



SPECIFICATION DETAILS:		M	31EN11-6
STANDARD:	CONFORMS TO MS21320-1 (MIL-PRF-8805/48), EXCEPT AS NOTED		
CONSTRUCTION:	RESILIENT SEAL PER MIL-PRF-8805, SYMBOL 4		
ENCLOSURE DESIGN	SMOOTH SILVER CONTACTS		
CONTACT MATERIAL & CONFIGURATION	2 SPDT		
CIRCUIT CONFIGURATION	LEADWIRE PER MIL-W-22759/7		
TERMINATION	9.5 OZ MAX		
WEIGHT	CORROSION RESISTANT STAINLESS STEEL 1		
EXPOSED METALS			
ELECTRICAL CHARACTERISTICS:			
ELECTRICAL RATINGS	VOLTAGE	RESISTIVE	LOAD INDUCTIVE
-SEA LEVEL	28 VDC	5A	3A
-50,000 FEET	28 VDC	5A	2A
MOTOR	4A		
DIELECTRIC STRENGTH & INSULATION RESISTANCE	DIELECTRIC STRENGTH (60 Hz. FOR 5 SECONDS)		INSULATION RESISTANCE (500 VDC $\pm 10\%$ )
-BETWEEN TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL	1000 V Rms, 500 $\mu$ A (MAX. LEAKAGE)		1000 Megohms MIN
-BETWEEN TERMINALS OF MUTUALLY INSULATED CIRCUITS	:		:
-BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE	:		:
SWITCH RESISTANCE	N/A		
RECOMMENDATION OR USE IN APPLICATIONS LESS THAN .5 amps AND/OR 12 volts	NO 3		
MECHANICAL CHARACTERISTICS:			
CHARACTERISTICS:			
OPERATING TORQUE	12-25 IN-LBS		
FULL OVERTRAVEL TORQUE	40 IN-LBS MAX		
RELEASE TORQUE	9 IN-LBS MIN		
FREE POSITION	SEE DETAIL		
PRETRAVEL	SEE DETAIL		
DIFFERENTIAL TRAVEL	SEE DETAIL		
OVERTRAVEL	SEE DETAIL		
MOUNTING STRENGTH	15 IN-LBS		
ACTUATOR STRENGTH	10 LBS APPLIES IN A DIRECTION TO CAUSE SWITCH ACTUATION		
LIFE:			
MECHANICAL LIFE	25,000 MIN. PER MIL-PRF-8805/48 1		
ELECTRICAL LIFE AT FULL RATED LOAD	25,000 MIN. PER MIL-PRF-8805/48 1		
ENVIRONMENTAL:			
TEMPERATURE RANGE	-55 C TO +85 C		
ALTITUDE RANGE	SEA LEVEL TO 50,000 FEET		
SHOCK	PER MIL-PRF-8805 SYMBOL M - 100 g		
VIBRATION	PER MIL-PRF-8805 SYMBOL I - 10-500 Hz. & 10 g peak		
MOISTURE RESISTANCE	PER MIL-PRF-8805		
THERMAL SHOCK	PER MIL-PRF-8805		
SALT SPRAY	PER MIL-PRF-8805		

- NOTES
- 1 - UNLESS OTHERWISE NOTED
  - 2 - SWITCH SEALED PER MIL-PRF-8805, SYMBOL 4
  - 3 - CONTACT HONEYWELL-MICRO SWITCH IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS
  - 4 - DO NOT APPLY MORE THAN 20-25 INCH-POUNDS OF TORQUE WHEN TIGHTENING LOCKING NUT
  - 5 - CIRCUIT DIAGRAM, CATALOG LISTING AND MILITARY STANDARD NO. MS 21320-1 ARE SHOWN ON NAMEPLATE
  - 6 - HARDWARE MAY BE PACKAGED UNASSEMBLED PER MIL-PRF-8805
  - 7 - REPLACEMENT MOUNTING HARDWARE - PACKET 19PA10
  - 8 - .050 WIDE X .050 DEEP SLOT
  - 9 -  $\varnothing .037$  HOLE FOR WIRE LOCKING
  - 10 - 6X NO 20 LEAD WIRE PER MIL-W-22759/7 MARKED WITH CIRCUIT IDENTIFICATION AND WIRE GAUGE (1-20, 2-20 ETC) PER MIL-W-5088
  - 11 - LIFE RATINGS ARE PER MIL-PRF-8805 REQUIREMENTS. ACTUAL LIFE EXCEEDS RATED LIFE. CONTACT HONEYWELL-MICRO SWITCH FOR ADDITIONAL DATA
  - 12 - DIE CAST ALUMINUM

THIRD ANGLE PROJECTION	
SCALE	2:1
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE (.0)	+0.30
TWO PLACE (.00)	+0.015
THREE PLACE (.000)	+0.005
ANGLES	+
WEIGHT	-

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FED. MFG. CODE 91929	CATALOG LISTING
<b>MICRO SWITCH</b> a Honeywell Division	<b>SWITCH - ENCLOSED</b>
<b>31EN11-6</b>	MILITARY STD PART NUMBER MS21320-1

PTC/CAD 2D  
DRAWN  
TSM  
8NOV01  
CHECK  
SAV  
8NOV01  
CHECK  
39  
ISSUE  
OF  
31EN11-6  
REPLACES  
SR-5323