



### 3SX1-T



*Actual product appearance may vary.*

**SX Series Subminiature Basic Switch, Single Pole Double Throw (SPDT), 125 Vac, 1 A, Pin Plunger Actuator, Solder Termination, Military Part Number M8805/109-03**

#### 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
- Optional series constructions available (gold contacts for low energy switching, bifurcated gold contacts for maximum reliability, power load switching capability to 7 A)
- MIL-PFR-8805 qualified listings available

#### Potential Applications

- Aerospace
- 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™ SX Series subminiature basic switches are used for simple or precision on/off application needs. They are small, precision snap-action switches that are ideal where savings in space and weight are important.

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	1 A
Circuitry	Single Pole Double Throw (SPDT)
Actuator	Pin Plunger
Termination	Solder
Operating Temperature Range	-53 °C to 85 °C [-65 °F to 185 °F]
Voltage	125 Vac
Contact Type	Gold
Operating Force (O.F.)	1,39 N [5.0 oz] max.

Release Force (R.F.)	0,28 N [1.0 oz] min.
Pretravel (P.T.)	0,5 mm [0.020 in] max.
Overtravel (O.T.)	0,1 mm [0.004 in] min.
Differential Travel (D.T.)	0,13 mm [0.005 in] max.
Operating Position (O.P.)	8,13 mm $\pm$ 0.38 mm [0.320 in $\pm$ 0.015 in]
Housing Material	General Purpose Phenolic
Military Part Number	M8805/109-03
Mounting Screw Size	22,1 mm [0.087 in]
Mounting Centers	4,8 mm [0.19 in]
Maximum Tightening Torque	0,22 N m [2.0 in lb]
Weight	1,36 g [0.003 lb]
Package Height	8,89 mm [0.35 in]
Package Width	3,96 mm [0.156 in]
Package Length	12,7 mm [0.50 in]
Recommended For	MIL-S-8805 applications
Comment	Turret type solder terminals, 3,96 mm [0.156 in] wide package.
Availability	Global
UNSPSC Code	30211905
UNSPSC Commodity	30211905 Snap switches
Series Name	SX

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**MICRO SWITCH**

A DIVISION OF MINNEAPOLIS-HONEYWELL REGULATOR COMPANY  
 HAWAII, HAWAII  
 FED. MFR. CODE 91929

**SWITCH - BASIC**

CATALOG LISTING

**3SXI-T**

PRODUCT CODE  
**VDD0150**

**3SXI-T**

PAGE 1 OF 1

**M**

**DRAWING NUMBER**

**ISSUE**

11

REPLACES

RELEASE NO. SR 8806

13 APR 05

AK

CHECK

RP

26 FEB 60

31 OCT 72

20 MAR 74

CHECK

26 FEB 60

4 JUN 82

23 AUG 00

0012138

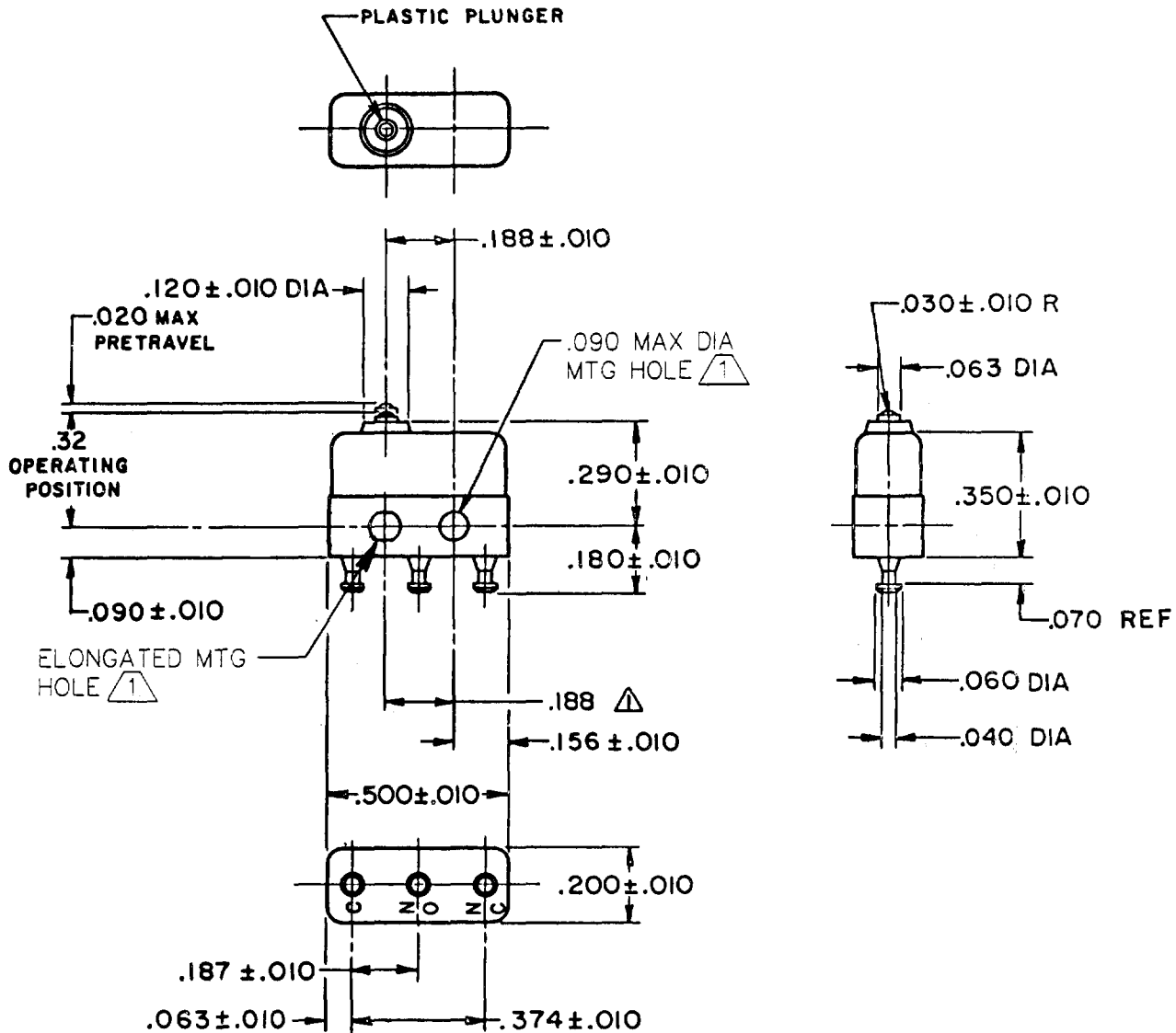
VKR  
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1 Y 0 24 FEB 60

DAW

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1 Y 0 24 FEB 60



**NOTES**

- △-MOUNTING HOLES WILL ACCEPT PINS OR SCREWS OF .087 MAX DIA ON .188 ± .002 CENTERS
- 2-TERMINALS ARE PLATED FOR SOLDERING
- 3-SWITCH WILL WITHSTAND TEMPERATURE OF 250° F
- 4-MOVABLE CONTACT MATERIAL-24K SOLID GOLD OVERLAY
- 5-STATIONARY CONTACT MATERIAL-GOLD ALLOY

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**CHARACTERISTICS**

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

**ELECTRICAL DATA**

CONTACT ARRANGEMENT  
 S P D T  
 30 VOLTS DC RATING  
 INDUCTIVE ----- SEA LEVEL ----- 0.5 AMP  
 50,000 FT ----- 0.5 AMP  
 RESISTIVE ----- SEA LEVEL ----- 1 AMP  
 50,000 FT ----- 1 AMP  
 MAXIMUM INRUSH ----- 2 AMP

SCALE 2 TO 1

DO NOT SCALE PRINT

UNLESS OTHERWISE  
 SPECIFIED  
 DIMENSIONS ARE IN INCHES

**TOLERANCES ARE:**  
 ONE PLACE (.0) ±.030  
 TWO PLACE (.00) ±.015  
 THREE PLACE (.000) ±.005  
 ANGLES ±

WEIGHT .003 LB MAX

APPROVALS

KEMA, CE  
 UL, CSA

1A 250V ~ T125 25E3 CE  
 1A 125 VAC BRAND  
 L22J

FORMTEK

FC-50378

DRAWN