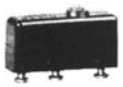
Basic Switches
Subminiature

SM Series

2

SWITCHES & KNOBS



GENERAL INFORMATION

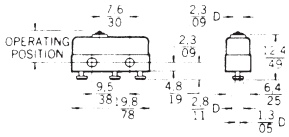
SM subminiature switches are slightly larger than SX switches. These switches combine small size and light weight with ample electrical capacity, precision operation and long life. Unless otherwise noted, all listings have silver contacts.

FEATURES

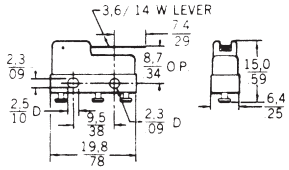
- Power load switching capabiltiy available to 11 amps (VAC) — silver contacts
- Optional gold contacts for low energy applications
- Long mechanical life of 10,000,000 cycles — 95% survival for 11SM series
- Standard temperature range –65° to + 180°F (–54° to 85°C)
- Variety of integral and auxiliary actuators
- Choice of several terminal styles
- Listings available which meet MIL-S-8805 qualified product list.
- UL recognized, CSA certified

TYPICAL DIMENSIONS
(For reference only)

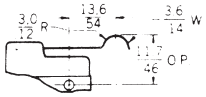
T Terminals



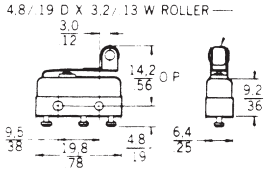
Lever Type



Simulated Lever Type



Roller Leaf Type



PIN PLUNGER ORDER GUIDE

Catalog Listing	Recommended For	Electrical Data and UL Code	O.F. newtons ounces	O.T. min. mm inches	D.T. max. mm inches	O.P.* mm inches
1SM1	Original design. Solder posts.	5 Amps **L4**	0,83-1,39 **3-5**	0,13 **.005**	0,1 **.004**	8,38 **.330**
11SM1	Most applications, long life. Solder posts.	5 Amps **L4**	0,83-1,39 **3-5**	0,13 **.005**	0,1 **.004**	8,38 **.330**
11SM1-T	Same as above. Solder terminals.	5 Amps **L4**	0,83-1,39 **3-5**	0,13 **.005**	0,1 **.004**	8,38 **.330**
11SM23-T	Application requiring gold contacts	1 Amp **L22**	0,83-1,39 **3-5**	0,13 **.005**	0,1 **.004**	8,38 **.330**
11SM401-T	Less differential travel	5 Amps **L4**	0,97 **3.5** max.	0,13 **.005**	0,025 **.001**	8,38 **.330**
11SM701-T	Lower force	4 Amps **L119**	0,56 **2**	0,13 **.005**	0,051 **.002**	8,38 **.330**
21SM284 (MS25085-2)	MIL-S-8805 application requirements	5 Amps **—**	0,83-1,39 **3-5**	0,13 **.005**	0,1 **.004**	8,38 **.330**
411SM1	Sealed plunger construction	5 Amps **L4**	0,83-2,09 **3-7.5**	0,13 **.005**	0,1 **.004**	8,38 **.330**

INTEGRAL LEVER ORDER GUIDE

Catalog Listing	Recommended For	Electrical Data and UL Code	O.F. newtons ounces	O.T. min. mm inches	D.T. max. mm inches	O.P.* mm inches
311SM1-T	.285 inch (7,24 mm) straight lever	5 Amps **L4**	0,39 **1.4**	0,51 **.020**	0,48 **.019**	8,64 ± 1,5 **.340 ± .060**
311SM2-T	.565 inch (14,35 mm) straight lever	5 Amps **L4**	0,31 **1.1**	0,66 **.026**	0,69 **.027**	8,51 ± 2 **.335 ± .080**
311SM3-T	1.765 inch (44,8 mm) straight lever	5 Amps **L4**	0,15 **.53**	1,45 **.057**	2,8 **.110**	7,11 ± 4,3 **.280 ± .170**
311SM4-T	.251 inch (6,38 mm) simulated roller lever	5 Amps **L4**	0,39 **1.4**	0,46 **.018**	0,48 **.019**	11,7 ± 1,5 **.460 ± .060**
311SM5-T	.535 inch (13,6 mm) simulated roller lever	5 Amps **L4**	0,31 **1.1**	0,66 **.026**	0,69 **.027**	11,56 ± 2 **.455 ± .080**
311SM6-T	.251 inch (6,38 mm) roller lever	5 Amps **L4**	0,39 **1.4**	0,46 **.018**	0,48 **.019**	14,2 ± 1,5 **.560 ± .060**

INTEGRAL LEAF ORDER GUIDE

Catalog Listing	Recommended For	Electrical Data and UL Code	O.F. newtons ounces	O.T. min. mm inches	D.T. max. mm inches	O.P.* mm inches
111SM1-T	Force and stability of flexible leaf actuator	5 Amps **L4**	1,95 **7**	0,76 **.030**	0,76 **.030**	8,89 ± 0,76 **.350 ± .030**
111SM2-T	Flexible leaf with roller	5 Amps **L4**	1,95 **7**	0,76 **.030**	0,64 **.025**	14,3 ± 0,76 **.562 ± .030**

Except where stated * ± 0,38 mm ± .015 in.