



### 21SX39-T



Actual product appearance may vary.

**SX Series Subminiature Basic Switch, Single Pole Double Throw (SPDT), 250 Vac, 7 A, Pin Plunger Actuator, Solder Termination, Military Part Number MS24547-1**

#### 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
- 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	7 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
Contact Type	Silver

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
High Temperature	204 °C [400 °F]
UL File #	E12252
CSA File #	LR41372
Agency Approvals and Standards	1054
Military Part Number	MS24547-1
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	MIL-S-8805 application requirements 82 °C [180 °F]
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

## 21SX39-T

MILITARY STDS PART NO.

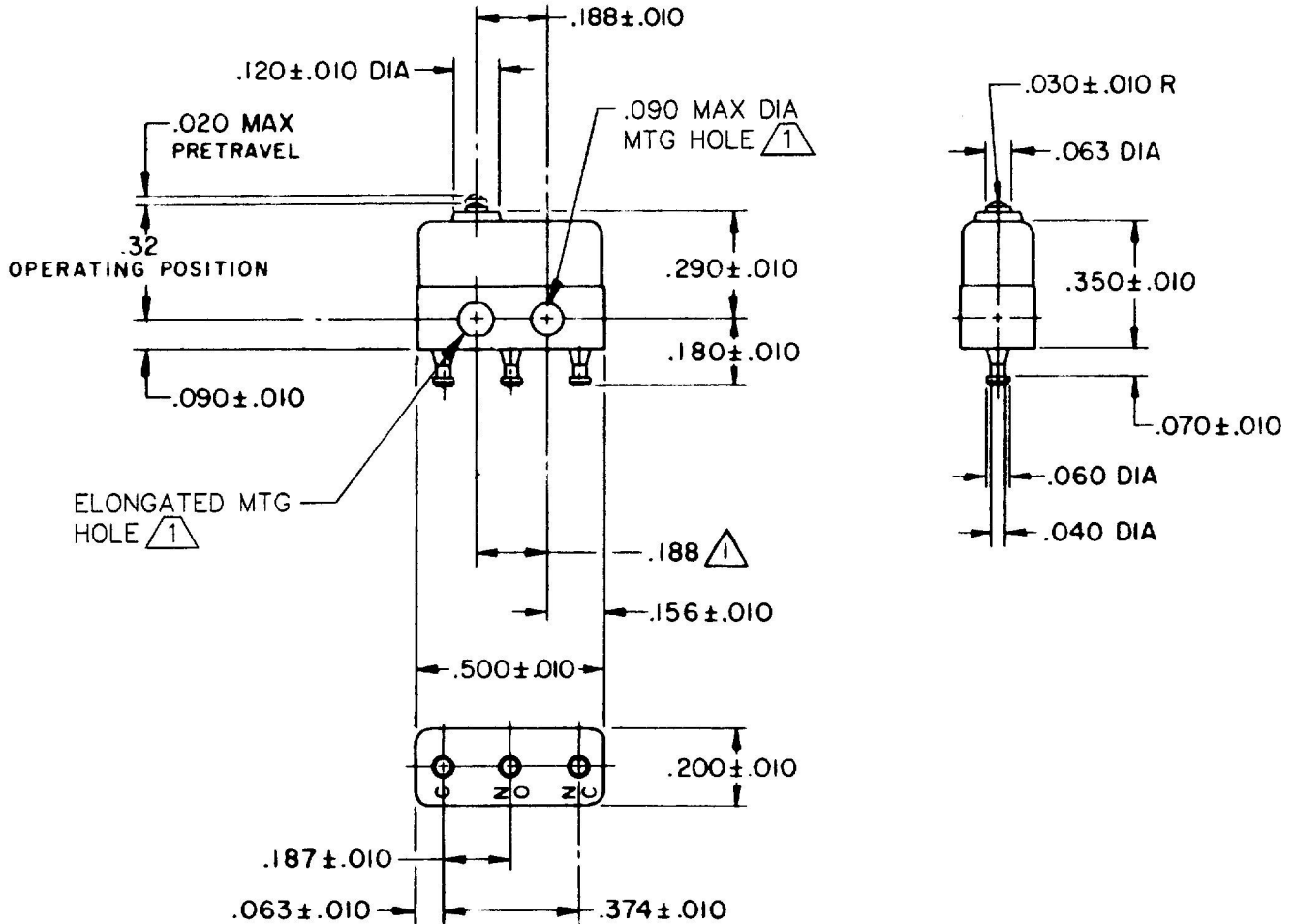
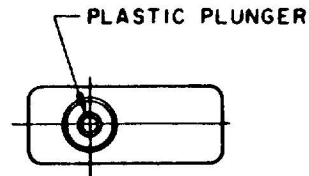
MS 24547-1

PRODUCT CODE

VDM3900

JG - NUMBER

JG-80956 & JG-80956J



### 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 185° F

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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	
INDUCTIVE	28 VDC 115 VAC SEA LEVEL --- 4 AMP --- 7 AMP 50,000 FT --- 2.5 AMP ---
RESISTIVE	SEA LEVEL --- 7 AMP --- 7 AMP 50,000 FT --- 4 AMP ---
LAMP	SEA LEVEL --- 2.5 AMP --- 2 AMP 50,000 FT --- 2.5 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 .003 LB MAX

APPROVALS	KEMA, CE	7A 250V ~ T125 5E4	UL, CSA	7A 250 VAC	MILITARY	MS24547-1

CATALOG LISTING  
**21SX39-T**  
PAGE 1 OF 1

**M**  
DRAWING NUMBER

ISSUE 11

REPLACES SR 12676  
RELEASE NO. 04 APR 05  
CHECK AK

REVISIONS

A	C024780	8 FEB 68	21 OCT 68
B	C038372	K P K	14 MAR 77
C	C057825	JAS	22 JULY 85
D	CO-6432	JAS	29 DEC 87
E	C063221	JAS	19 JUL 88
F	C071574	JAL	4 JUN 82
G	C095544	TSM	28 SEP 99
H	201033	DLT	21 AUG 00
J	201313	CSL	21 SEP 00
K	0012050	BM	04 APR 05

MBF 13 JAN 67  
DRAWN RASTER  
FC-50378