



MICRO SWITCH™  
Premium Subminiature Basic Switches  
**SM Series**



# MICRO SWITCH™ SM Series

## Premium Subminiature Basic Switches

The industry-defining name in snap-action switches, Honeywell MICRO SWITCH™ premium subminiature switches are designed for repeatability and enhanced product life. The MICRO SWITCH™ SM Series delivers consistent performance within a range of conditions.

The MICRO SWITCH™ SM Series' small size and light weight are combined with ample electrical capacity, precision operation, and extended life. Featuring high precision and repeatability, the SM Series offers gold contacts for low-energy switching and gold bifurcated contacts for maximum reliability. Bifurcated contacts provide parallel redundancy within the SM switch.

The SM switch is available for power-duty switching up to 11 A (Vac) or 1/4 HP (Vac).

### *What makes our switches better?*

- Industry-leading life cycle rating reduces the need to replace switches over life in an OEM platform – reducing total system cost
- Very wide temperature range allows for years of reliable performance in the harshest of conditions
- MIL-PRF-8805 qualified listings
- Operating forces as low as 0,06 N [6 g] and differential travel as low as 0,025 mm [0.001 in] delivers consistent, precise switch characteristics



***Designed for  
precision applications.***

COST OPTIMIZATION • PERFORMANCE  
RELIABILITY • GLOBAL ACCEPTANCE

# Features and Benefits

## LONG LIFE

With a mechanical life of up to **10,000,000 operations**, SM Series switches boast an industry-leading life cycle.

## APPLICATION FLEXIBILITY

MICRO SWITCH™ SM Series delivers a selection of actuation, electrical termination, and operating characteristics along with **high-temperature construction options**.

*Life of up to 10,000,000 cycles*

## INDUSTRY-LEADING TEMPERATURE RANGE

With a wide temperature range of -54 °C to 204 °C [-65 °F to 400°F], SM Series switches allow for **years of reliable performance in harsh conditions**.

*Precise switch characteristics*

## COMPACT AND ROBUST

Built from **military-grade components**, MICRO SWITCH™ SM switches deliver MIL-PRF-8805 qualified listings in a lightweight, small package. MICRO SWITCH™ SM switches are available with FAA-PMA approvals for commercial aircraft applications.

## EASILY CONTROLS LOW-VOLTAGE DC APPLICATIONS

Switches available with a choice of **silver or gold-plated, or gold bifurcated contacts** to handle a variety of electrical load requirements.

## GLOBAL APPROVALS

UL/CSA, cUL, ENEC, and CE approvals allows the customer to **utilize switches in products sold across the globe** - in some of the most regulated regions.

# Potential Applications



## AEROSPACE

- In precision switch assemblies for commercial aircraft to monitor doors for “closed” and “locked” position
- Monitor whether landing gear is “up” or “down and locked”
- In precision switch assemblies for commercial cockpit applications for pushbuttons, toggle, or joystick assemblies
- MIL-PRF-8805 listings suitable for precision switch assemblies in military applications
- FAA-PMA approvals for commercial aircraft



## INDUSTRIAL

- In precision switch assemblies for pressure switches and temperature switches
- In power generation, fuel level switch for gas and oil



# MICRO SWITCH™ Premium Subminiature Basic Switches

Table 1. Specifications

Characteristic	Parameter
Differentiator	low operating force to 2 oz. max; power load switching capability to 11 A; motor load handling capacity to 1/4 HP (Vac)
Ampere rating	0.1 A to 11 A
Circuitry	SPDT
Operating force	0.04 oz to 2 oz
Termination	quick connect, solder, pcb
Actuator	pin plunger, straight lever, roller lever, simulated roller lever, paddle lever
Voltage	115 Vac, 125 Vac, 250 Vac, 30 Vdc
Agency approvals	UL, CE, CSA, ENEC, MIL-PRF-8805, FAA-PMA
Agency file information	CE: 61058-1; UL: E12252; CSA: LR41372
Operating temperature	-54 °C to 121 °C [-65 °F to 250 °F]; select catalog listings 204 °C [400 °F]
Contacts	silver, gold plated, bifurcated gold
Housing	phenolic
Sealing	sealed plunger on 411SM Series, other SM Series not weather sealed
Mechanical life	up to 10,000,000 operations for 11SM listings up to 80,000 operations for 1SM/14SM listings up to 1,000,000 operations for gold bifurcated contacts
Size	12,7 mm H x 6,35 mm W x 20,3 mm L [0.5 in H x 0.25 in W x 0.8 in L]

## Electrical data and UL codes

Table 2. UL Electrical Ratings

Code	Circuitry	Electrical data and UL codes
J	SPDT	5 A res., 3 A ind., (sea level), 5 A res., 2.5 A ind., (50,000 feet), 28 Vdc. UL rating: 5 A, 250 Vac
K	SPDT	UL rating: 5 A, 125 or 250 Vac
M	SPDT	UL rating: 11 A and 1/4 hp, 125 or 250 Vac
N	SPDT	1 A res., 0.5 A ind., 30 Vdc. UL rating: 1 A, 125 Vac
P	SPDT	1 A res., 30 Vdc. UL rating: .1 A, 125 Vac
R	SPDT	5 A res., 3 A ind., 2.4 A lamp load (sea level), 5 A res., 2.5 A ind., 2.4 A lamp load, (50,000 feet), 28 Vdc. 5 A res., 5 A ind., 1.5 A lamp load, 115 Vac. 60 Hz (sea level)
S	SPDT	UL rating: 4 A, 250 Vac

O.F. • Operating force  
 R.F. • Release force  
 P.T. • Pretravel  
 O.T. • Overtravel  
 D.T. • Differential travel  
 O.P. • Operating position

## MICRO SWITCH™ SM SERIES ORDER GUIDE • PIN PLUNGER

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [ oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P. * mm [in]
	<b>11SM1077-T</b>	Gold-plated contacts	0.1 A <b>P</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>12SM604-T</b>	Bifurcated gold contacts, reduced rating	0.1 A <b>P</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,076 [0.003]	0,1 [0.004]	8,38 [0.330]
	<b>11SM23-T</b>	Gold-plated contacts	1 A <b>N</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>12SM4-T</b>	Enhanced reliability (bifurcated gold contacts)	1 A <b>N</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,076 [0.003]	0,1 [0.004]	8,38 [0.330]
	<b>11SM701-T</b>	Lower force	4 A <b>S</b>	0,56 [2]	0,14 [0.5]	0,51 [0.020]	0,13 [0.005]	0,051 [0.002]	8,38 [0.330]
	<b>11SM1-T</b>	General purpose	5 A <b>J</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>11SM3-T</b>	Operating temps to 121 °C [250 °F]	5 A <b>J</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>11SM244-T</b>	Operating temps to 204 °C [400 °F] for 100 hours	5 A	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>11SM401-T</b>	Less differential travel	5 A <b>K</b>	0,97 [3.5] max.	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,025 [0.001]	8,38 [0.330]
	<b>21SM284-T2 (MS25085-2)</b>	MIL-PRF-8805 applications	5 A <b>R</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,76 [0.030]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>21SM284 (MS25085-1)</b>	MIL-PRF-8805 applications, solder terminals	5 A <b>R</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,76 [0.030]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>22SM1-T</b>	Enhanced stability under varying humidity	5 A <b>J</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>41SM1-T</b>	Up to 11 A, 1/4 HP (ac)	11 A <b>M</b>	0,83 to 1,39 [3 to 5]	0,28 [1]	0,76 [0.030]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>411SM1</b>	Sealed plunger construction	5 A <b>K</b>	0,83 to 2,09 [3 to 7.5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]
	<b>411SM23</b>	Sealed plunger construction, gold contacts	1 A <b>N</b>	0,83 to 2,09 [3 to 7.5]	0,28 [1]	0,51 [0.020]	0,13 [0.005]	0,1 [0.004]	8,38 [0.330]

\* except where stated ±0,38 mm [±0.015 in]

# MICRO SWITCH™ Premium Subminiature Basic Switches

O.F. • Operating force  
 R.F. • Release force  
 P.T. • Pretravel  
 O.T. • Overtravel  
 D.T. • Differential travel  
 O.P. • Operating position

## MICRO SWITCH™ SM SERIES ORDER GUIDE • INTEGRAL LEVER

	Catalog Listing	Recommended For	Electrical Data and UL Codes	O.F. N [oz]	R.F. min. N [ oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. mm [in]	O.P.
	<b>311SM1-T</b>	7,24 mm [0.285 in] straight lever	5 A <b>J</b>	0,39 [1.4]	0,07 [0.25]	2,16 [0.085]	0,51 [0.020]	0,48 [0.019]	8,64 mm ±1,5 mm [0.34 in ±0.060 in]
	<b>311SM23-T</b>	7,24 mm [0.285 in] straight lever, gold contacts	1 A <b>N</b>	0,39 [1.4]	0,07 [0.25]	2,16 [0.085]	0,51 [0.020]	0,48 [0.019]	8,64 mm ±1,5 mm [0.34 in ±0.060 in]
	<b>311SM701-T</b>	7,24 mm [0.285 in] straight lever, lower force	4 A <b>S</b>	0,16 [0.57]	0,03 [0.11]	2,16 [0.085]	0,51 [0.020]	0,36 [0.014]	8,64 mm ±1,5 mm [0.34 in ±0.060 in]
	<b>311SM2-T</b>	14,35 mm [0.565 in] straight lever	5 A <b>J</b>	0,31 [1.1]	0,05 [0.18]	3,05 [0.12]	0,66 [0.026]	0,69 [0.027]	8,51 mm ±2 mm [0.335 in ±0.08 in]
	<b>311SM43-T</b>	14,35 mm [0.565 in] straight lever, gold contacts	1 A <b>N</b>	0,31 [1.1]	0,05 [0.18]	3,05 [0.12]	0,66 [0.026]	0,69 [0.027]	8,51 mm ±2 mm [0.335 in ±0.08 in]
	<b>311SM702-T</b>	14,35 mm [0.565 in] straight lever, lower force	4 A <b>S</b>	0,11 [0.4]	0,02 [0.07]	3,05 [0.12]	0,66 [0.026]	0,38 [0.015]	8,51 mm ±2 mm [0.335 in ±0.08 in]
	<b>311SM3-T</b>	44,8 mm [1.765 in] straight lever	5 A <b>J</b>	0,15 [0.53]	0,02 [0.07]	7,87 [0.31]	1,45 [0.057]	2,8 [0.11]	7,11 mm ±4,3 mm [0.28 in ±0.17 in]
	<b>311SM17-H58</b>	44,8 mm [1.765 in] straight lever, gold contacts	1 A <b>N</b>	0,15 [0.53]	0,02 [0.07]	7,87 [0.31]	1,45 [0.057]	2,8 [0.11]	7,11 mm ±4,3 mm [0.28 in ±0.17 in]
	<b>311SM703-T</b>	44,8 mm [1.765 in] straight lever, lower force	4 A <b>S</b>	0,06 [0.2]	0,01 [0.04]	7,87 [0.31]	1,45 [0.057]	1,78 [0.07]	7,11 mm ±4,3 mm [0.28 in ±0.17 in]
	<b>311SM4-T</b>	6,38 mm [0.251 in] simulated roller lever	5 A <b>J</b>	0,39 [1.4]	0,07 [0.25]	2,16 [0.085]	0,46 [0.018]	0,48 [0.019]	11,7 mm ±1,5 mm [0.46 in ±0.06 in]
	<b>311SM25-T</b>	6,38 mm [0.251 in] simulated roller lever, gold contacts	1 A <b>N</b>	0,39 [1.4]	0,07 [0.25]	2,16 [0.085]	0,46 [0.018]	0,48 [0.019]	11,7 mm ±1,5 mm [0.46 in ±0.06 in]
	<b>311SM704-T</b>	6,38 mm [0.251 in] simulated roller lever, lower force	4 A <b>S</b>	0,16 [0.57]	0,03 [0.11]	2,16 [0.085]	0,46 [0.018]	0,33 [0.013]	11,7 mm ±1,5 mm [0.46 in ±0.06 in]
	<b>311SM5-T</b>	13,6 mm [0.535 in] simulated roller lever	5 A <b>J</b>	0,31 [1.1]	0,05 [0.18]	3,05 [0.12]	0,66 [0.026]	0,69 [0.027]	11,56 mm ±2 mm [0.455 in ±0.08 in]
	<b>311SM705-T</b>	13,6 mm [0.535 in] simulated roller lever, lower force	4 A <b>S</b>	0,11 [0.4]	0,02 [0.07]	3,05 [0.12]	0,66 [0.026]	0,38 [0.015]	11,56 mm ±2 mm [0.455 in ±0.08 in]
	<b>311SM6-T</b>	6,38 mm [0.251 in] roller lever	5 A <b>J</b>	0,39 [1.4]	0,07 [0.25]	2,16 [0.085]	0,46 [0.018]	0,48 [0.019]	14,2 mm ±1,5 mm [0.56 in ±0.06 in]
	<b>311SM68-T</b>	6,38 mm [0.251 in] roller lever, gold contacts	1 A <b>N</b>	0,39 [1.4]	0,07 [0.25]	2,16 [0.085]	0,46 [0.018]	0,48 [0.019]	14,2 mm ±1,5 mm [0.56 in ±0.06 in]
	<b>311SM706-T</b>	6,38 mm [0.251 in] roller lever, lower force	4 A <b>S</b>	0,16 [0.57]	0,03 [0.11]	2,16 [0.085]	0,46 [0.018]	0,33 [0.013]	14,2 mm ±1,5 mm [0.56 in ±0.06 in]
	<b>311SM7-T</b>	13,6 mm [0.535 in] roller lever	5 A <b>J</b>	0,31 [1.1]	0,05 [0.18]	3,05 [0.12]	0,66 [0.026]	0,69 [0.027]	14,1 mm ±2 mm [0.555 in ±0.08 in]
	<b>111SM1-T</b>	Leaf actuator	5 A <b>J</b>	1,95 [7]	0,56 [2]	5,54 [0.218]	0,76 [0.03]	0,76 [0.03]	8,89 mm ±0,76 mm [0.35 in ±0.03 in]
	<b>111SM17-T</b>	Leaf actuator gold contacts	1 A <b>N</b>	1,95 [7]	0,56 [2]	5,54 [0.218]	0,76 [0.03]	0,76 [0.03]	8,89 mm ±0,76 mm [0.35 in ±0.03 in]
	<b>111SM2-T</b>	Flexible leaf with roller	5 A <b>J</b>	1,95 [7]	0,56 [2]	5,56 [0.219]	0,76 [0.03]	0,64 [0.025]	14,3 mm ±0,76 mm [0.562 in ±0.03 in]
	<b>111SM23-T</b>	Flexible leaf with roller, gold contacts	1 A <b>N</b>	1,95 [7]	0,56 [2]	5,56 [0.219]	0,76 [0.03]	0,64 [0.025]	14,3 mm ±0,76 mm [0.562 in ±0.03 in]

# SM Series

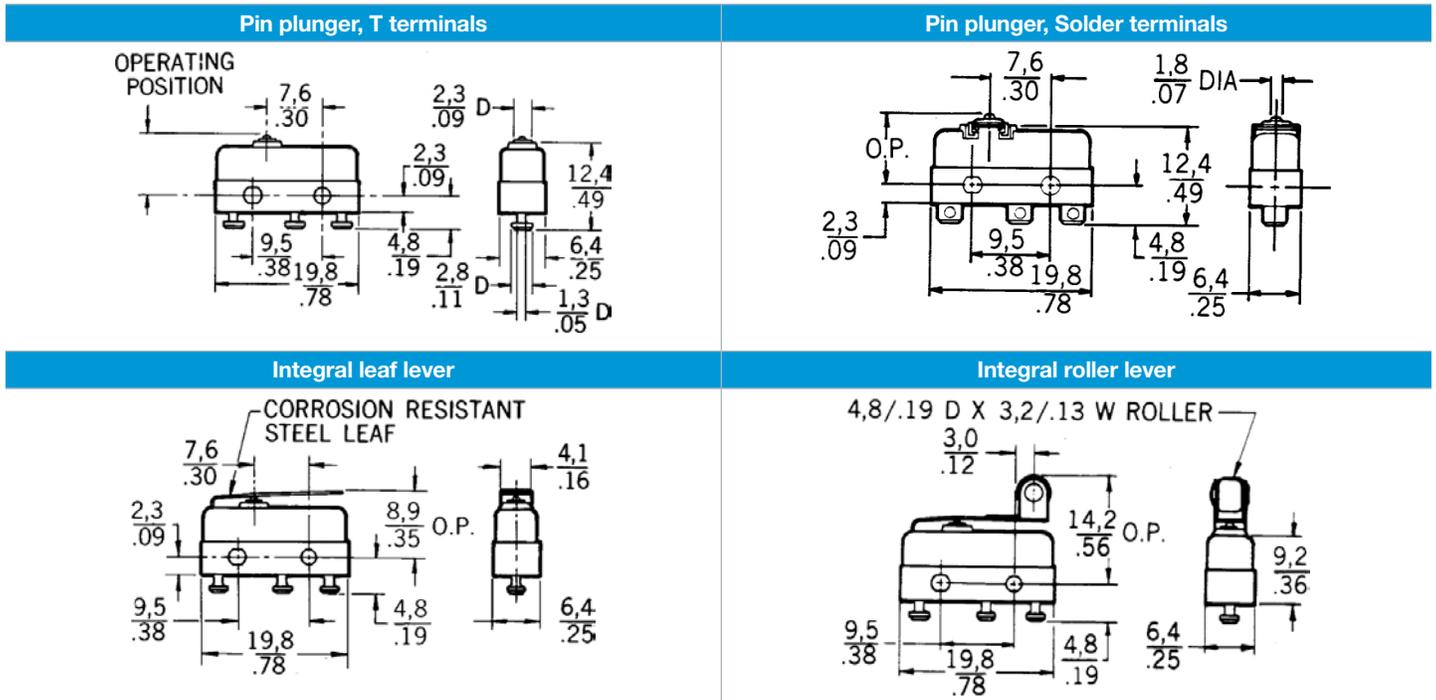
## NUMERIC DESIGNATIONS FOR MICRO SWITCH™ SM SERIES/ORDER GUIDE

Prefix	Description
<b>1SM</b>	Standard pin plunger construction, up to 80,000 operations
<b>11SM</b>	Long-life pin plunger construction, up to 10,000,000 operations
<b>12SM</b>	Gold bifurcated contacts
<b>21SM</b>	Same as 1SM (formerly had DAP material)
<b>22SM</b>	Same as 11SM (formerly had DAP material)
<b>23SM</b>	Same as 12SM (formerly had DAP material)
<b>41SM</b>	11 A construction (11SM construction)
<b>101SM</b>	1SM with an integral leaf actuator
<b>111SM</b>	11SM with an integral spring leaf
<b>112SM</b>	12SM with an integral spring leaf
<b>122SM</b>	22SM with an integral spring leaf
<b>151SM</b>	51SM with an integral spring leaf
<b>301SM</b>	1SM with an integral rigid lever
<b>302SM</b>	1SM with an integral roller lever
<b>311SM</b>	Integral rigid lever
<b>321SM</b>	21SM with an integral rigid lever
<b>322SM</b>	22SM with an integral rigid lever
<b>401SM</b>	Dust/splash resistant 1SM
<b>411SM</b>	Dust/splash resistant 11SM
<b>412SM</b>	Dust/splash resistant 12SM

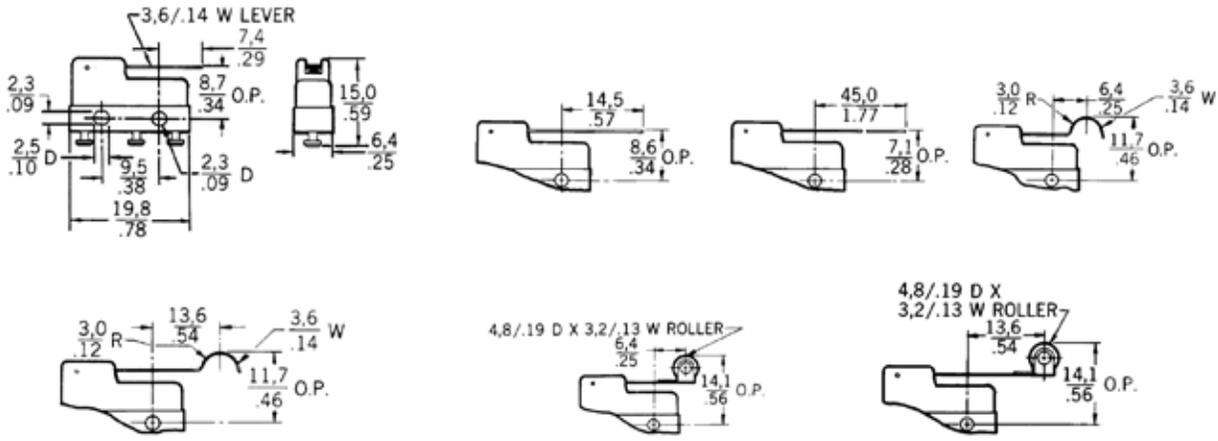
Suffix	Description
<b>23</b>	Gold contacts
<b>400</b>	Low differential travel series
<b>500</b>	Reverse terminal designation
<b>700</b>	Low force series
<b>1000</b>	Gold alloy

# MICRO SWITCH™ Premium Subminiature Basic Switches

## SM SERIES • STANDARD ACTUATOR OPTIONS, SCREW TERMINALS, & DIMENSIONS (mm/in)

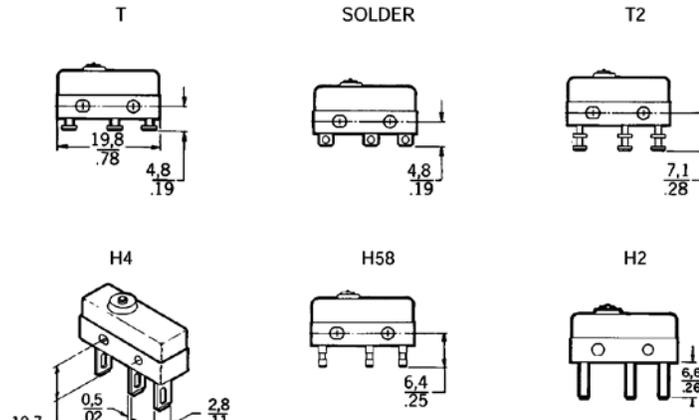


### Integral levers



NOTE: The two mounting holes accept pins or screws of 2,21 mm (0.087 in) maximum diameter

### MICRO SWITCH™ SM SERIES AVAILABLE TERMINALS



Mounting torque:  
0,26 Nm [2.3 in-lb] max.

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

# SM Series

## MICRO SWITCH™ JS SERIES AUXILIARY ACTUATORS FOR THE MICRO SWITCH™ SM SERIES SWITCHES (stainless steel actuator and hardware)

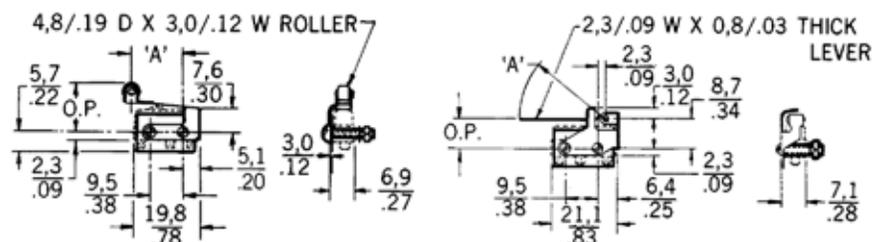
		Description	Actuator Length	Operating Force max.	Release Force min.	Pretravel max.	Overtravel min.	Differential Travel max.	Operating Point	Free Position max.
JS-2		Straight leaf	16,8 mm [0.66 in]	2,78 N [10 oz]	0,56 N [2 oz]	1,98 mm [0.078 in]	0,38 mm [0.015 in]	0,38 mm [0.015 in]	8,89 mm ±0,38 mm [0.350 in ±0.015 in]	11,3 mm [0.445 in]
JS-5		Roller leaf (bronze roller)	15 mm [0.59 in]	2,78 N [10 oz]	0,83 N [3 oz]	1,98 mm [0.078 in]	0,38 mm [0.015 in]	0,38 mm [0.015 in]	14,2 mm ±0,38 mm [0.580 in ±0.015 in]	16,9 mm [0.665 in]
JS-7		Formed leaf (simulated roller)	14,7 mm [0.58 in]	2,78 N [10 oz]	0,56 N [2 oz]	2,39 mm [0.094 in]	0,79 mm [0.031 in]	0,38 mm [0.015 in]	9,65 mm ±0,38 mm [0.380 in ±0.015 in]	12,7 mm [0.475 in]
JS-220		Straight lever	26,2 mm [1.03 in]*	0,28 N [1 oz]	0,04 N [0.14 oz]	3,18 mm [0.125 in] approx.	0,76 mm [0.030 in]	0,76 mm [0.030 in]	10,3 mm [0.406 in] approx.	–
JS-246		Roller lever (steel roller)	25,4 mm [1.00 in]*	0,28 N [1 oz]	0,04 N [0.14 oz]	3,18 mm [0.125 in] approx.	0,76 mm [0.030 in]	0,76 mm [0.030 in]	14,3 mm [0.562 in] approx.	–
JS-221		Formed lever (simulated roller)	25,4 mm [1.00 in]*	0,28 N [1 oz]	0,04 N [0.14 oz]	3,18 mm [0.125 in] approx.	0,76 mm [0.030 in]	0,76 mm [0.030 in]	11,6 mm [0.455 in] approx.	–
JS-33**Δ		Tandem leaf	5,3 mm [0.21 in]	5,00 N [18 oz]	2,78 N [10 oz]	2,36 mm [0.093 in]	0,15 mm [0.006 in]	0,38 mm [0.015 in]	8,89 mm ±0,38 mm [0.350 in ±0.015 in]	10,5 mm [0.415 in]
JS-31**Δ		Tandem leaf (bronze roller)	4,3 mm [0.17 in]	11,1 N [40 oz]	4,45 N [16 oz]	2,36 mm [0.093 in]	0,13 mm [0.005 in]	0,38 mm [0.015 in]	14,5 mm ±0,38 mm [0.570 in ±0.015 in]	16,1 mm [0.635 in]

\*\* Travel characteristics on tandem actuators vary with actual basic switch characteristics

NOTE: Above actuators should be used below 300 °F

\* "A" measurement is from pivot point of lever to the point indicated on drawing

Δ Plated steel machine screws



# MICRO SWITCH™ Premium Subminiature Basic Switches

This Honeywell datasheet supports the following MICRO SWITCH™ SM Series Basic Switch Listings

111SM1	11SM23-T2	11SM861-T	21SM284-T2	311SM3	341SM169-H252
111SM1053-H58	11SM244	11SM862-H2	21SM289-T	311SM3-H2	341SM2-T
111SM113-H58	11SM2440	11SM8849-H58	21SM35	311SM3-H58	411SM1
111SM115-H2	11SM2442-T	11SM8850-H58	21SM365	311SM3-T	411SM1-H58
111SM115-H58	11SM244-H4	11SM8853-T	21SM366	311SM4	411SM1-T
111SM117-H2	11SM244-T	11SM98	21SM367	311SM43-H58	411SM701-H4
111SM117-H58	11SM2454	11SM98-T	21SM368	311SM43-T	412SM4
111SM119-H2	11SM250-T	122SM160-T2	21SM369	311SM4-H2	412SM4-T
111SM124-H2	11SM3	122SM44-T2	22SM157-T	311SM4-H58	41SM1
111SM125-H2	11SM303-T2	12SM4	22SM157-T2	311SM4-T	41SM1-H2
111SM126-T	11SM320-T	12SM4-T	22SM1-T	311SM5-T	41SM1-H251
111SM127-T	11SM38	12SM4-T2	22SM22-H58	311SM6	41SM1-H4
111SM17-T	11SM3-H58	12SM604-T	22SM22-T	311SM604-H4	41SM1-H58
111SM1-H2	11SM3-S	12SM825	22SM25-T	311SM605-H4	41SM1-S
111SM1-H58	11SM3-T	12SM83	22SM396-T	311SM68-H4	41SM1-T
111SM1-T	11SM3-T2	12SM83-H2	22SM401	311SM68-T	41SM1-T2
111SM1-T2	11SM401	141SM102	22SM401-T	311SM6-H4	41SM2
111SM2	11SM401-H2	141SM102-T	22SM426-T	311SM6-H58	41SM25-H2
111SM23-H4	11SM401-H58	141SM102-T2	22SM426-T2	311SM6-T	41SM27-T
111SM23-T	11SM401-T	141SM123-T2	22SM801-H58	311SM6-T2	41SM28
111SM241	11SM403	141SM281-H403	22SM81-T	311SM701	41SM28-H2
111SM2410	11SM403-T	141SM28-H2	22SM82-T	311SM7017-T	41SM28-T2
111SM244	11SM405	141SM28-H58	23SM13	311SM7018-H58	41SM2-T
111SM247	11SM423	141SM2-T	311SM1	311SM7018-T	41SM301
111SM248	11SM423-H2	141SM2-T2	311SM1005-H58	311SM701-H58	41SM301-T2
111SM2-H2	11SM423-H4	141SM32-H2	311SM1005-T	311SM701-T	41SM30-H403
111SM2-T	11SM430-T	1SM1	311SM1017-T	311SM702	41SM30-H58
111SM2-T2	11SM4601-H4	1SM195-T	311SM1018-T	311SM7021.	51SM1-H4
111SM305-T2	11SM54-T	1SM1-T	311SM1029	311SM702-T	51SM1-T
111SM47-T2	11SM601-H4	1SM2	311SM1068-H4	311SM703-T	8SM42-T
111SM518-T2	11SM608-H4	1SM23	311SM1138-T	311SM704-H2	
111SM601-H4	11SM701	1SM23-T2	311SM1721-H4	311SM704-T	
111SM602-H4	11SM701-H2	1SM263	311SM1781-H4	311SM705-H58	
111SM7-T	11SM701-H58	1SM282	311SM17-H58	311SM705-T	
111SM858-H403	11SM701-T	1SM3	311SM18	311SM706-H58	
11SM1	11SM703	1SM314-H2	311SM1-H2	311SM706-T	
11SM1077-H4	11SM703-H2	1SM33-H2	311SM1-H4	311SM717-T	
11SM1077-H58	11SM703-T	1SM35	311SM1-H58	311SM718-H58	
11SM1077-T	11SM705-H58	1SM36-H2	311SM1-T	311SM719-T	
11SM144	11SM711	1SM379-H2	311SM2	311SM71-T	
11SM144-H2	11SM712-H58	1SM3-T	311SM23-H2	311SM730-T2	
11SM1777-H58	11SM723-T	1SM430	311SM23-H4	311SM7602-H4	
11SM1777-T	11SM727	1SM46-T	311SM23-T	311SM768-H58	
11SM1-H2	11SM7601-H4	1SM61	311SM25-H4	311SM768-T2	
11SM1-H58	11SM76-T	1SM817-T	311SM25-T	311SM778-T	
11SM1-T	11SM77-H58	1SM836	311SM2721-T2	311SM781-H58	
11SM1-T2	11SM77-T	21SM144	311SM2-H2	311SM7-H58	
11SM22-H258	11SM82-T2	21SM144-T	311SM2-H251	311SM7-T	
11SM23-H2	11SM837-T	21SM157-T	311SM2-H4	311SM800-T	
11SM23-H4	11SM8423-H2	21SM1-T	311SM2-H58	311SM8092-T	
11SM23-T	11SM861-H58	21SM284	311SM2-T	311SM95	

## ADDITIONAL INFORMATION

The following associated literature is available on Honeywell's web site at [sensing.honeywell.com](http://sensing.honeywell.com):

- Product installation instructions
- Product range guide
- Aerospace range guide
- Applying basic switches
- Low energy switching guide
- Product application-specific information
  - Application Note: Central Vacuum System
  - Application Note: Electronic Taping Machine
  - Application Note: Sensors and Switches in Sanitary Valves
  - Application Note: Sensors and Switches in Oil Rig Applications
  - Application Note: Sensors and Switches for Potential Medical Applications

### **WARNING**

#### **PERSONAL INJURY**

**DO NOT USE** these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

## WARRANTY/REMEDY

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[11SM1777-T](#) [11SM23-H4](#) [11SM244-H4](#) [11SM403-T](#) [11SM423](#) [11SM608-H4](#) [11SM701-H58](#) [11SM711](#) [11SM723-T](#)  
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