

# MICRO SWITCH MS 40

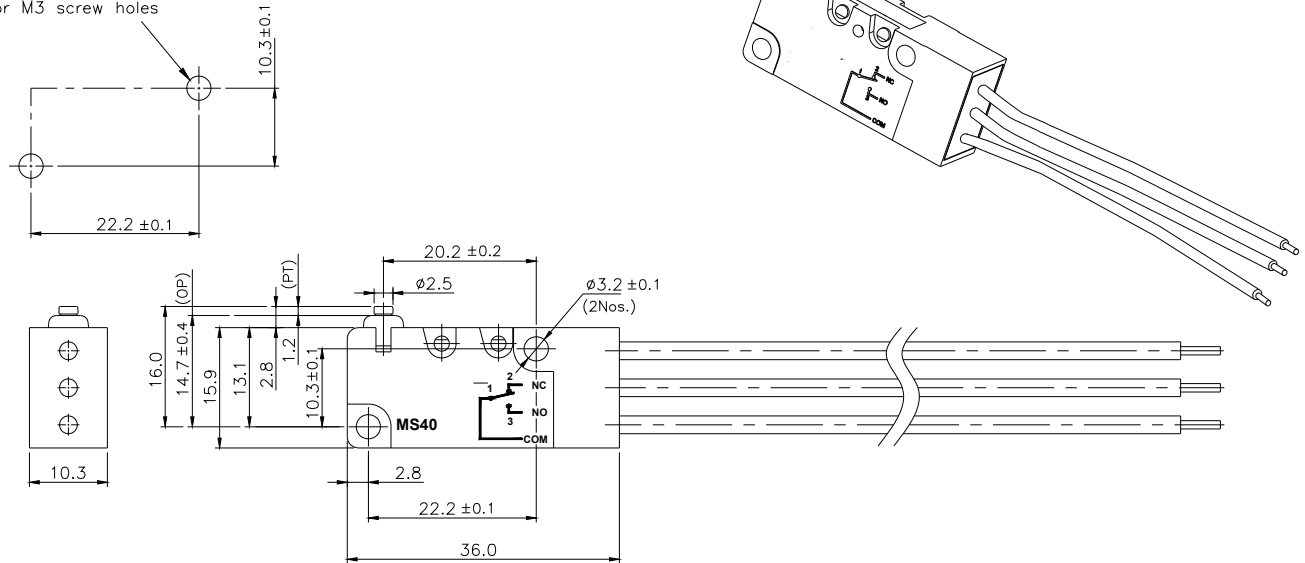
FM : MT : 57

REV. No. : I

PAGE : 01 OF 02

## MOUNTING HOLE DIMENSION

Two  $\phi 3.2$  mounting holes  
or M3 screw holes







**MS40** miniature, snap action, sealed microswitches are robust in their construction and possess a built in precision, repeatability and reliability in their operation. They are versatile and find application in Automobiles, Home appliances, agricultural m/cs and industrial equipment which require high environmental resistance. We have the approvals from CSA, UL and ENEC mark from KEMA.

**MECHANISM:** Single pole, snap action, change-over contacts which may be used to provide a double throw switch to change from one circuit to another with a common supply line, or may be used as normally closed or normally open switches. The change-over time in all the cases is independent of the plunger speed. The epoxy resin and the seal used gives a very good protection against the ingress of dust and water.

## TECHNICAL DATA :

RATING (UL AND CSA)	: 0.1A, 32V DC 0.1A, 125V AC
RATING (ENEC)	: 0.1A, 32V DC 6(2)A, 250V AC
MECHANICAL ENDURANCE	: 1,000,000 CYCLES (min.)
ELECTRICAL ENDURANCE AT ACTUAL LOAD	: 1,000,000 CYCLES (min.) for rating of 0.1A, 125VAC/32VDC 50,000 CYCLES (min.) for rating of 6(2)A, 250V AC
INITIAL INSULATION RESISTANCE	: > 100 M $\omega$ (AT 500 VDC)
INITIAL CONTACT RESISTANCE	: < 100 m $\omega$
CONTACT GAP	: MICRO DISCONNECTION <b>m</b>
DI-ELECTRIC STRENGTH	: 1500V FOR 1 MIN. BETWEEN POLE TO BODY 750V ACROSS MICRO DISCONNECTION
CASE MATERIAL	: PBT (GF)
TERMINAL MATERIAL	: BRASS
MOUNTING	: M3 MOUNTING SCREWS WITH PLAIN OR SPRING WASHER IS RECOMMENDED. SCREWS TO BE TIGHTENED WITH A TORQUE OF 0.4 TO 0.6 N·m

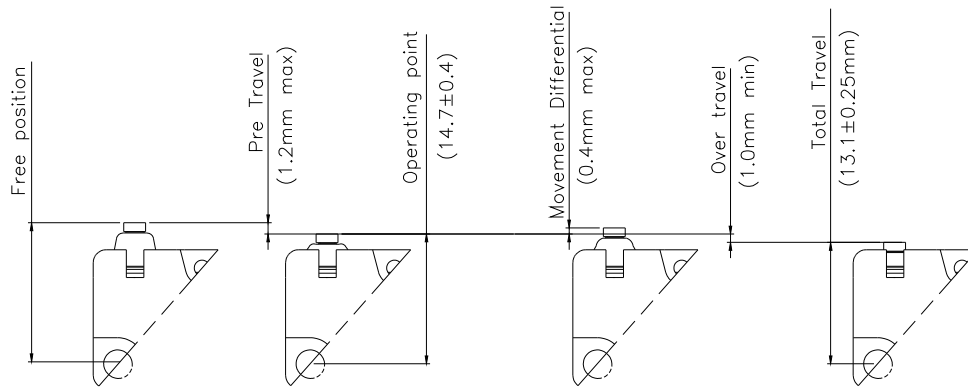
CONTACT MATERIAL	: SILVER (Gold plated)-crossbar for rating of: 0.1A, 125VAC/32VDC  SILVER ALLOY for rating of 6(2)A, 250VAC
OPERATING TEMPERATURE	: T85
DEGREE OF PROTECTION	: IP 67 (IEC 529)
PROTECTION AGAINST ELECTRIC SHOCK	: CLASS II APPLIANCES EN 61058-1:1992+A1:1993
GLOW WIRE TEST	: LEVEL 'C', 850°C EN 61058-1:1992+A1:1993
DEGREE OF POLLUTION	: NORMAL EN 61058-1:1992+A1:1993
PROOF OF TRACKING INDEX	: PTI 175V
VIBRATION RESISTANCE	: 20G, 50 TO 250Hz
SHOCK RESISTANCE	: 20G
APPROVALS	:    
APPLICABLE STANDARDS	: UL 1054, CSA C22.2 No. 55 EN 61058-1:1992+A1:1993

# MICRO SWITCH MS 40

FM : MT : 57

REV. No. : L

PAGE : 02 OF 02



Force measured at PT is the Operating Force (200g max)

Force measured at MD is the Return Force (30g min)

<p>WITHOUT LEVER</p> <p>(00)</p>	<p>SHORT PLAIN LEVER</p> <p>(01)</p>	<p>MEDIUM PLAIN LEVER</p> <p>(02)</p>	<p>LONG PLAIN LEVER (PART NO 2 440 4447)</p> <p>(03)</p>	<p>SHORT ROLLER LEVER (WITH METAL ROLLER) (PART NO 2 440 4598)</p> <p>(04)</p>
<p>SHORT ROLLER LEVER (WITH PLASTIC ROLLER) (PART NO 2 440 4598)</p> <p>(05)</p>				

## OPERATING CHARACTERISTICS WITHOUT LEVER

OPERATING FORCE (OF)	: 200 gms (1.96 N) MAX.
RETURN FORCE (RF)	: 30 gms (0.29 N) MIN.
PRE TRAVEL (PT)	: 1.2 mm (MAX)
OVER TRAVEL (OT)	: 1.0 mm (MIN)
MOVEMENT DIFFERENTIAL (MD)	: 0.4 mm (MAX)
OPERATING POINT (OP)	: 14.7 ±0.4 mm
TOTAL TRAVEL	: 13.1 ±0.25 mm

## ORDERING CODE

MS40	- NC -	30	- 01 -	00
BASIC SWITCH	CONNECTION			LEVER TYPE (REFER ABOVE SKETCH)
	NC-NORMALLY CLOSED NO-NORMALLY OPEN CO-CHANGE OVER			00-WITHOUT LEVER
	0.5mmsq. PVC INSULATED WIRE LENGTH			RATING
	10-100MM 15-150MM 20-200MM 25-250MM 30-300MM 35-350MM 40-400MM 45-450MM 50-500MM			01- 0.1A, 125VAC/32VDC 6- 6(4)A, 250VAC /32V DC
	(1ST DIGIT FOR MULTIPLE OF 100 2ND DIGIT FOR MULTIPLE OF 10)			

:

:

: