

Honeywell

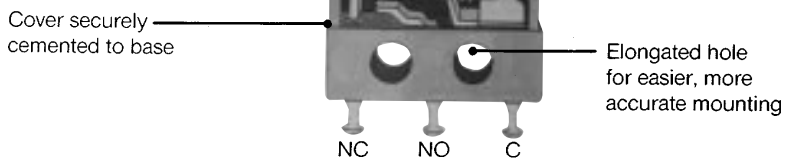
Interactive Catalog Replaces Catalog Pages

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° to $+250^{\circ}\text{F}$ (-54 to 121°C) on standard construction
- High temperature designs for up to $+400^{\circ}\text{F}$ (204°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

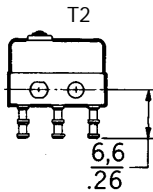
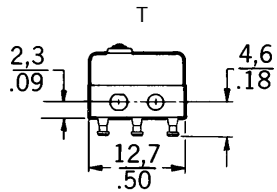
Miniature/
Subminiature

AVAILABLE TERMINALS

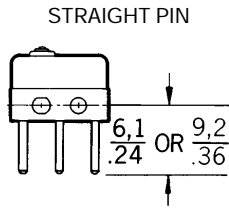
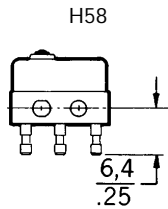
SX switches are available with several types of terminations. The T and T2 terminals provide easy solder lead wire attachment. The H58 terminal offers the simplicity of quick-connect and mate with AMP .058-inch receptacles. Pin terminals allow easy attachment to printed circuit boards.

GENERAL INFORMATION

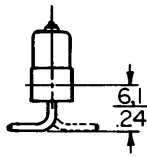
SX subminiature basic switches are small size precision snap-action switches from MICRO SWITCH. These switches are ideal where savings in space and weight are important. Unless otherwise noted, all listings have silver contacts.



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

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

*±0,38 mm
±.015 in.



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



Dim. Dwg. Fig. 3

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

Miniature/
Subminiature



Dim. Dwg. Fig. 4

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



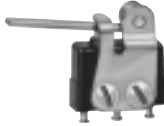
Dim. Dwg. Fig. 5

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




Dim. Dwg. Fig. 6



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

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.

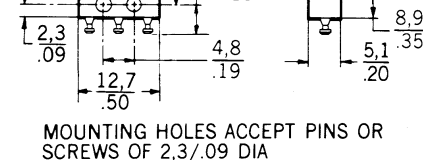


Fig. 1

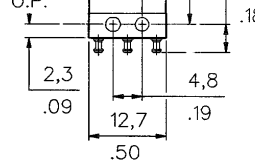
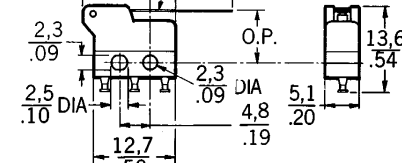
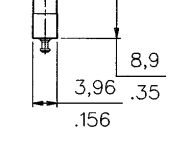


Fig. 2



Dim. "A"

311SX1-T	3,6/.14
311SX2-T	13,0/.51

Fig. 3

INTEGRAL LEVERS

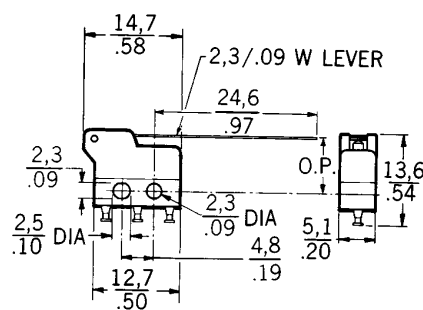


Fig. 4

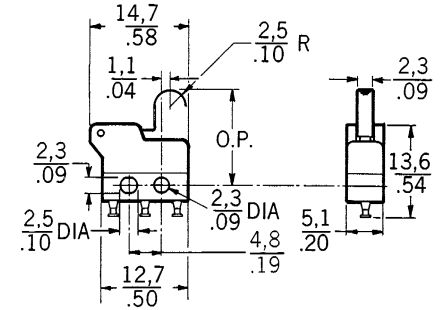


Fig. 5

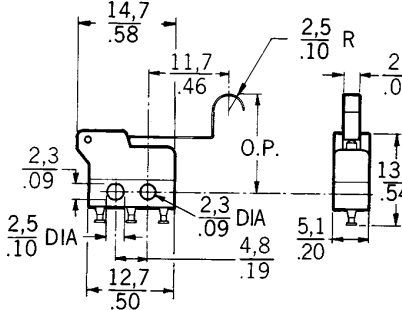


Fig. 6

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

Miniature/
Subminiature

AUXILIARY ACTUATORS

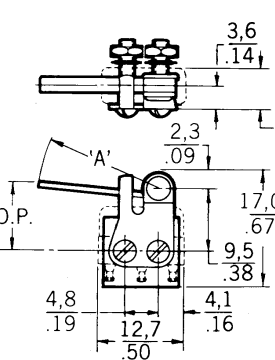


Fig. 7

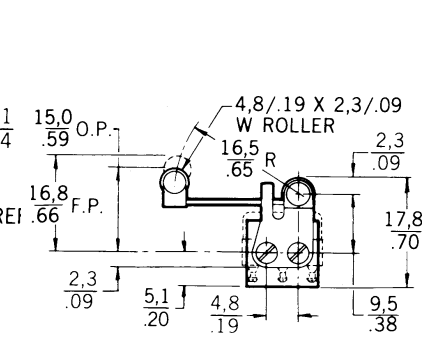


Fig. 8

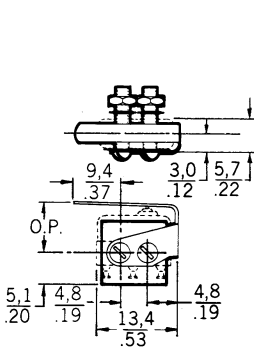


Fig. 9

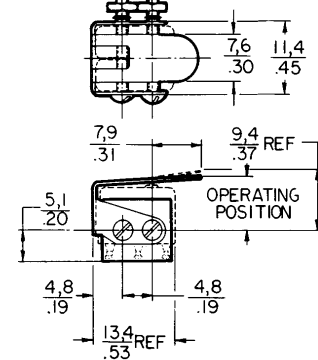


Fig. 10

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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