OPERATING CHARACTERISTICS

OPERATING FORCE @ 90°F IS 4.25 - 10 LB

NOTE

EACH LEAD MUST NOT PULL OFF FROM SWITCH ASSEMBLY
WITH AN 18 LB. PULL FORCE APPLIED FOR ONE SECOND

WIRE SPECIFICATIONS

INSULATED WIRE MUST MEET SAE J1128
125°C MIN BXI, INSULATION, 110°C, 0.0103 A.I. PER SAE J378

WATERPROOF

THIS TEST MUST BE DONE WITH DEIONIZED WATER WITH THE
ADDITION OF TRITON 100 WETTING AGENT, (ONE DROP PER
PINT OF WATER) TO ELIMINATE SURFACE TENSION BUBBLES.
1. WITH THE PLUNGER AT REST. BUBBLES THAT ORIGINATE WITHIN THE SWITCH SHALL NOT BE RELEASED
WHEN THE SWITCH, EXCLUDING THE LEAD WIRE ENDS, IS SUBMERSED
IN A CONTAINER OF WATER SUBJECTED TO 20 INCHES Hg VACUUM FOR
ONE MINUTE
2. WITH THE PLUNGER DEPRESSED
REPEAT AS ABOVE EXCEPT USE 10 INCHES Hg VACUUM

CONTINUITY TEST

SWITCH SHALL PASS CONTINUITY TEST BEFORE AND AFTER WATERPROOF
AND CYCLE TESTS
1. CURRENT LEAKAGE AT 60 VDC SHALL NOT EXCEED 50 MICROAMPS. TEST
SHALL BE PERFORMED WITH THE PLUNGER AT REST
2. VOLTAGE DROP AT 3 AMPS (12-15 VDC) SHALL NOT EXCEED 150 MILLIVOLTS
WHEN MEASURED BETWEEN LEADS WITHIN ONE INCH OF SWITCH BODY
TEST SHALL BE PERFORMED WITH THE PLUNGER DEPRESSED

CYCLE TEST

SWITCH MUST PASS WATERPROOF TEST & CONTINUITY TEST BEFORE AND
AFTER 50,000 CYCLES OF DISCHARGING A 1 MICRO FARAD CAPACITOR
CHARGE TO 300 VOLTS THROUGH A 10 OHM RESISTOR AT THE RATE
OF 1.5 SECONDS "ON" AND 1.5 SECONDS "OFF"

SWITCH

INTERNAL RING CONTACT AND TERMINALS TO BE FINE SILVER PLATED
TO 0.001" - 0.003 THICK

NOTES

1) HOUSING AND PLUNGER ARE CELCON 12% (GLASS FILLED)
2) END USER IS RESPONSIBLE FOR LIMITING PLUNGER TRAVEL OF
SWITCH TO 100 MAX WHEN SWITCH IS INSTALLED IN ITS
APPLICATION
3) INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5-2009

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DECLARATION OF CONFORMITY

DELTA SYSTEMS INC. DOES NOT ACCEPT LIABILITY FOR INJURY, DAMAGE OR LOSS OUT OF THE MISAPPLICATION OF ANY PRODUCT

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TO LEAF LEAF.

DELTA SYSTEMS INC.

June 24, 2014

N.O.

Universal Switch N.O. Application

DRAWING NO.

DEVELOPED BY

PROJECTED VIEWS

ABR. 30° ANGLES

ENGINEERING

J. K. ELLIS

NBS

DO NOT SCALE DRAWING

DATE

DRAWING

1 OF 1

04/02/15

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