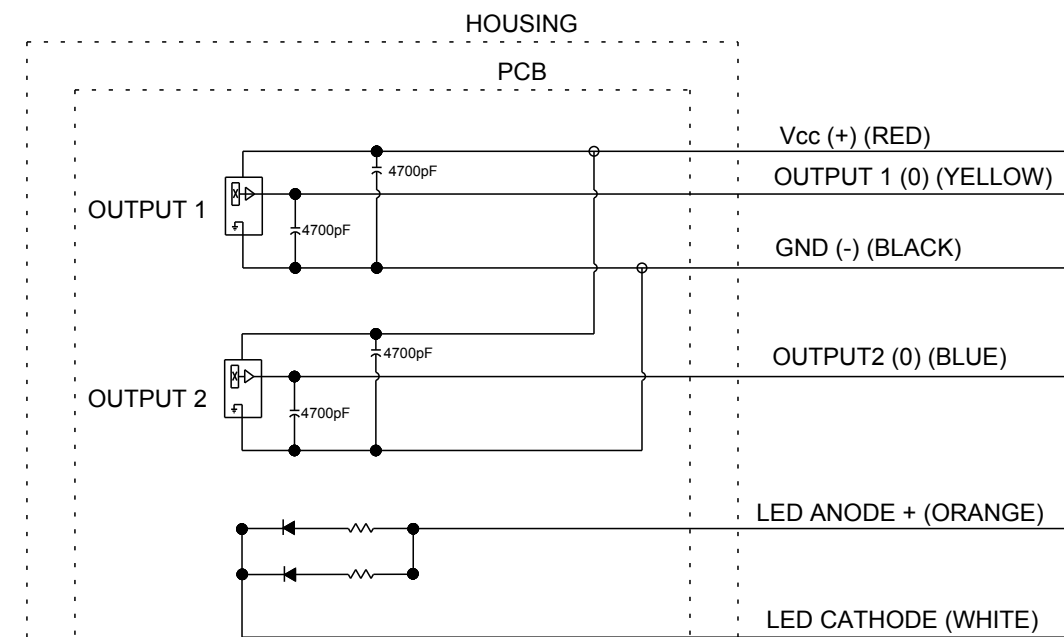


NOTES:

1. DRAWING TO BE INTERPRETED IN ACCORDANCE WITH THE CURRENT REVISION OF ASME Y14.5.
2. THIS PART/PRODUCT IS TO BE MANUFACTURED WITH THE LATEST APPLICABLE REGULATIONS OF EC DIRECTIVES FOR THE RESTRICTION OF THE USE OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS), WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) AND REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS (REACH).
3. MARKING TO INCLUDE:
"OTTO" P/N & DATE CODE "YYWW"
4. OUTPUTS ARE WHEN SWITCH IS IN DETENTED POSITION.
5. FOR SINGLE OUTPUT SWITCHES, WIRING OPTION 1 SHOULD BE SELECTED.
6. ONLY BUTTON COLOR BLACK IS AVAILABLE ON BACKLIT VERSIONS.
7. ONLY LEGEND COLOR WHITE IS AVAILABLE ON BACKLIT VERSIONS.

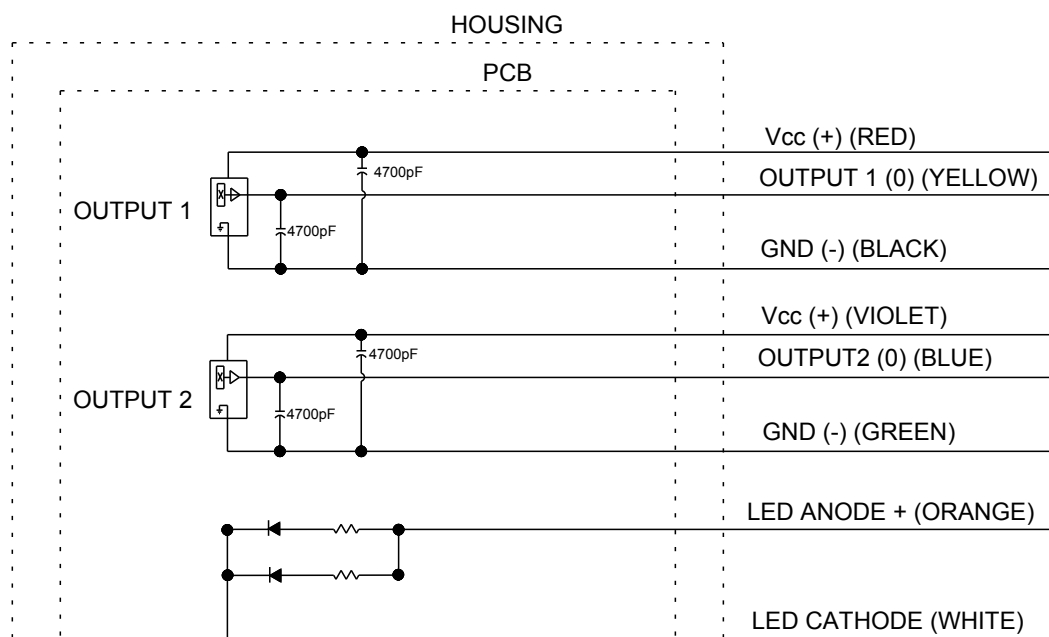
SWITCH CHARACTERISTICS				
ELECTRICAL				
RATED AT V _{cc} = 5V @ 25° C LOAD = 1ma (4.7K Ω)	UNITS	MIN	TYP	MAX
SUPPLY VOLTAGE	VDC	4.50	5.00	5.50
OUTPUT VOLTAGE, TOLERANCE AT CENTER	VDC AT 5V V _{cc}	-.35	NA	+.35
OUTPUT VOLTAGE, TOLERANCE AT FULL TRAVEL	VDC AT 5V V _{cc}	-.35	NA	+.35
SUPPLY CURRENT PER SENSOR B=0, V _{cc} =5V, I _{out} =0	mA	NA	NA	10
MECHANICAL				
MECHANICAL LIFE FULL FORWARD TO FULL BACK	3,000,000			
ANGLE OF THROW BETWEEN ADJACENT POSITIONS	°	8	10	12
MAXIMUM ALLOWABLE RADIAL LOAD	LBS	NA	NA	30
ENVIRONMENTAL				
OPERATING TEMPERATURE	° C	-40	20	85
HUMIDITY	96% RH, 70° C, 96 HRS			
VIBRATION	PER MIL-810F MINIMUM INTEGRITY			
ELECTRONICS SEAL INTEGRITY	WATERTIGHT PER IP68S, 1 METER			
MECHANICAL SEAL INTEGRITY	UNSEALED			
EMI/RFI WITHSTAND	PER SAE J1113 CONTACT FACTORY FOR DETAILS			
MATERIAL				
BUTTON TOP	THERMOPLASTIC			
BEZEL	THERMOPLASTIC			

WIRING OPTION 1
COMMON POWER AND GROUND



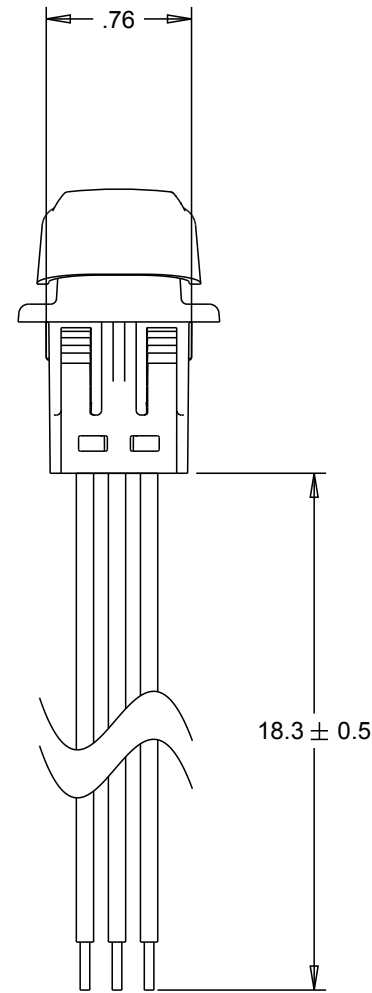
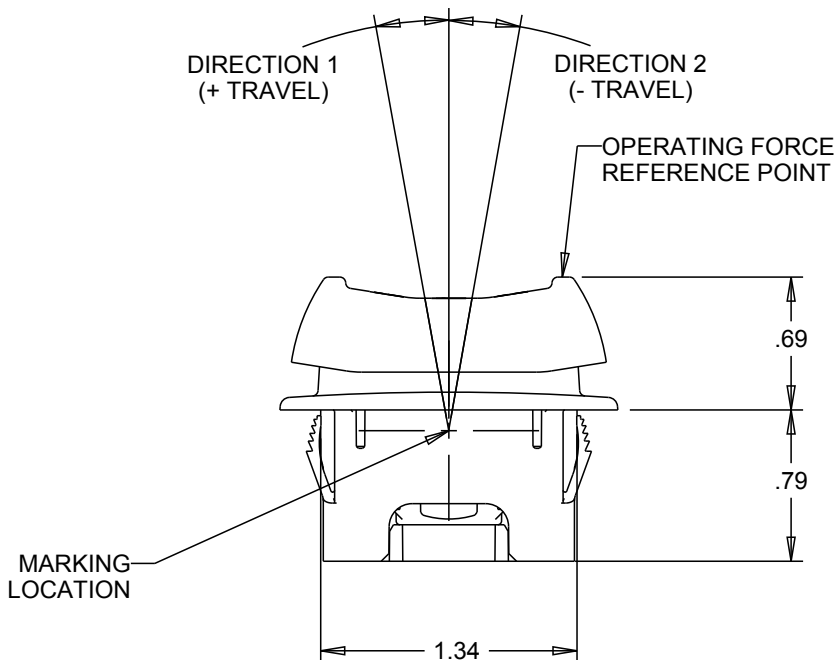
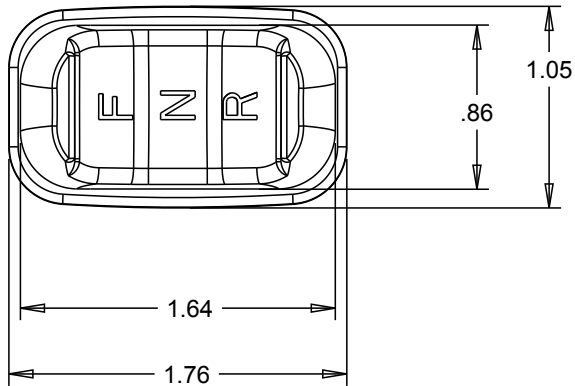
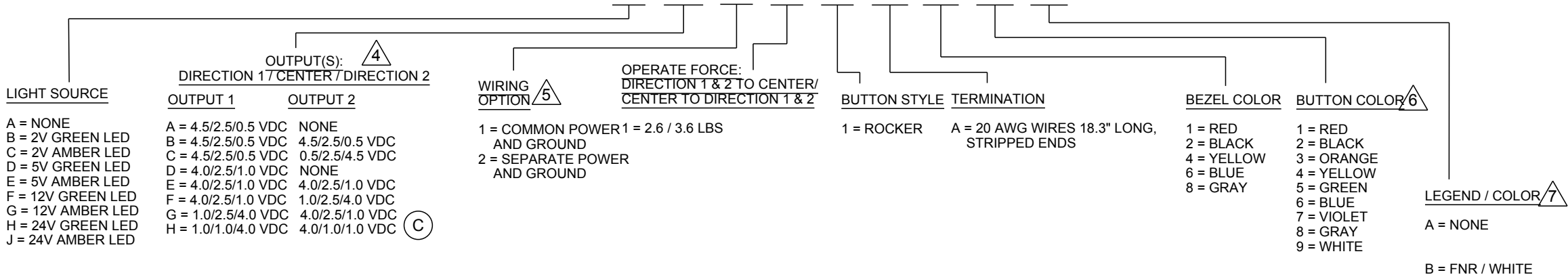
OUTPUT 2 AND LED ARE NOT PRESENT IN ALL CONFIGURATIONS

WIRING OPTION 2
SEPARATE POWER AND GROUND



OUTPUT 2 AND LED ARE NOT PRESENT IN ALL CONFIGURATIONS

HFNR-

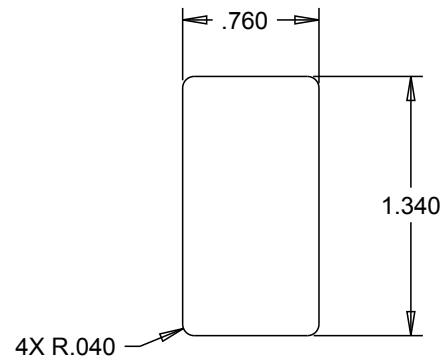


MOUNTING:

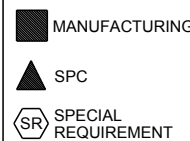
RECOMMENDED PANEL THICKNESS: 0.112 OPTIMUM THICKNESS (0.040 MIN. - 0.205 MAX.)

RECOMMENDED PANEL OPENING: 0.760 X 1.340 OPTIMUM (0.760/.770 X 1.335/1.345)

RECOMMENDED PANEL RADII: 0.040 OPTIMUM (0.070 MAX.)



LEGEND OPTION B SHOWN



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
TOLERANCES:
.XX ±.03
.XXX ±.010
ANGLES ±2°
DO NOT SCALE

OTTO
CARPENTERSVILLE, ILLINOIS USA

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DESCRIPTION
HFNR, HALL EFFECT, 3 POSITION ANALOG
OUTPUT ROCKER WITH BACKLIGHTING OPTION

DRWN. DCF	SIZE	FSCM NO	DRAWING NO.	REV.
CHKD. DCF	C	21649	HFNR-	C
APPD. AH				

THIRD ANGLE PROJECTION
Scale 1:1
Sheet 1 OF 1