



111SM2



Actual product appearance may vary.

SM Series Subminiature Basic Switch, Single Pole Double Throw (SPDT), 125 Vac, 1 A, Roller Lever Actuator, Solder Termination

Features

- Long operating life
- Elongated mounting hole for easier, more accurate mounting
- Choice of actuation (plunger, as well as a variety of integral and auxiliary actuators)
- Choice of electrical termination (solder, quick connect, PCB)
- Choice of operating characteristics (sensitive differential travel as low as 0,0254 mm [0.001 in] maximum, low operating force to 0,56 N [2.0 oz] maximum)
- Optional series constructions available (gold contacts for low energy switching, bifurcated gold contacts for maximum reliability, power load switching capability to 11 A)
- MIL-PFR-8805 qualified listings available

Potential Applications

- Aerospace
- Instrumentation
- Appliances
- Vending machines
- Timing devices
- Office equipment
- Computer/business equipment
- Test instruments
- Medical/dental equipment
- Communications equipment
- HVAC equipment
- Manually operated devices
- Valves

Description

MICRO SWITCH™ SM Series subminiature basic switches are used for simple or precision on/off application needs. The MICRO SWITCH™ SM Series switches are slightly larger than the MICRO SWITCH™ SX Series switches. These switches combine small size and light weight with ample electrical capacity, precision operation and long life.

Product Specifications

Switch Type	MICRO SWITCH™ Subminiature 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]
Sealed	No
Ampere Rating	5 A
Circuitry	Single Pole Double Throw (SPDT)
Actuator	Roller Lever
Termination	Solder

Operating Temperature Range	-53 °C to 121 °C [-65 °F to 250 °F]
Voltage	125 Vac
Approvals	CE,CSA,UL,ENEC
Actuator Length	3,05 mm [0.12 in]
Contact Type	Silver
Operating Force (O.F.)	1,95 N [7.0 oz] max.
Release Force (R.F.)	0,56 N [2.0 oz] min.
Pretravel (P.T.)	5,56 mm [0.219 in] max.
Overtravel (O.T.)	0,76 mm [0.030 in] min.
Differential Travel (D.T.)	0,64 mm [0.025 in] max.
Operating Position (O.P.)	14,2 mm ± 0,76 mm [0.560 in ± 0.030 in]
Housing Material	General Purpose Phenolic
High Temperature	121 °C [250 °F]
CE mark	61058-1
UL File #	E12252
CSA File #	LR41372
Agency Approvals and Standards	1054
Mounting Screw Size	22,1 mm [0.087 in]
Mounting Centers	9,65 mm [0.38 in]
Maximum Tightening Torque	0,26 N m [2.3 in lb]
Weight	3,63 g [0.008 lb]
Package Height	12,4 mm [0.49 in]
Package Width	6,35 mm [0.25 in]
Package Length	19,8 mm [0.78 in]
Recommended For	Flexible leaf with roller
Availability	Global
UNSPSC Code	30211905
UNSPSC Commodity	30211905 Snap switches
Series Name	SM

MICRO SWITCH

A DIVISION OF MINNEAPOLIS-HONEYWELL REGULATOR COMPANY
PROBOPORT, ILLINOIS

FED. MFR. CODE 91929

SWITCH-BASIC

CATALOG LISTING

111SM2

111SM2

PAGE 1 OF 1

REPLACES

RELEASE NO. SR 9566

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

M

DRAWING NUMBER

ISSUE X8

X5

REVISIONS

A	0029449		
R	C	12 SEPT 72	
B	77768	CO- 12 JUL 94	S A D
C	0079612	12 APR 95	S A D
D	205616		G J W 21 MAY 02

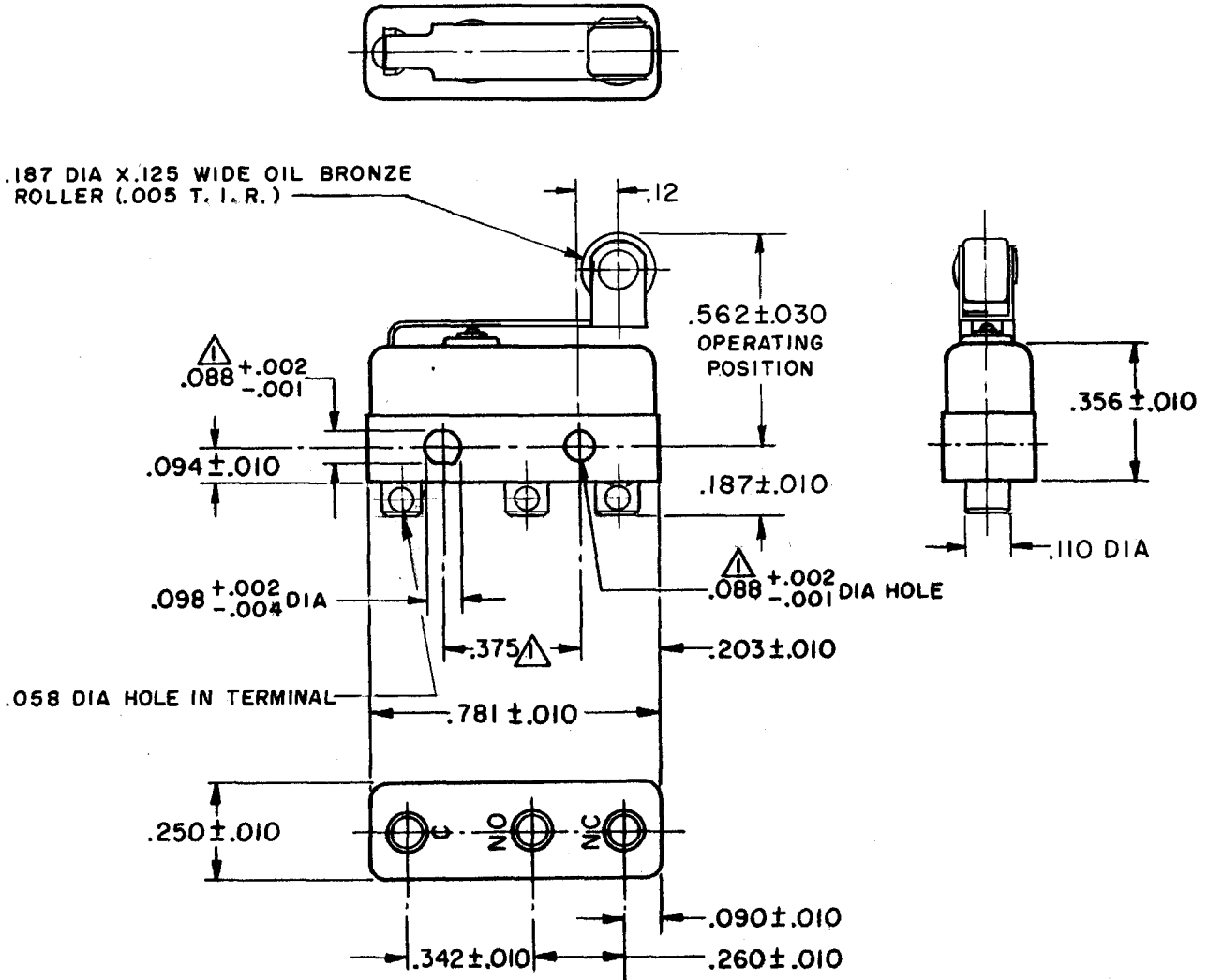
RASTER

FO-50378

DRAWN

MBF

MBF



NOTE -

- \triangle - MOUNTING HOLES WILL ACCEPT PINS OR SCREWS OF $.087 \text{ MAX DIA}$ ON $.375 \pm .002$ CENTERS
- 2 - TERMINALS ARE PLATED FOR SOLDERING

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF MINNEAPOLIS-HONEYWELL REGULATOR CO. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.

CHARACTERISTICS	ELECTRICAL DATA		SCALE 2 TO 1
OPERATING FORCE ----- 7 OZ MAX	CONTACT ARRANGEMENT S P D T	BREAK DISTANCE .010 MIN	DO NOT SCALE PRINT
RELEASE FORCE ----- 2 OZ MIN	30 VOLTS DC RATING		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: ONE PLACE (.0) $\pm .030$ TWO PLACE (.00) $\pm .015$ THREE PLACE (.000) $\pm .005$ ANGLES \pm
PRETRAVEL ----- .219 MAX	INDUCTIVE -----	SEA LEVEL ----- 3 AMP 50,000 FT. ----- 2.5 AMP	
DIFFERENTIAL TRAVEL ----- .025 MAX	RESISTIVE -----	SEA LEVEL ----- 5 AMP 50,000 FT. ----- 5 AMP	
OVERTRAVEL ----- .030 MIN	MAXIMUM INRUSH ----- 24 AMP		
	L4 5A 250 VAC ~		
			WEIGHT .008 LB MAX