



1SM1



Actual product appearance may vary.

SM Series Subminiature Basic Switch, Single Pole Double Throw (SPDT), 250 Vac, 5 A, Pin Plunger 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


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.

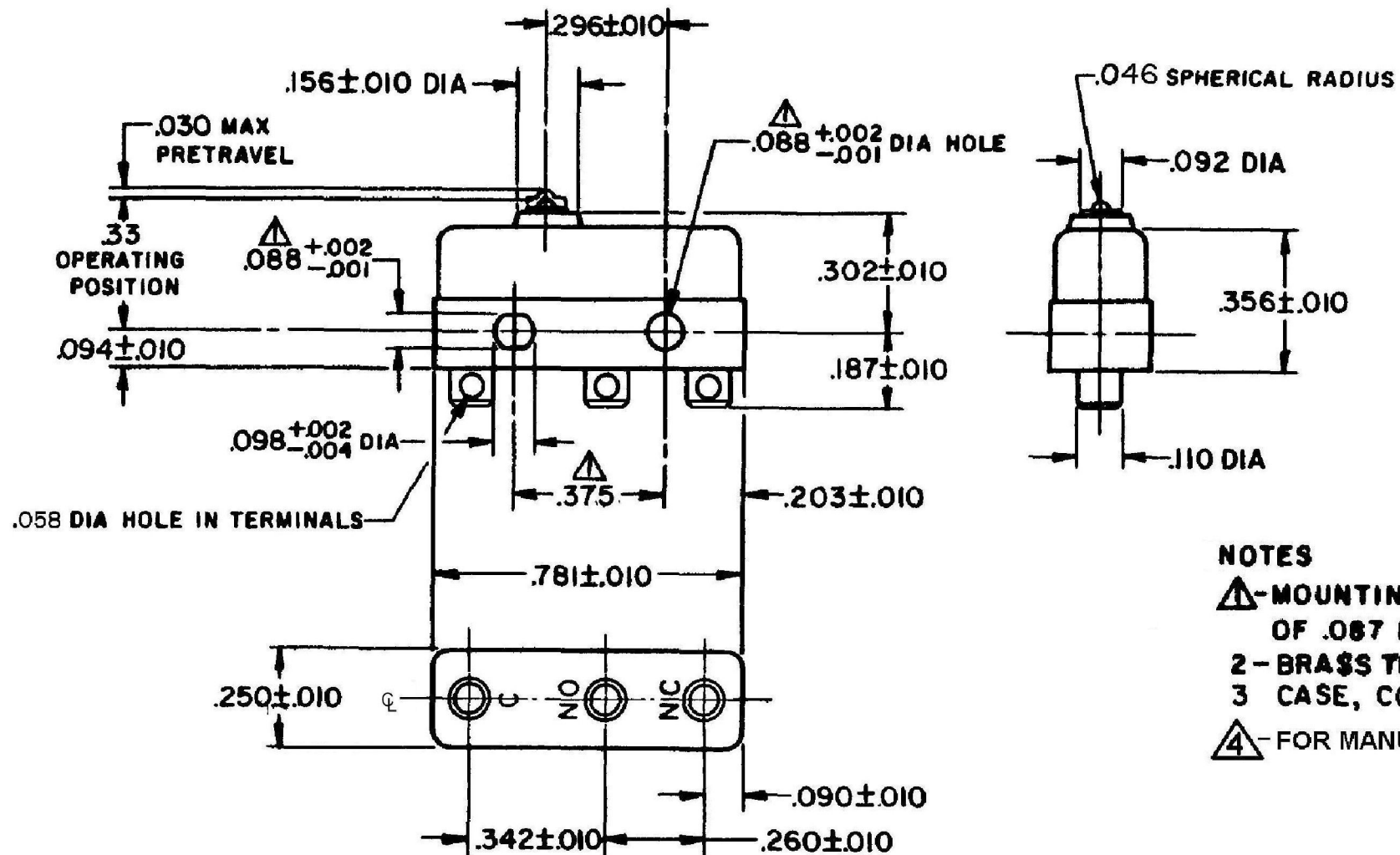
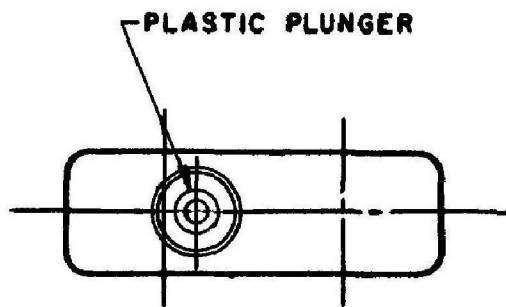
Potential Applications

- 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

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	Pin Plunger
Termination	Solder
Operating Temperature Range	-53 °C to 121 °C [-65 °F to 250 °F]
Voltage	250 Vac
Approvals	CSA,UL,ENEC
Contact Type	Silver
Operating Force (O.F.)	0,83 N - 1,39 N [3.0 oz - 5.0 oz]
Release Force (R.F.)	0,28 N [1.0 oz] min.
Pretravel (P.T.)	0,76 mm [0.030 in] max.
Overtravel (O.T.)	0,13 mm [0.005 in] min.
Differential Travel (D.T.)	0,1 mm [0.004 in] max.
Operating Position (O.P.)	8,38 mm ± 0,38 mm [0.330 in ± 0.015 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	2,72 g [0.006 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	Most applications
Comment	Turret type solder terminals.
Availability	Global
UNSPSC Code	30211905
UNSPSC Commodity	30211905 Snap switches
Series Name	SM

HONEYWELL PART NUMBER
1SM1
FAA - PMA 
PRODUCT CODE TWA0100
JG-80004 & JG-80004J





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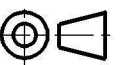


- NOTES**
- -MOUNTING HOLES WILL ACCEPT PINS OR SCREWS OF .087 MAX DIA ON .375 ± .002 CENTERS
 - 2-BRASS TERMINALS ARE 60/40 TIN/LEAD PLATED FOR SOLDERING
 - 3 CASE, COVER AND PLUNGER ARE MADE OF PHENOLIC MATERIAL
 - -FOR MANUFACTURING DETAIL SEE ASSEMBLY DRAWING 1SM1 FOR FAA-PMA

RELEASE NO.	-
REPLACES	-

CHARACTERISTICS	
OPERATING FORCE	3 - 5 OZ
RELEASE FORCE	1 OZ MIN
DIFFERENTIAL TRAVEL	.004 MAX
OVERTRAVEL	.005 MIN

ELECTRICAL DATA		
CONTACT ARRANGEMENT SPDT		
30 VOLTS DC RATING		
	SEA LEVEL	50,000 FT
INDUCTIVE	3 AMP	2.5 AMP
RESISTIVE	5 AMP	5 AMP
MAXIMUM INRUSH 24 AMP		
APPROVALS	KEMA, CE	5A, 250V ~ T85 1E4 
	UL, CSA	5A, 250 VAC ~   BRAND L4
	AVIATION	FAA-PMA  BRAND

DESIGN UNITS: INCH
TOLERANCES UNLESS NOTED:
NO PLACE X ±
ONE PLACE .X ±
TWO PLACE .XX ±
THREE PLACE .XXX ±
FOUR PLACE .XXXX ±
ANGLES ±
THIRD ANGLE PROJECTION


DRAWN	KSR	10OCT07
CHECK	RJ	10OCT07
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INTERPRET PER ANSI Y14.5M-1982 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY		
RASTER		

Honeywell			
TITLE SWITCH - BASIC			
SIZE	TYPE	DRAWING NAME	REV
B	I	1SM1	27
SCALE	-	WEIGHT .006 LB MAX	SHEET 1 OF 1