

1GP5005

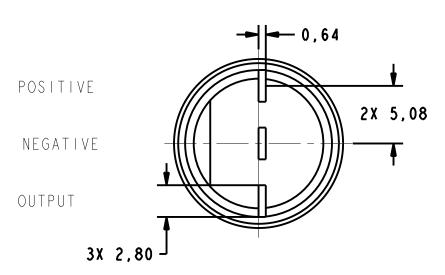
ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE	+30V CONTINUOUS
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30V (OUTPUT HIGH)
OUTPUT CURRENT	40 mA SINKING
MIN RPM	3.5 RPM
TEMP	150°C

RECOMMENDED OPERATING CONDITIONS

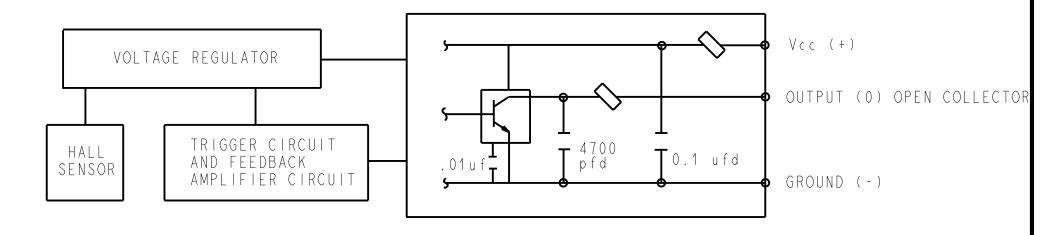
CONDITIONS	MIN	TYP	MAX	UNITS
	- 40		+150	°C
	4.5		24	VDC
		10	20	mΑ
LOW OUTPUT			. 6	VDC
LOW OUTPUT			20	mΑ
HIGH OUTPUT			10	μА
10% TO 90%			15	иS
90% TO 10%			1.0	иS
	LOW OUTPUT LOW OUTPUT HIGH OUTPUT 10% TO 90%	-40 4.5 LOW OUTPUT LOW OUTPUT HIGH OUTPUT 10% TO 90%	-40 4.5 10 LOW OUTPUT LOW OUTPUT HIGH OUTPUT 10% TO 90%	-40 +150 4.5 24 10 20 LOW OUTPUT .6 LOW OUTPUT 20 HIGH OUTPUT 10 10% TO 90% 15

80			



OPERATING	SPECIFICATIONS	3	4	<u>/</u> 5\	6	/7\
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	LIMIT	CONDITIONS	UNITS
OPERATING RELEASE	2.25 +/-1.25 2.25 +/-1.25	AIR GAP 1,0/2,0 TEMPERATURE 25°C RPM = 1000	° C
PULSEWIDTH	45.8 - 57.6	Vsupply = 14 V	VOLTS %



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT



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DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE NO PLACE $(0) \pm 1$ MM

THIRD ANGLE PROJECTION

→ -==-

ONE PLACE (0,0) \pm 0,4 MM TWO PLACE (0,00) \pm 0,15 MM ANGLES

MICRO SWITCH FED. MFG. CODE 91929

GEARTOOTH SENSOR

1GP5005

1GP5005

4

A CO 95587
GRT 2 FEB 00
B 200453
GRT 24 MAY 00

NOTES

4X CLEARANCE FOR #8-ALLEN HEAD CAP SCREW

 \emptyset 101,60 \sim

Ø4,763 PRESS FIT FOR

 \emptyset 14,91 \pm 0,10

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

OPERATING SPECIFICATION IS BASED ON TARGET SHOWN IN FIGURE 1

ELECTRICAL CHARACTERISTICS ARE GUARANTEED WITH MAX EXTERNAL

OPERATE (DEGREES) IS THE ANGULAR DISTANCE FROM THE LEADING EDGE

RELEASE (DEGREES) IS THE ANGULAR DISTANCE FROM THE TRAILING EDGE

CATALOG LISTING, DATE CODE AND SERIAL NUMBER LOCATED IN THIS AREA

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

EQUIVALENT, ANNEAL AFTER MACHINING OR FORMING

OF THE TOOTH TO THE CENTERLINE OF THE SENSOR

OF THE TOOTH TO THE CENTERLINE OF THE SENSOR

AIR GAP IS THE DISTANCE FROM SENSOR FACE TO TARGET

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

AND WILL VARY WITH TARGET GEOMETRY

LOAD CAPACITANCE < 550 pfd

MAX LIMITS THAT SWITCH WILL WITHSTAND WITHOUT DAMAGE

3/16 INCH DOWEL PIN

 $-2X 20,19\pm0,05$

└─ 14,288±0,013

 $2X 10,096\pm0,025$

ROTATION

TARGET

WHEEL / 1

20X 10°

·27,4±0,4

- 35,1±0,4-

SCALE 1:1

4X 4,19

ASME Y14.5M-1994 APPLIES a Honeywell Division

SHARP EDGES ON ALL TEETH

 $\emptyset 87,63$

 \emptyset 16,00

 $-4X \emptyset 7,26$

4X Ø 4,60

CATALOG LISTING

WEIGHT

SCALE 3:8:1

Mouser Electronics

Authorized Distributor

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