



21SM284



Actual product appearance may vary.

SM Series Subminiature Basic Switch, Single Pole Double Throw (SPDT), 115 Vac, 5 A, Pin Plunger Actuator, Solder Termination, Military Part Number MS25085-1

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

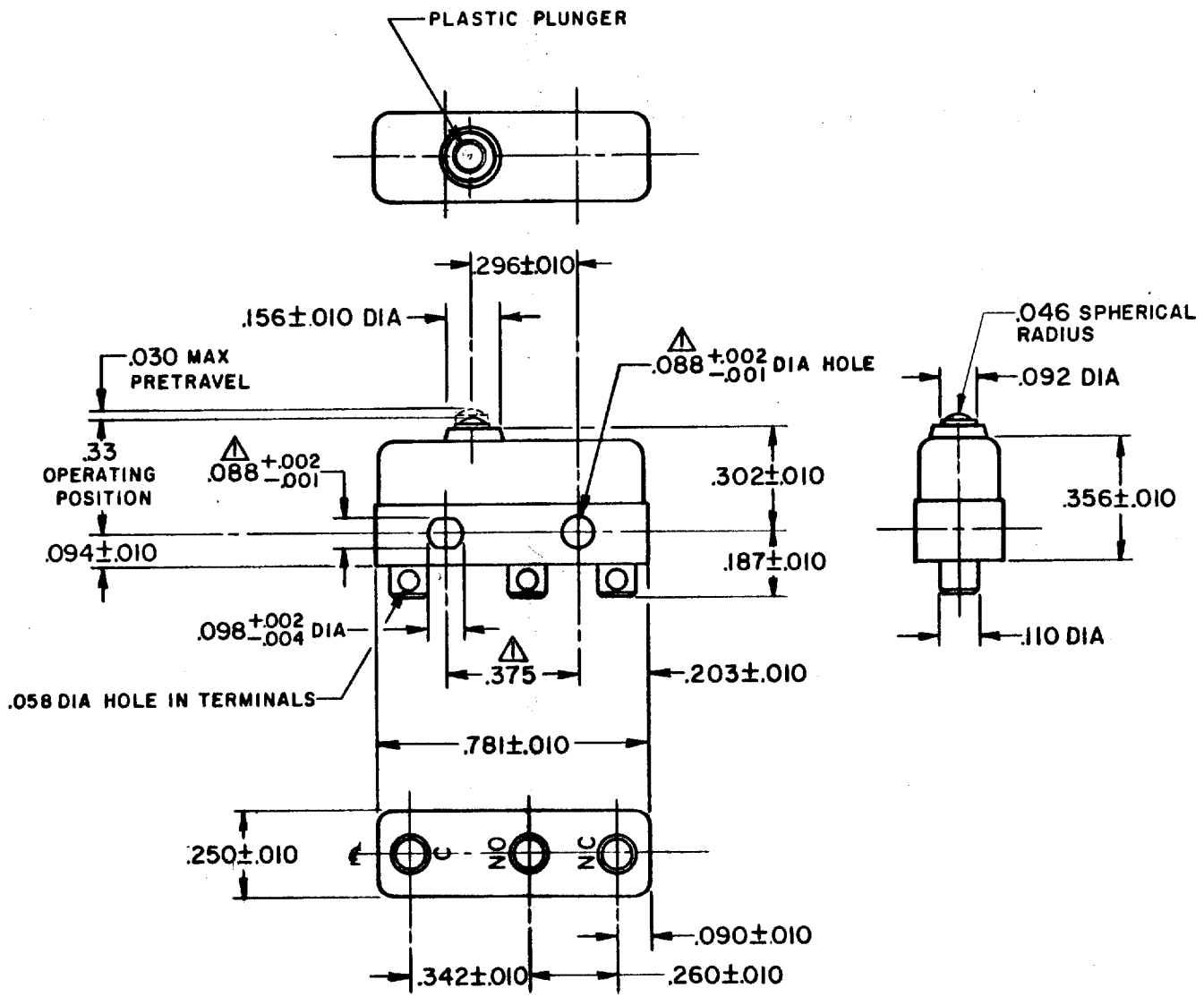
Product Specifications	
Switch Type	MICRO SWITCH™ Subminiature 12,7 mm H x 6,35 mm W x 20,3 mm L [0.5 in H x 0.25 in W x 0.8 in L]
Sealed	No
Ampere Rating	5 A
Circuitry	Single Pole Double Throw (SPDT)
Actuator	Pin Plunger
Termination	Solder
Operating Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Voltage	115 Vac
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	204 °C [400 °F]
UL File #	E12252
CSA File #	LR41372
Military Part Number	MS25085-1
Mounting Centers	9,65 mm [0.38 in]
Maximum Tightening Torque	0,22 N m [2.0 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	MIL-S-8805 application requirements, solder terminals
Availability	Global
UNSPSC Code	30211905
UNSPSC Commodity	30211905 Snap switches
Series Name	SM

M 2ISM284

DRAWING NUMBER
X 2
 ISSUE
3

REVISIONS
A CO 22109
 M B F
 23 NOV 66
B CO 26038
 S.R.H.
 19 JUNE 69

REPLACES
 RELEASE NO. SR 11177
 12 AUG 63
 CHECK R J H
 12 AUG 63
 CHECK C W L
 12 AUG 63
 CHECK L S D
 12 AUG 63
 CHECK L E B
 8 AUG 63
 DRAWN
 FC-50376



NOTE—
 ▲-MOUNTING HOLES WILL ACCEPT PINS OR SCREWS
 OF .087 MAX DIA ON .375 ± .002 CENTERS
 2-TERMINALS ARE PLATED FOR SOLDERING

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CHARACTERISTICS		ELECTRICAL DATA			SCALE 2 TO 1
OPERATING FORCE	3-5 OZ	CONTACT ARRANGEMENT S P D T			DO NOT SCALE PRINT
RELEASE FORCE	1 OZ MIN	SEA LEVEL			UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES ARE: ONE PLACE (.0) ±.030 TWO PLACE (.00) ±.015 THREE PLACE (.000) ±.005 ANGLES ±
DIFFERENTIAL TRAVEL	.004 MAX	LOAD	28 VDC	115 VAC 60 CPS	
OVERTRAVEL	.005 MIN	RESISTIVE	5.0 AMP	5.0 AMP	
		INDUCTIVE	3.0 AMP	5.0 AMP	
		LAMP	2.4 AMP	1.5 AMP	
				2.4 AMP	WEIGHT .006 LB MAX