

SM Series

Basic Switches

Subminiature

Characteristics: O.F. — Operating Force; R.F. — Release Force; P.T. — Pretravel; O.T. — Overtravel; D.T. — Differential Travel; O.P. — Operating Position; F.P. — Free Position

* All characteristics are taken with actuator assembled to Catalog Listing 11SM3-T as shown.

AUXILIARY ACTUATORS

Switches are not included with the actuators.



Dim. Dwg. Fig. 14



Dim. Dwg. Fig. 14



Dim. Dwg. Fig. 14



Dim. Dwg. Fig. 16



Dim. Dwg. Fig. 16



Dim. Dwg. Fig. 16



ORDER GUIDE

Catalog Listing	Description	Actuator Length "A" mm inches	O.F. max. newtons ounces	R.F. min. newtons ounces	P.T. max. mm inches	O.T. min. mm inches	D.T. max. mm inches	O.P. mm inches	F.P. max. mm inches
JS-2	Straight leaf	16,8 .66	2,78 10	0,56 2	1,98 .078	0,38 .015	0,38 .015	8,89±0,38 .350±.015	11,3 .445

JS-5	Roller leaf (Bronze roller)	15 .59	2,78 10	0,83 3	1,98 .078	0,38 .015	0,38 .015	14,2±0,38 .580±.015	16,9 .665
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JS-7	Formed leaf (Simulated roller)	14,7 .58	2,78 10	0,56 2	2,39 .094	0,79 .031	0,38 .015	9,65±0,38 .380±.015	12,1 .475
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JS-220	Straight lever	26,2† 1.03	0,28 1	0,04 .14	3,18 .125 approx.	0,76 .030	0,76 .030	10,3 .406 approx.	—
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JS-246	Roller lever (Steel roller)	25,4† 1.00	0,28 1	0,04 .14	3,18 .125 approx.	0,76 .030	0,76 .030	14,3 .562 approx.	—
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JS-221	Formed lever (Simulated roller)	25,4† 1.00	0,28 1	0,04 .14	3,18 .125 approx.	0,76 .030	0,76 .030	11,6 .455 approx.	—
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JS-33**	Tandem leaf	5,3 .21	5,00 18	2,78 10	2,36 .093	0,15 .006	0,38 .015	8,89±0,38 .350±.015	10,5 .415
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JS-31**	Tandem roller leaf (Bronze roller)	4,3 .17	11,1 40	4,45 16	2,36 .093	0,13 .005	0,38 .015	14,5±0,38 .570±.015	16,1 .635
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**Travel characteristics on tandem actuators vary with actual basic switch characteristics.

NOTE: Above actuators should be used below +300°F.

See page 79 for other actuators that may be used with SM Switches at higher temperatures.

†"A" measurement is from the pivot point of lever to the point indicated on drawing.

Basic Switches

Subminiature

MOUNTING DIMENSIONS (for reference only)

OPERATING POSITION

7.6
.30
2.3
.09
9.5
.38
19.8
.78
4.8
.19
2.8
.11
2.3
.09
12.4
.49
6.4
.25
1.3
.05

Fig. 1

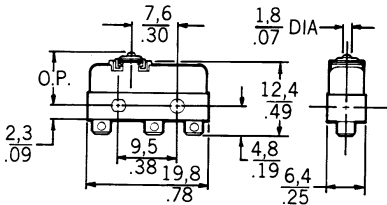


Fig. 2

Fig. 4

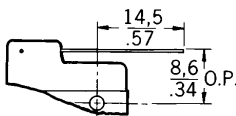


Fig. 5

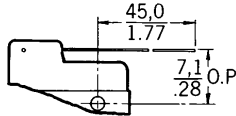


Fig. 6

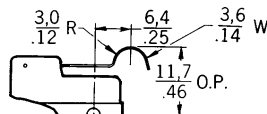


Fig. 7

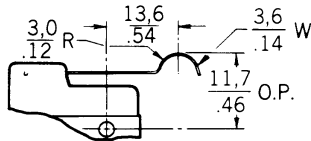


Fig. 8

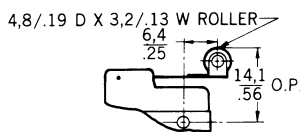


Fig. 9

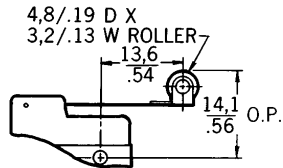


Fig. 10

Technical drawing of a corrosion resistant steel leaf. The drawing shows two views: a front view (left) and a side view (right). Dimensions are given in inches (top) and millimeters (bottom).

Front View Dimensions:

- Top flange width: 7.6 in, 30 mm
- Top flange thickness: 2.3 in, 59 mm
- Top flange hole diameter: 0.9 in, 23 mm
- Top flange hole spacing: 19.8 in, 508 mm
- Top flange hole diameter: 0.30 in, 7.6 mm
- Top flange hole spacing: 8.9 in, 226 mm
- Top flange hole diameter: 0.35 in, 8.9 mm
- Top flange hole spacing: 4.8 in, 122 mm
- Top flange hole diameter: 0.19 in, 4.8 mm
- Top flange hole spacing: 9.5 in, 241 mm
- Top flange hole diameter: 0.38 in, 9.5 mm
- Top flange hole spacing: 19.8 in, 508 mm
- Top flange hole diameter: 0.78 in, 19.8 mm

Side View Dimensions:

- Top flange width: 4.1 in, 104 mm
- Top flange thickness: 0.16 in, 4.1 mm
- Top flange hole diameter: 0.41 in, 10.4 mm
- Top flange hole spacing: 6.4 in, 163 mm
- Top flange hole diameter: 0.25 in, 6.4 mm

Labels:

- CORROSION RESISTANT STEEL LEAF
- O.P.

Fig. 11

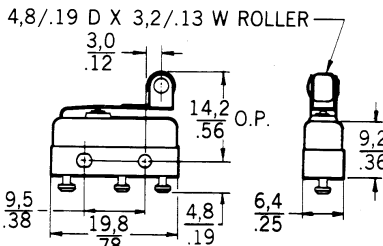


Fig. 12

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

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

4.8/.19 D X 3.0/.12 W ROLLER

Dimensions (inches / millimeters):

- Top left: 5.7 / .22
- Top center: 7.6 / .30
- Top right: 3.0 / .12
- Bottom left: 2.3 / .09
- Bottom center: 9.5 / .38
- Bottom right: 5.1 / .20
- Far right: 6.9 / .27
- Overall width: 19.8 / .78

Other labels: 'A', O.P.

Fig. 14

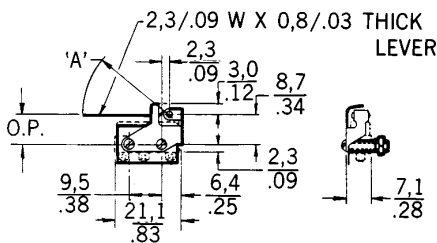


Fig. 16

Switches are not included with the actuators.