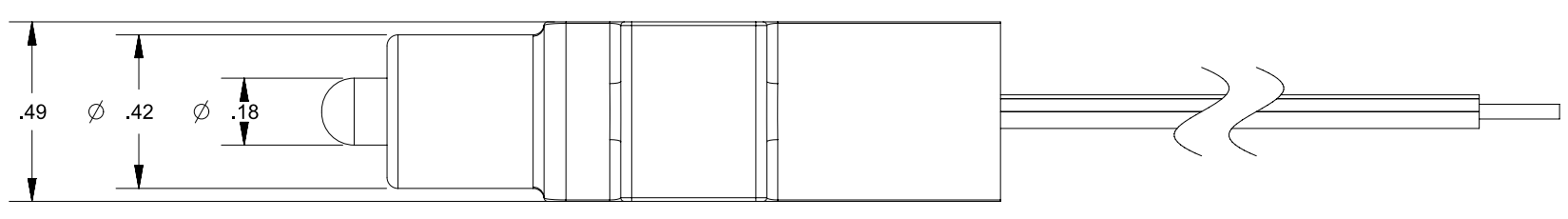
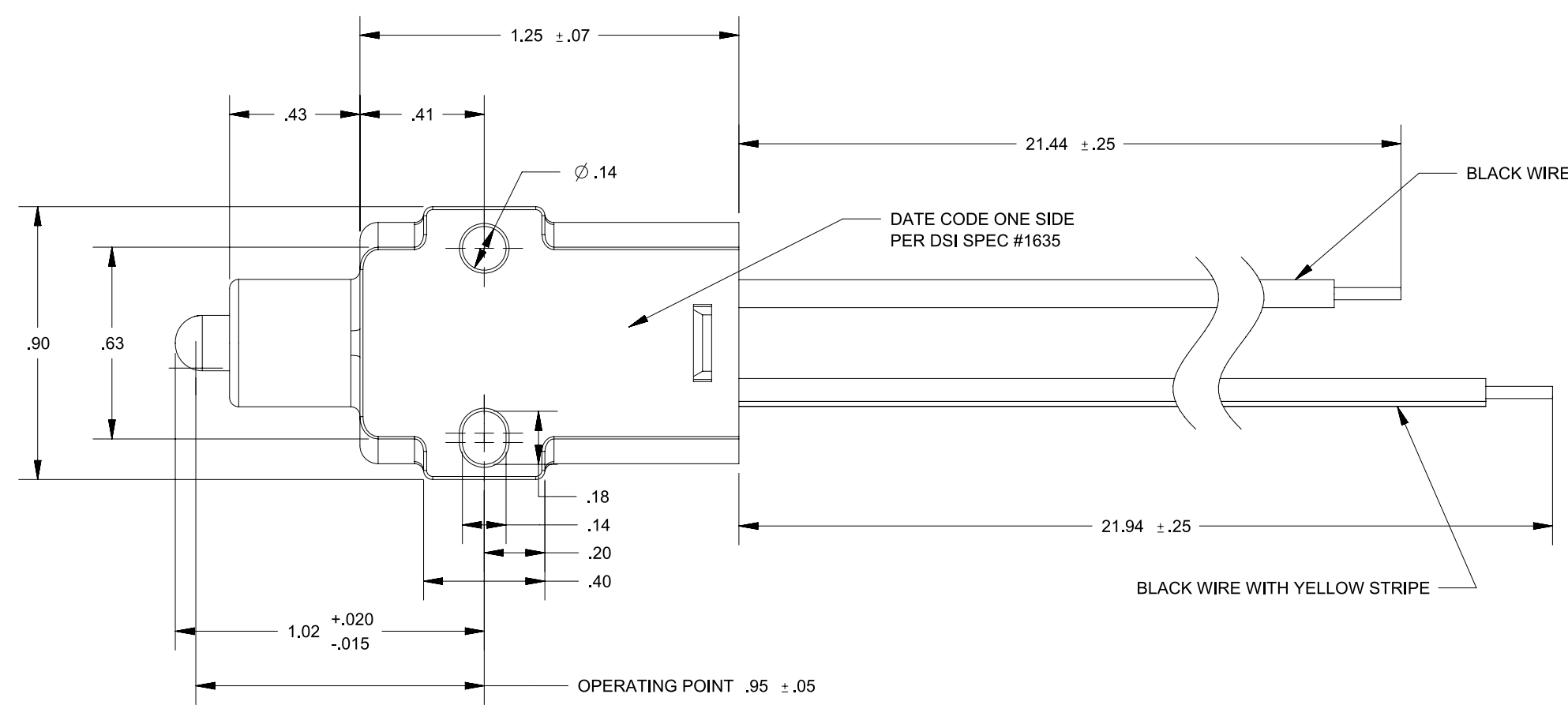


REVISIONS			
REV.	DESCRIPTION	DATE	INIT
0	INITIAL RELEASE	10/17/14	MJS
1	REMOVED NOTE FROM OPERATING POINT DIMENSION, REVISED OPERATING FORCE, ECO475	12/11/15	PJC



INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.5-2009

**OPERATING CHARACTERISTICS**

OPERATING FORCE @ .060 IS 1.60 ± 0.5 LB

**NOTES**

- EACH LEAD MUST NOT PULL OFF FROM SWITCH ASSEMBLY WITH AN 18 LB PULL FORCE APPLIED FOR ONE SECOND
- RADII ARE R .030 UNLESS OTHERWISE SPECIFIED
- UNLESS OTHERWISE SPECIFIED, ALL MUTUALLY CO-AXIAL FEATURES MUST BE IN TRUE POSITION WITHIN Ø .005 RFS
- CIRCUIT NORMALLY OPEN OPERATION
- MATERIAL: SWITCH BODY - UV STABLE ACETAL COPOLYMER WITH 12% GLASS FILL  
BLACK PLUNGER - 12% GLASS FILLED ACETAL
- WIRE LEADS ARE NOT OF EQUAL LENGTH

**WIRE SPECIFICATIONS**

- INSULATED WIRE MUST MEET SAE J1128  
18-AWG-41 STRANDS OF #34 TINNED COPPER WIRE  
125° C MIN SXL INSULATION .110 ± .010 DIA 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.
- WITH THE PLUNGER AT REST:  
BUBBLES THAT ORIGINATE WITHIN THE SWITCH SHALL NOT BE RELEASED WHEN THE SWITCH, EXCLUDING THE LEAD WIRE ENDS, IS SUBMERGED IN A CONTAINER OF WATER SUBJECTED TO 20 INCHES Hg VACUUM FOR ONE MINUTE
- 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
- CURRENT LEAKAGE AT 500VDC SHALL NOT EXCEED 50 MICROAMPS, TEST SHALL BE PERFORMED WITH THE PLUNGER AT REST
- VOLTAGE DROP AT 3 AMPS (12-13 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 FARRAD CAPACITOR CHARGE TO 350 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 .0001-.0003 THICK

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		CHECKED bkirkman	DATE 19-Dec-2014			
		APPROVED ikirbawy	DATE 16-Jun-2015			
		MATERIAL SEE NOTES	PROJECTED VIEWS ARE 3RD ANGLE			
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		STATUS DS4_Design	SCALE NTS	SHEET 1 OF 1	PROJECT NO. EX0257	REVISION 1