



### 11SM1-T



*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

#### 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.

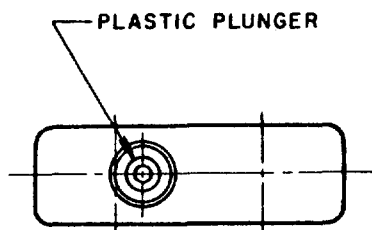
| Product Specifications         |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| Switch Type                    | MICRO SWITCH™ Subminiature<br>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                        | 250 Vac                                                                                           |
| Approvals                      | CE,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.)               | 0,5 mm [0.020 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]                                                                                   |
| CE mark                        | 61058-1                                                                                           |
| UL File #                      | E12252                                                                                            |
| CSA File #                     | LR41372                                                                                           |
| Agency Approvals and Standards | 1054                                                                                              |
| 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                                                                                                |

**MICRO SWITCH**FREEPORT, ILLINOIS, U.S.A.  
A DIVISION OF HONEYWELL

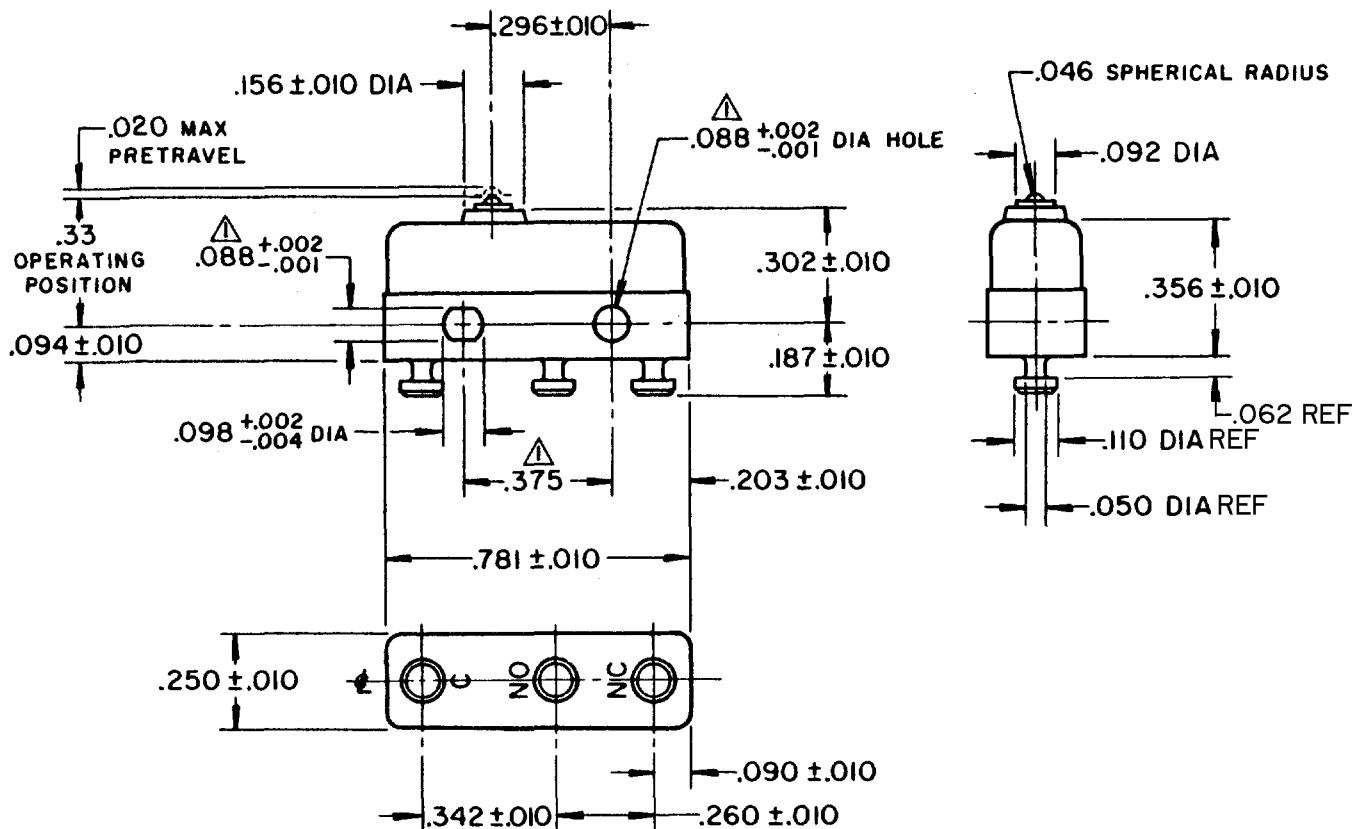
FED. MFG. CODE 91929

**SWITCH - BASIC**

CATALOG LISTING

**11SM1-T**

PLASTIC PLUNGER

**NOTE -**

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

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

**CHARACTERISTICS**

OPERATING FORCE ----- 3-5 OZ

RELEASE FORCE ----- 1 OZ MIN

DIFFERENTIAL TRAVEL ----- .004 MAX

OVERTRAVEL ----- .005 MIN

**ELECTRICAL DATA**CONTACT ARRANGEMENT  
S P D T**30 VOLTS DC RATING**

|                |           |         |
|----------------|-----------|---------|
| INDUCTIVE      | SEA LEVEL | 3 AMP   |
|                | 50,000 FT | 2.5 AMP |
| RESISTIVE      | SEA LEVEL | 5 AMP   |
|                | 50,000 FT | 5 AMP   |
| MAXIMUM INRUSH |           | 24 AMP  |

SCALE 2 TO 1

DO NOT SCALE PRINT

UNLESS OTHERWISE NOTED

DIMENSIONS ARE IN INCHES

**TOLERANCES ARE:**

|             |        |       |
|-------------|--------|-------|
| ONE PLACE   | (.0)   | ±.030 |
| TWO PLACE   | (.00)  | ±.015 |
| THREE PLACE | (.000) | ±.005 |
| ANGLES      |        | ±     |

WEIGHT .006 LB MAX

L4

5A 250 VAC ~

DRAWING NUMBER  
**11SM1-T**

PAGE 1 OF 1

**M**ISSUE  
**11****REVISIONS**

|     |            |
|-----|------------|
| A   | CO22077    |
| GCH | 1 DEC 66   |
| B   | CO-77768   |
| SAD | 12 JUL 94  |
| C   | CO-82803-E |
| DLT | 8 JAN 96   |
| D   | CO-95172   |
| JJA | 17 JUNE 99 |

REPLACES

RELEASE NO.

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

FORMTEK  
FC-50378

DRAWN

GCH

1 DEC 66