



1GP4004

3 4 5 6 1

## ABSOLUTE MAXIMUM RATINGS

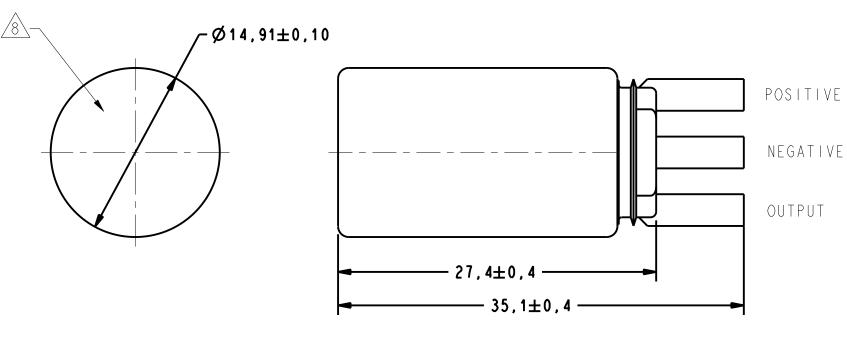
SUPPLY VOLTAGE	+32V CONTINUOUS
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30V (OUTPUT HIGH)
OUTPUT CURRENT	40 mA SINKING
TEMP	150°C

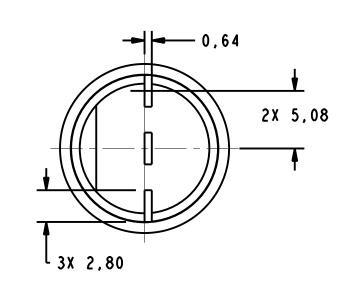
## RECOMMENDED OPERATING CONDITIONS

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PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
OPERATING TEMPERATURE		- 40		+150	°C
SUPPLY VOLTAGE		4.5		24	VDC
SUPPLY CURRENT			10	20	mΑ
OUTPUT VOLTAGE	LOW OUTPUT			0.4	VDC
OUTPUT CURRENT	LOW OUTPUT			20	mΑ
OUTPUT LEAKAGE CURRENT	HIGH OUTPUT			10	иA
RISE TIME	10% TO 90%			2.0	иS
FALL TIME	90% TO 10%			1.0	иS

## OPERATING SPECIFICATIONS

	LIMIT	CONDITIONS	UNITS
4 OPERATE 5 RELEASE	2.75°±1.5° 3.0°±2.50°	AIR GAP 0,13 - 2,03 V SUPPLY 4.5-24 TEMP -40 TO 150 RPM 15 TO 3600	mm VOLTS DEG





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TARGET SHOULD BE MADE OF C-1018 STEEL OR ENGINEERING APPROVED

EQUIVALENT, ANNEAL AFTER MACHINING OR FORMING

MAX LIMITS THAT SWITCH WILL WITHSTAND WITHOUT DAMAGE OPERATING SPECIFICATION IS BASED ON TARGET SHOWN IN FIGURE 1 AND WILL VARY WITH TARGET GEOMETRY

OPERATE (DEGREES) IS THE ANGULAR DISTANCE FROM THE LEADING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR

RELEASE (DEGREES) IS THE ANGULAR DISTANCE FROM THE TRAILING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR

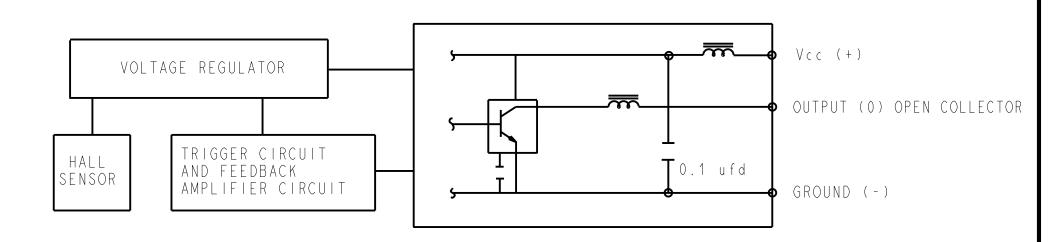
ELECTRICAL CHARACTERISTICS ARE GUARANTEED WITH MAX EXTERNAL LOAD CAPACITANCE < 550 pfd

AIR GAP IS THE DISTANCE FROM SENSOR FACE TO TARGET CATALOG LISTING, DATE CODE AND SERIAL NUMBER LOCATED IN THIS AREA

9 - RELIABILITY AND EMI PERFORMANCE IS BASED ON TS 060 234

10 - WITHOUT A OUTPUT CAPACITOR THERE IS A RIPPLE ON THE OUTPUT SIGNAL WITH A HIGH TO LOW TRANSITION WHICH CAN PRODUCE A FALSE TRIGGER WITH SOME APPLICATIONS, IT IS REQUIRED THAT A CAPACITOR BE ADDED TO THE OUTPUT LINE TO REDUCE THE IMPACT OF THIS RIPPLE

11 - FOR VALUE ADDED ASSEMBLY CONSIDERATIONS REFERENCE APPLICATION NOTE PK-80139



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT



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MICRO SWITCH a Honeywell Division

FED. MFG. CODE 91929

GEARTOOTH SENSOR

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CATALOG LISTING

THIRD ANGLE PROJECTION ⊕ —==-SCALE 3 : 1 DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE NO PLACE  $(0) \pm 1$  MM ONE PLACE (0,0)  $\pm$  0,4 MM TWO PLACE (0,00)  $\pm$  0,15 MM ANGLES

WEIGHT

ANSI Y14.5M-1982 APPLIES