



PRAN ELECTRONICS PVT. LTD.

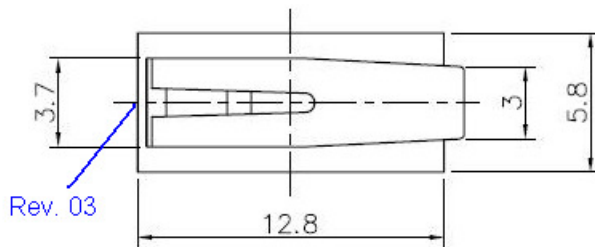
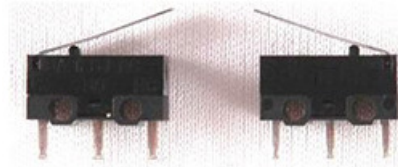
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AN ISO 9001:2000 COMPANY

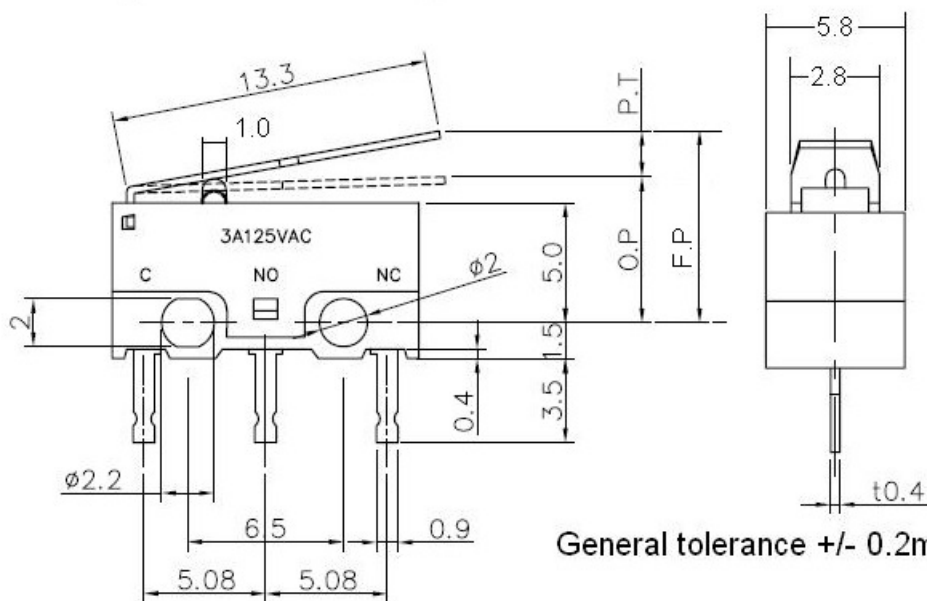
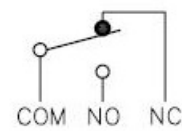
MICRO SWITCH: MS-1283-PL

Rev.04 30/01/2012*

RoHS Compliant

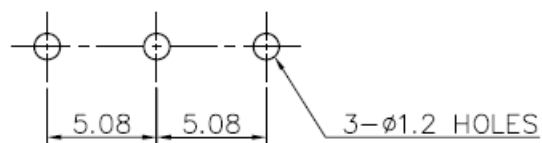


CIRCUIT DIAGRAM



General tolerance +/- 0.2mm

P.C.B DIAGRAM





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Electrical specifications:

Contact Rating	125V AC x 3A, 30V DC x 2 A
Contact Arrangement	SPDT
Operating Life	
At rated load	6,000 cycles
No Load (mechanical)	10,000 cycles
Dielectric Strength for 1 min.	
Between terminals	600V AC
Between terminals and Lever	1500V AC
Between terminals and Case (Body)	1500V AC
Insulation Resistance	100 M Ohms min.
Contact Resistance	
Initial	50 milli Ohms max.
After electrical life cycles	100 milli Ohms max.
Max. Operating frequency	60 operations/min.
Ambient Temperature	-25 Deg. C to 60 Deg. C
Ambient Humidity	Less than 85% RH

Operating characteristics:

Operating Force O.F (max)	40gf \pm 20gf
Return Force R.F (min)	5gf
Pre Travel P.T (max)	1.8mm
Over Travel O.T (min)	0.6mm
Operating position O.P	7.0 \pm 0.5mm

Material Specifications:

Case	Nylon 66 G30
Plunger	Nylon 66 G30
Cover	Nylon 66 G3
Terminals	Brass Silver Plated
Contacts plate	Beryllium Cooper with Silver rivets

***Revision notes:**



01 21/10/2008	Tolerance specified
02 06/05/2010	Electrical specs. and dimensional details
03 05/08/2011	Cover improved to withstand reverse pull force
04 30/01/2012	Operating life and force correction



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Rev.04 30/01/2012*

Soldering conditions and precautions for Micro and tactile switches:

	Item	Condition		Item	Condition
	Flux built-up	Mounting surface should not be exposed to Flux		Soldering Temperature	280 °C max
	Preheating temperature	temperature of the soldered surface of PC board 100 °C max		Duration of soldering	3s max
	Preheating time	60s max		Capacity of soldering iron	60w max
	Soldering temperature	260°C max			
	Duration of immersion	5s max			
	Number of soldering	2cycles			

Soldering Precautions:

1. Cleaning with solvent or IPA: Kindly ensure the solvent or IPA does not enter the Switch moving parts, do not dip the entire board with switch in IPA or cleaning liquid as flux or cleaning residue can cause damage to switch function and movement.
2. Conformal coating: Do not spray conformal coating on the switch, if using conformal coating for PCB, cover the switch area with a cap to prevent conformal coating from entering the switch. Conformal coating on switch can cause switch to malfunction.
3. Observe soldering temperature and time as above.
4. Store the switches in original bags with silica gel bags and reseal unused switches. All switches have silver coating on terminals and long exposure to open air can cause silver oxidation resulting in poor soldering.