approx.	12,3 .485 approx.



Dim. Dwg. Fig. 7

 JX-25	Roller lever	16,5 .65	0,42 1.5	0,04 1.4	—	0,51 .020	0,76 .030	14,9=1,14 .585 = .045	168 .660 max.
JX-220	Roller lever (For higher temp.)	16,5 .65	0,42 1.5	0,04 .14	—	0,51 .020	0,76 .030	14,9=1,14 .585 = .045	16,8 .660 max.


Dim. Dwg. Fig. 8

 JX-40	Straight leaf	9,4 .37†	1,95 7	0,56 2	.225 approx.	0,38 .015	0,64 .025	7,5 .295	12,3 .485 ref.
JX-95	Straight leaf (For higher temp.)	9,4 .37†	1,95 7	0,56 2	.225 approx.	0,38 .015	0,64 .025	7,5 .295	12,3 .485 ref.
 JX-41**	Reverse leaf	9,4 .37†	1,67 6	0,28 1	.110 approx.	0,38 .015	0,64 .025	7,5 .295	9,4 .370 ref.

Dim. Dwg. Fig. 9

 JX-45	Roller leaf	6,1 .24†	1,95 7	0,28 1	.225 approx.	0,38 .015	0,64 .025	12,2 .480	16,5 .650 ref.
JX-96	Roller leaf (For higher temp.)	6,1 .24†	1,95 7	0,28 1	.225 approx.	0,38 .015	0,64 .025	12,2 .480	16,5 .650 ref.
 JX-51**	Reverse roller leaf	7,6 .30†	1,67 6	0,56 2	.110 approx.	0,38 .015	0,64 .025	12,8 .505	14,7 .580 ref.

Dim. Dwg. Fig. 9

 JX-4	Tandem leaf	7,9 .31	4,17 15	0,83 3	.065 approx.	0,20 .008	0,76 .030	7,6 .300	9,40 .370 ref.
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Dim. Dwg. Fig. 10

\*\*Switch is mounted with plunger end reversed from JX-40.  
†"A" measurement is from center of mounting hole nearest tip of lever to the point indicated on drawing.

NOTE: Above actuators should be used at temperatures below +300°F (149°C); except listings JX-95, JX-96, JX-219 and JX-220 are for use with the 4SX1-T to 400°F. (204°C).

Except where stated †† ±0,76 mm ±.030 in.

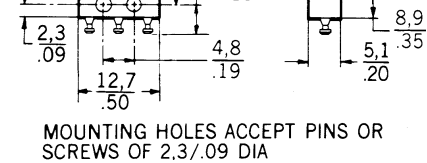


Fig. 1

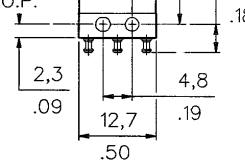


Fig. 2

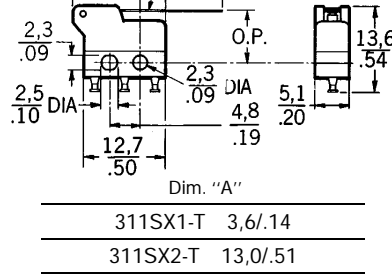
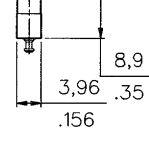


Fig. 3

INTEGRAL LEVERS

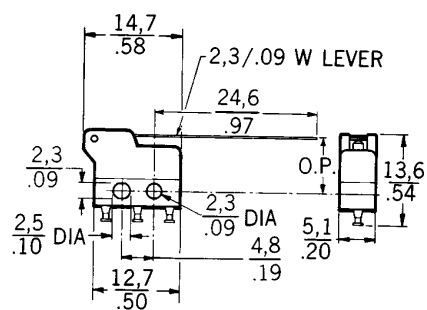


Fig. 4

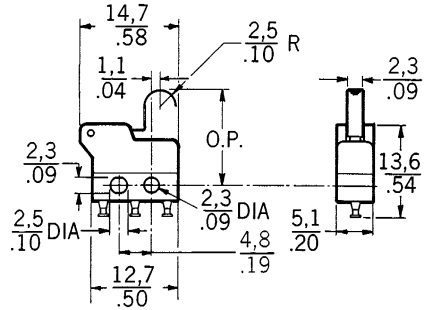


Fig. 5

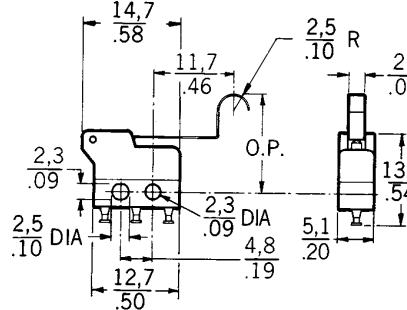


Fig. 6

Interchangeable with 1SX-1T switch with JX-25 actuator.

Miniature/  
Subminiature

AUXILIARY ACTUATORS

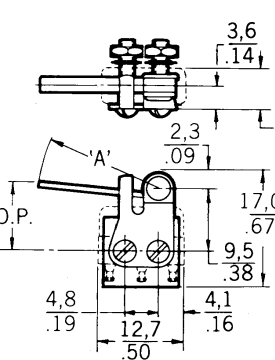


Fig. 7

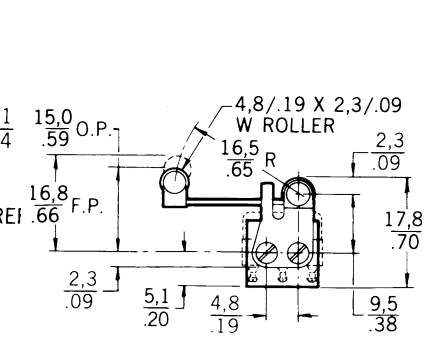


Fig. 8

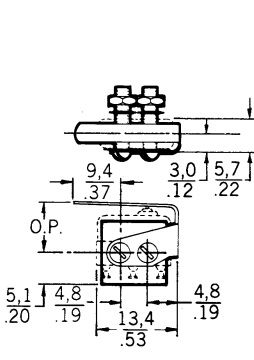


Fig. 9

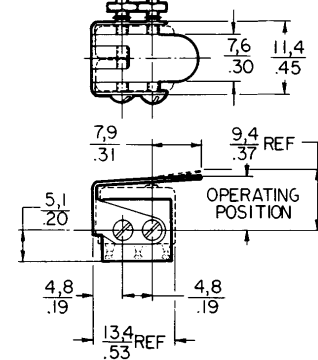


Fig. 10

Switches are not included with actuator.

Mounting holes accept pins or screws of .087 diameter (2,21 mm).

Key: 0,0 = mm  
0.00 = inches

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