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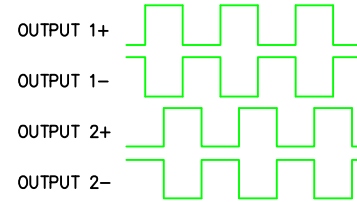
DWG NO. HD-145 SH 1 REV -

REVISIONS

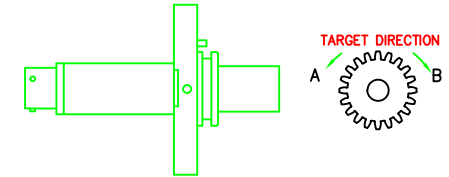
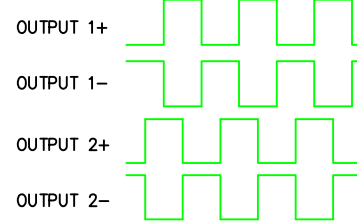
| ZONE | REV | DESCRIPTION | DATE | APP |
|------|-----|-------------|------|-----|
|      |     |             |      |     |

- SUPPLY VOLTAGE: 6V TO 30V DC REGULATED
- SUPPLY CURRENT: 20mA MAX @ NO LOAD
- OUTPUT TYPE: PUSH/PULL, DIFFERENTIAL, SUPPLY TRACKING
- OUTPUT SATURATION VOLTAGE HIGH: 0.6V MAX @ 30mA
- OUTPUT SATURATION VOLTAGE LOW: 0.4V MAX @ -30mA
- PROTECTION: REVERSE POLARITY AND OUTPUT SHORT CIRCUIT
- OPERATING FREQUENCY: 0Hz TO 15kHz
- AIR GAP: 0.100" (SEE NOTE 1)
- DUTY CYCLE: 50% ± 25% DEPENDENT ON TARGET GEOMETRY
- PHASE SHIFT: 90° ± 45° DEPENDENT ON TARGET GEOMETRY (SEE ALIGNMENT)
- ALIGNMENT: 12P (2M) SPUR GEAR CONTACT FACTORY FOR CUSTOM ALIGNMENT
- OPERATING TEMPERATURE: -40°C TO 125°C
- STORAGE TEMPERATURE: -40°C TO 125°C
- MATING CONNECTOR: MIL-DTL-26482 TYPE 10-6SN
- ENVIRONMENT RATING: IP68

DIRECTION A



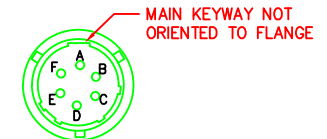
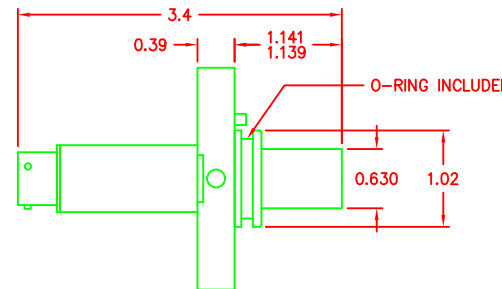
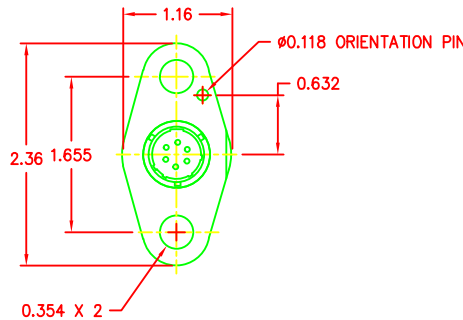
DIRECTION B



| GEAR DIRECTION | OUTPUT 1 | OUTPUT 2 |
|----------------|----------|----------|
| DIRECTION A    | LEAD     | LAG      |
| DIRECTION B    | LAG      | LEAD     |

NOTES:

1. AIR GAP IS DEPENDENT ON TARGET GEOMETRY AND OPERATING FREQUENCY. HIGHER OPERATING FREQUENCIES AND FINER PITCH GEARS MAY REQUIRE AIR GAPS LESS THAN 0.100"



| PIN DESCRIPTION        | PIN |
|------------------------|-----|
| POWER INPUT            | A   |
| POWER AND PULSE COMMON | B   |
| OUTPUT PULSE 1+        | C   |
| OUTPUT PULSE 2+        | D   |
| OUTPUT PULSE 1-        | E   |
| OUTPUT PULSE 2-        | F   |

786 PITTS CHAPEL ROAD  
ELIZABETH CITY, NC 27909

| MATERIAL   | APPROVALS           |               |
|--|---------------------|---------------|
| 300 SERIES STAINLESS   | DRAWN W. STAMBAUGH  | DATE 08/24/16 |
| FINISH   | CHECK M. PRITCHARD  | 08/24/16      |
|  | ISSUED M. PRITCHARD | 08/24/16      |
| CONFIDENTIAL PROPERTY OF MOTION SENSORS, INC. (MSI) NOT TO BE DISCLOSED TO OTHERS, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY MSI. MUST BE RETURNED ON DEMAND.  |                     |               |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES OTHER THAN THE SIZE OF RAW MATERIAL SHALL BE HELD AS FOLLOWS:<br>1 PLACE DECIMAL ±.1<br>2 PLACE DECIMAL ±.01<br>3 PLACE DECIMAL ±.005<br>FRACTIONAL ±1/64<br>ANGULAR ±1/2° |                     |               |

MOTION SENSORS, INC.

TITLE  
OUTLINE-SPECIFICATION DRAWING  
DUAL HALL EFFECT, PUSH/PULL TYPE  
DIFFERENTIAL SUPPLY TRACKING OUTPUT, FLANGED HOUSING WITH CONNECTOR

|            |                 |               |       |
|------------|-----------------|---------------|-------|
| SIZE C     | CAGE CODE OY2U4 | DWG NO HD-145 | REV - |
| SCALE NONE | SHEET           |               |       |

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