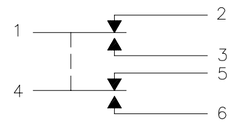
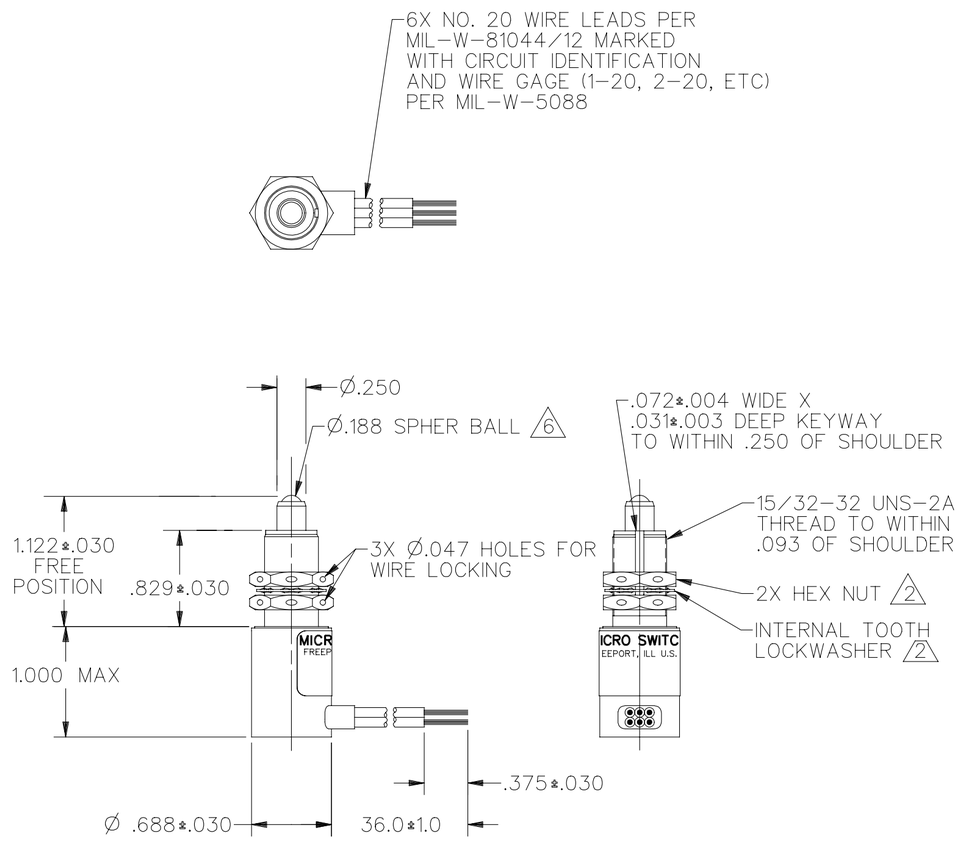


CIRCUIT DIAGRAM



NOTES

1 – CIRCUIT DIAGRAM AND CATALOG LISTING SHOWN ON NAMEPLATE

2 HARDWARE MAY BE PACKAGED UNASSEMBLED PER MIL-S-8805. 2X NUT: .62 ACROSS FLATS X .125 THICK (MS 21340-04), INTERNAL TOOTH: Ø.60 X (.018) (MS 35333-136)

3 CONTACT HONEYWELL-MICRO SWITCH IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS

4 LIFE RATINGS ARE PER MIL-S-8805 REQUIREMENTS. ACTUAL LIFE EXCEEDS RATED LIFE. CONTACT HONEYWELL-MICRO SWITCH FOR ADDITIONAL DATA

5 SWITCH RESISTANCE EQUALS SWITCH CONTACT RESISTANCE PLUS WIRE LEAD LENGTH (OHMS/FT). SWITCH CONTACT RESISTANCE SHALL NOT EXCEED .025 OHMS INITIALLY AND .040 OHMS AFTER MECHANICAL ENDURANCE TEST. AFTER ELECTRICAL ENDURANCE, THE SWITCH CONTACT RESISTANCE SHALL NOT EXCEED 1% OF THE LOAD IMPEDANCE USING THE ELECTRICAL PARAMETERS OF THE ELECTRICAL ENDURANCE TEST LOAD. WIRE LEAD RESISTANCE EQUALS 9.88 OHMS/1000 FT MAX AT 20° C

6 ROLLER BALL BEARING PLUNGER FOR USE WITH 20° MAX RISE ON CAM OR SLIDE ACTUATION

SPECIFICATION DETAILS:

M 4602CH1-3

STANDARD:	CONFORMS TO MS27240-3 (MIL-S-8805/43), EXCEPT AS NOTED
CONSTRUCTION:	
ENCLOSURE DESIGN	WATERTIGHT SEAL PER MIL-S-8805, SYMBOL 3
CONTACT MATERIAL & CONFIGURATION	SMOOTH SILVER CONTACTS WITH GOLD PLATE
CIRCUIT CONFIGURATION	2 SPDT
TERMINATION	LEADWIRE PER MIL-W-81044/12
WEIGHT	4.0 OZS MAX
EXPOSED METALS	CORROSION RESISTANT STAINLESS STEEL
ELECTRICAL CHARACTERISTICS:	
ELECTRICAL RATINGS	VOLTAGE / RESISTIVE / LOAD INDUCTIVE / MOTOR
–SEA LEVEL	28VDC 7A 4A 4A
–50,000 FEET	28VDC 7A 2.5A
DIELECTRIC STRENGTH & INSULATION RESISTANCE	DIELECTRIC STRENGTH (≈60 Hz, FOR 5 SECONDS) / INSULATION RESISTANCE (500 VDC ±10%)
–BETWEEN TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL	1000 V Rms, 500μA (MAX LEAKAGE) / 1000 Megohm MIN
–BETWEEN TERMINALS OF MUTUALLY INSULATED CIRCUITS	1000 V Rms, 500μA (MAX LEAKAGE) / 1000 Megohm MIN
–BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE	1000 V Rms, 500μA (MAX LEAKAGE) / 1000 Megohm MIN
SWITCH RESISTANCE	5
RECOMMENDATION OR USE IN APPLICATIONS LESS THAN .5 AMPS AND/OR 12 VOLTS	NO 3
MECHANICAL CHARACTERISTICS:	
CHARACTERISTICS:	
COINCIDENCE OF OPERATING AND RELEASING POINTS	.010 OF PLUNGER TRAVEL
OPERATING FORCE	3–6 LBS
FULL OVERTRAVEL FORCE	17 LB MAX
RELEASE FORCE	2 LB MIN
PRETRAVEL	.040 MAX
DIFFERENTIAL TRAVEL	.020 MAX
OVERTRAVEL	.125 MIN
MOUNTING STRENGTH	15 IN-LBS
ACTUATOR STRENGTH	30 LBS APPLIED IN A DIRECTION TO CAUSE SWITCH ACTUATION
LIFE:	
MECHANICAL LIFE	PER MIL-S-8805/43 4
ELECTRICAL LIFE AT FULL RATED LOAD	PER MIL-S-8805/43 4
ENVIRONMENTAL:	
TEMPERATURE RANGE	–55°C TO +85°C
ALTITUDE RANGE	SEA LEVEL TO 50,000 FEET
SHOCK	PER MIL-S-8805 SYMBOL M – 100 g
VIBRATION	PER MIL-S-8805 SYMBOL 2 – 10–2000 Hz & 15 g PEAK
MOISTURE RESISTANCE	PER MIL-S-8805
THERMAL SHOCK	PER MIL-S-8805
SALT SPRAY	PER MIL-S-8805

LIFE RATINGS BEYOND MIL-S-8805 REQUIREMENTS PER MICRO SWITCH TEST PLAN	
MECHANICAL LIFE	100,000

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH. A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.

MICRO SWITCH a Honeywell Division
FED. MFG. CODE 91929

SWITCH–ENCLOSED

CATALOG LISTING 4602CH1-3

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

WEIGHT

MASTER REDUCED
ANSI Y14.5M–1982 APPLIES

DRAWING NUMBER 4602CH1-3 | RELEASE NO. PR-22143-T | REPLACES | PAGE 1 OF 1 | ISSUE 5 | M | CHECK | CHECK | TSM 16SEP96 | CHECK | DRAWN MAM 10SEP96 | DDM/CAD

REVISIONS
A PR22143 MAM 10 SEP 96
B C083869 TSM 31 OCT 96

Downloaded from Arrow.com.