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DWG NO. HD-118 SH 1 REV -

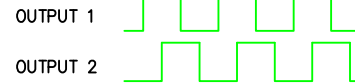
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APP

- SUPPLY VOLTAGE: 4.5V TO 30V DC REGULATED
- SUPPLY CURRENT: 10mA MAX @ NO LOAD, BOTH OUTPUTS HIGH
- OUTPUT TYPE: SUPPLY TRACKING, OPEN COLLECTOR
- OUTPUT LOGIC LOW (V<sub>ol</sub>): 0.6V MAX @ 25mA
- OUTPUT LOGIC HIGH (V<sub>oh</sub>): (V<sub>s</sub> - 0.2V) X (R<sub>L</sub> / (2.2K + R<sub>L</sub>)) TYPICAL
- 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

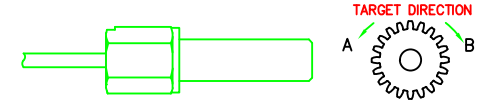
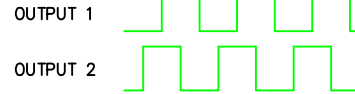
NOTES:

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"

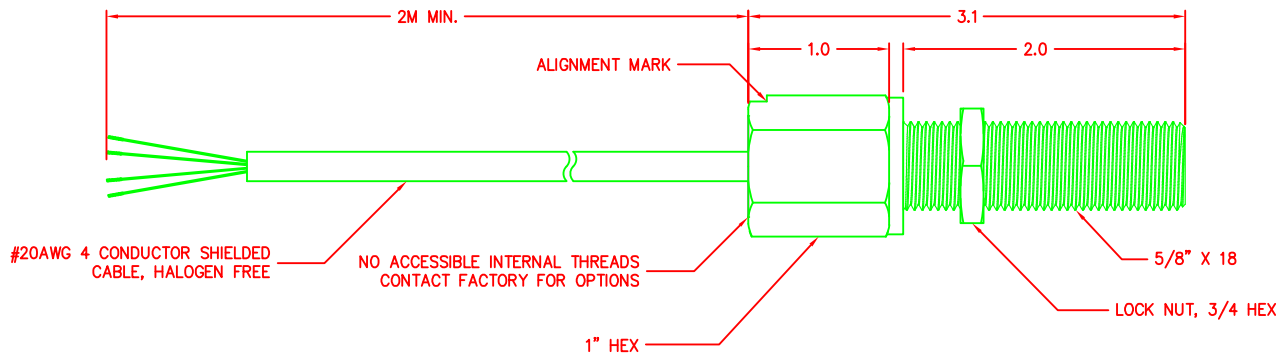
DIRECTION A



DIRECTION B



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



WIRE DESCRIPTION	WIRE COLOR
POWER INPUT	ORANGE
POWER AND PULSE COMMON	GREEN
OUTPUT PULSE 1	BLUE
OUTPUT PULSE 2	WHITE
SHIELD	SHIELD

**MOTION SENSORS**  
SPEED SENSING SOLUTIONS

786 PITTS CHAPEL ROAD  
ELIZABETH CITY, NC 27909

MATERIAL	APPROVALS	
300 SERIES STAINLESS	DRAWN W. STAMBAUGH	DATE 08/19/16
FINISH	CHECK M. BERGMAN	DATE 08/22/16
	ISSUED M. BERGMAN	DATE 08/22/16
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: 1 PLACE DECIMAL ±.1 2 PLACE DECIMAL ±.01 3 PLACE DECIMAL ±.005 FRACTIONAL ±1/64 ANGULAR ±1/2°		

**MOTION SENSORS, INC.**

TITLE  
**OUTLINE-SPECIFICATION DRAWING  
 DUAL HALL EFFECT, OPEN COLLECTOR TYPE  
 SUPPLY TRACKING OUTPUT, 5/8" X 18 THREADED  
 HOUSING WITH CABLE**

SIZE C	CAGE CODE OY2U4	DWG NO HD-118	REV -
SCALE NONE	SHEET		

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