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REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
E		REVISED PER ECO-17-002273	10OCT2017	RK	AS

Technical drawing of a square actuator switch. The drawing includes a front view, a side view, and a detail view of the terminal pins. Dimensions are provided in millimeters and inches in brackets. Key dimensions include: front view width 6.00 [.236], diameter 3.40 [.134], and hole diameter 1.00 [0.039] (4X). Side view dimensions include stroke 0.25 [.010], terminal height 7.90 [.311] TYP, and actuator travel 0.30 [.012] TYP. The detail view shows terminal pins with a diameter of 0.70 [.028] TYP and a length of 4.50 [.177].

RECOMMENDED HOLE LAYOUT  
 TOLERANCE ±.002 UNLESS OTHERWISE NOTED

Diagram showing the recommended hole layout for the actuator. It features four holes arranged in a square pattern. The diameter of each hole is 1.00 mm [0.039] (4X). The pitch between adjacent holes is 6.50 ± 0.10 mm [0.256 ± 0.004]. The distance from the center of the holes to the bottom edge is 4.50 ± 0.10 mm [0.177 ± 0.004].

RECOMMENDED HOLE LAYOUT  
 TOLERANCE ±.002 UNLESS OTHERWISE NOTED

SPECIFICATIONS:

MATERIALS:  
 CASE, NYLON 66, UL94HB, BLACK FINISH  
 COVER, PET FILM, WHITE  
 ACTUATOR, NYLON 66, UL94HB, SEE P/N TABLE FOR FINISH  
 MOVING CONTACT, COPPER ALLOY, SILVER FINISH  
 FIXED CONTACT/TERMINAL, COPPER ALLOY, SILVER OVER NICKEL FINISH

ELECTRICAL:  
 MAX CONTACT RATING, 50MA@ 24V DC, PER EIA-448, METHOD 6  
 MIN CONTACT RATING, 10MICROAMP@1V DC  
 INITIAL CONTACT RESISTANCE, 50 MILLIOHMS MAX, PER EIA-364-23B, EACH POSITION  
 INSULATION RESISTANCE, 1000 MEGOHM MIN. PER EIA-364-21C EACH POSITION  
 DIELECTRIC STRENGTH, 500 V AC FOR 1 MINUTE, PER EIA-364-20B, CONDITION 1, EACH POSITION.  
 LIFE EXPECTANCY, 100,000 CYCLES

MECHANICAL:  
 ACTUATION FORCE, SEE P/N TABLE  
 ACTUATION TRAVEL, .25 +/- .10 MM  
 LIFE EXPECTANCY, 100,000 CYCLES MIN (2 CYCLES PER SECOND AND 150% ACTUATION FORCE), PER EIA-448 METHODS 8 AND 9  
 VIBRATION, PER EIA 364-28D, CONDITION VII, LEVEL E  
 MECHANICAL SHOCK, PER EIA-364-27C, CONDITION A

ENVIRONMENTAL:  
 OPERATING TEMPERATURE, -35 TO +85 DEGREES C, PER EIA-448, METHOD 10  
 STORAGE TEMPERATURE, -35 TO +85 DEGREES C  
 HUMIDITY AND TEMPERATURE CYCLING PER EIA-364-31B, METHOD III  
 THERMAL SHOCK, PER EIA-364-32C, -35 TO +85 DEGREES C  
 SOLDERABILITY, PER EIA-364-52, CLASS 2, CATEGORY 1, TEMP, 245 DEGREES C MAX, TIME, 2.5 SECONDS MAX, 95% MINIMUM COVERAGE  
 RESISTANCE TO SOLDER HEAT, PER 109-202, CONDITION B  
 NO CHANGE IN INITIAL ELECTRICAL AND MECHANICAL CHARACTERISTICS

1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003(ROHS).

( )-INDICATES MOMENTARY POSITION  
 CIRCUIT CHARACTERISTICS

CONTACT POSITION	CIRCUIT DIAGRAM
OFF	
(ON) 1-3 2-4	

OBSOLETE	RED	260±50 GF	2.42 [.095]	FSMDCW	1825967-3
	BLACK	160±50 GF	2.80 [.110]	FSMCDAH	1825967-2
	BLUE	160±50 GF	2.42 [.095]	FSMCDH	1825967-1
	ACTUATOR BUTTON COLOR	ACTUATION FORCE	DIM A	ALCO PART NO.	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R BROWN 13FEB2007	TE Connectivity		
DIMENSIONS: mm [INCHES]		CHK M SARVER 13FEB2007			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M SARVER 13FEB2007	NAME ACT SWITCH, SQUARE ACTUATOR, 6.0 mm, HIGH TEMP FSMCDH		
0 PLC ± - 1 PLC ± - 2 PLC ± 0.30 [.012] 3 PLC ± - 4 PLC ± - ANGLES ± -		PRODUCT SPEC	SIZE A2		
MATERIAL SEE SPECIFICATIONS		FINISH -	CAGE CODE 00779		DRAWING NO C=1825967
		WEIGHT	RESTRICTED TO		
		CUSTOMER DRAWING	SCALE 4:1	SHEET 1 OF 1	REV E

1471-9 (1/15)

1825967

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