

REVISIONS			
REV.	DESCRIPTION	DATE	INIT
0	INITIAL RELEASE	10/30/14	MJS
1	REMOVED NOTE FROM OPERATING POINT DIMENSION, REVISED OPERATING FORCE, ECO484	12/28/15	PJC

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

OPERATING CHARACTERISTICS

- ① CIRCUIT NORMALLY OPEN OPERATION
- OPERATING FORCE AT 0.060 TRAVEL IS 1.6 ±0.5 LBS

NOTE:

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

WIRE SPECIFICATIONS:

INSULATED WIRE MUST MEET SAE J1128.
 18 AWG - 41 STRANDS OF #34 TINNED COPPER WIRE
 125°C MIN. SXL INSULATION .110 ±.010 DIAMETRICALLY PER SAE J378

WATERPROOF TEST:

THIS TEST MUST BE PERFORMED WITH DEIONIZED WATER WITH THE ADDITION OF TRITON #100 WETTING AGENT (ONE DROP PER PINT OF WATER) TO ELIMINATE SURFACE TENSION BUBBLES.

1) WITH 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.

2) WITH PLUNGER DEPRESSED

REPEAT AS ABOVE WITH 10 INCHES Hg VACUUM.

CONTINUITY TEST:

SWITCH SHALL PASS CONTINUITY TEST BEFORE AND AFTER WATERPROOF AND CYCLE TESTS.

1) CURRENT LEAKAGE AT 500 VOLTS D.C. SHALL NOT EXCEED 50 MICROAMPS. TEST SHALL BE PERFORMED WITH THE PLUNGER AT REST.

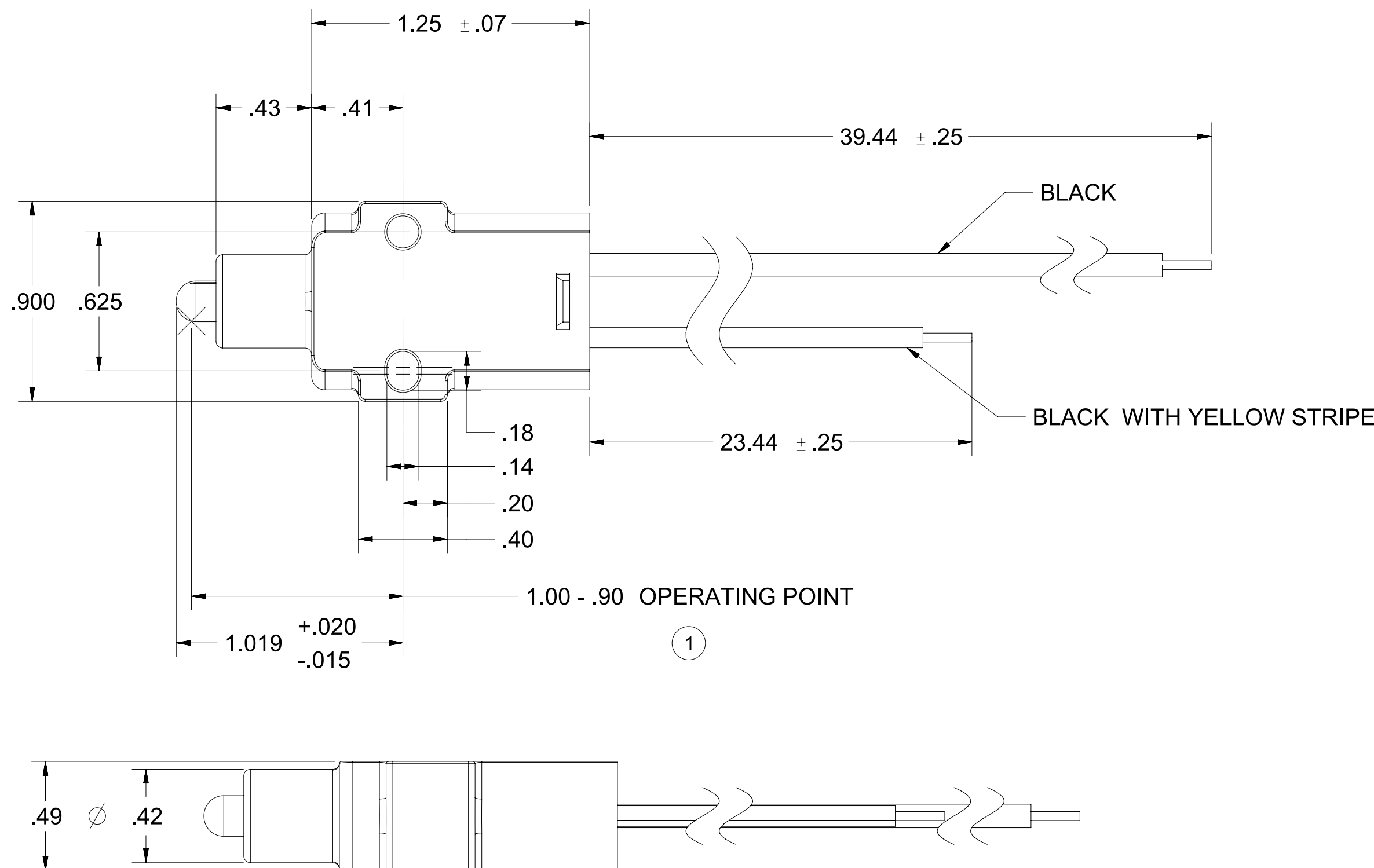
2) VOLTAGE DROP AT 3 AMPS (12-15 VOLTS D.C.) SHALL NOT EXCEED 150 MILLIVOLTS WHEN MEASURED BETWEEN LEADS WITHIN ONE INCH OF THE SWITCH BODY. TEST SHALL BE PERFORMED WITH THE PLUNGER DEPRESSED.

CYCLE TEST:

SWITCH MUST PASS WATERPROOF TEST AND CONTINUITY TEST BEFORE AND AFTER 50,000 CYCLES OF DISCHARGING A ONE (1) MICROFARAD CAPACITOR CHARGED 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 PLATE .0001 - .0003 THICK.
 SWITCH BODY & PLUNGER ARE UV STABLE, ACETAL COPOLYMER WITH 12% GLASS FILL



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	APPROVED ikirbawy	MATERIAL N/A		DATE 22-Jun-2015
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				REVISION 1