



### 12SX1-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**

#### 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	Subminiature 10,2 mm H x 5,08 mm W x 12,7 mm L [0.4 in H x 0.20 in W x 0.5 in L]
Sealed	No
Ampere Rating	1 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	125 Vac
Approvals	CE, CSA, UL
Contact Type	Bifurcated Gold
Operating Force (O.F.)	0,7 N - 1,39 N [2.5 oz - 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.)	0,076 mm [0.003 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
High Temperature	204 °C [400 °F]
UL File #	E12252
CSA File #	LR41372
Agency Approvals and Standards	1054
Mounting Centers	4,83 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	5,0 mm [0.20 in]
Package Length	12,7 mm [0.50 in]
Recommended For	Best reliability with higher current rating (bifurcated gold contacts)
Availability	Global
UNSPSC Code	30211905
UNSPSC Commodity	30211905 Snap switches
Series Name	SX

# MICRO SWITCH

FREEPORT ILLINOIS, U.S.A  
A DIVISION OF HONEYWELL

FED. MFG. CODE 91929

# SWITCH-BASIC

CATALOG LISTING

## 12SXI-T

PRODUCT CODE

VDK1000

REPLACES X42190-SX

12SXI-T

PAGE 1 OF 1

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DRAWING NUMBER

7

ISSUE

AK

RELEASE NO. PR-1410

15 APR 05

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REVISIONS

A	PR-1410	L S D	19 AUG 70
B	C031232	R E R	31 OCT 72
C	C071376	W J C	14 NOV 91
D	C071574	J A L	4 JUN 92
E	201033	D L T	24 AUG 00
F	0012143	CMH	15 APR 05

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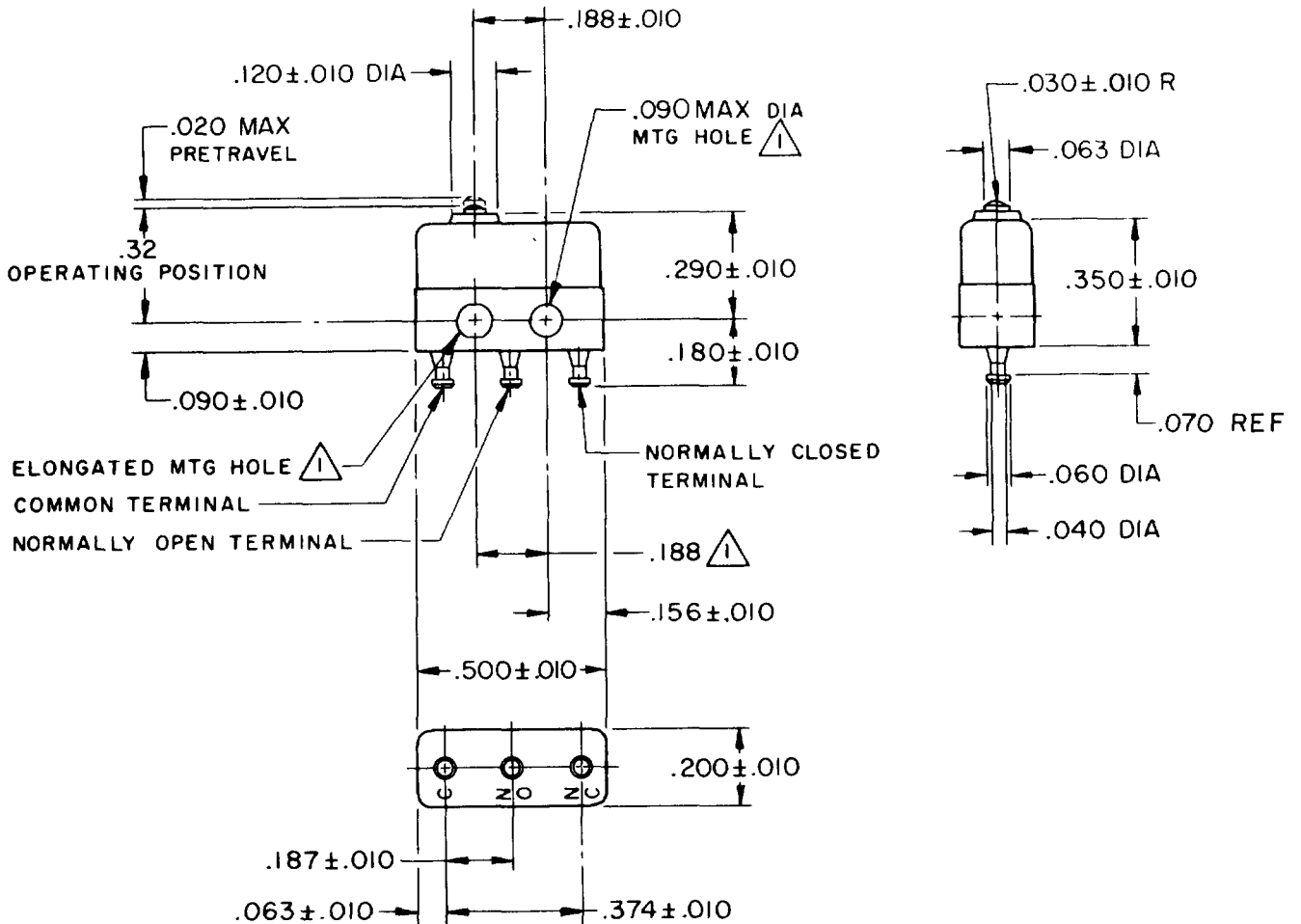
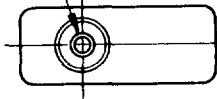
RASTER

FO-50378-1A

DRAWN

M B S 14 MAY 69

PLASTIC PLUNGER



### NOTES

- 1 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
- 5 - STATIONARY CONTACT MATERIAL - GOLD ALLOY

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### CHARACTERISTICS

OPERATING FORCE - - - - - 5 OZ MAX  
RELEASE FORCE - - - - - 1 OZ MIN  
DIFFERENTIAL TRAVEL - - - - .003 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 NOTED  
DIMENSIONS ARE IN INCHES  
**TOLERANCES ARE:**  
ONE PLACE (.0) ± .030  
TWO PLACE (.00) ± .015  
THREE PLACE (.000) ± .005  
ANGLES °

APPROVALS

KEMA, CE	1A 250V ~ T125 25E3	CE
UL, CSA	1A 125 VAC	BRAND L22J

WEIGHT .003 LB MAX