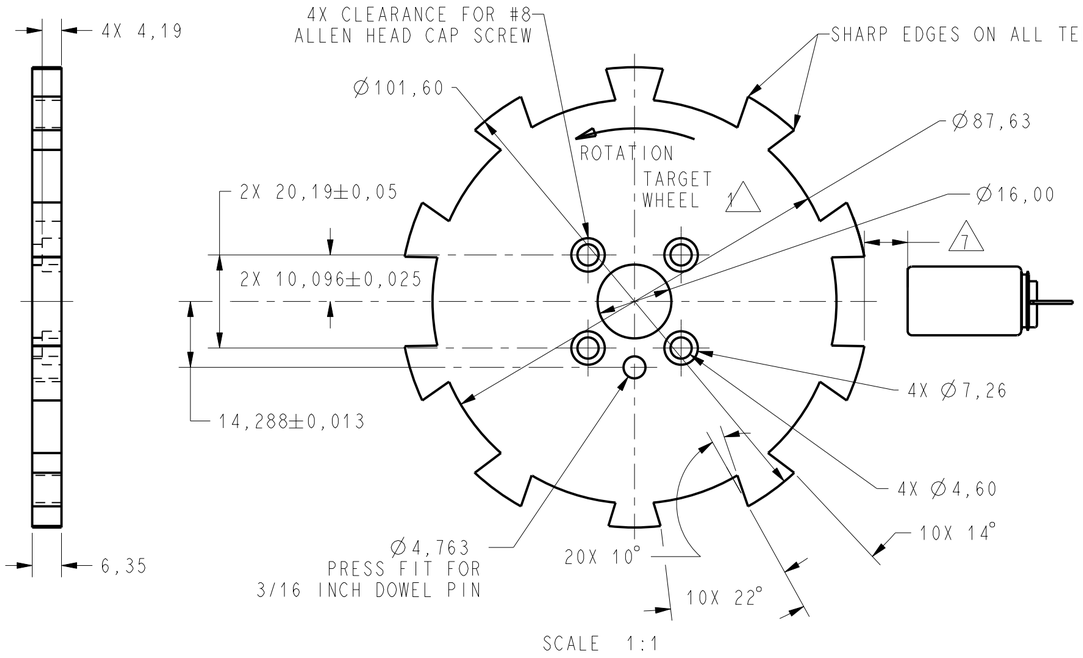
1GP4004



SCALE 1:1

ABSOLUTE MAXIMUM RATINGS △2

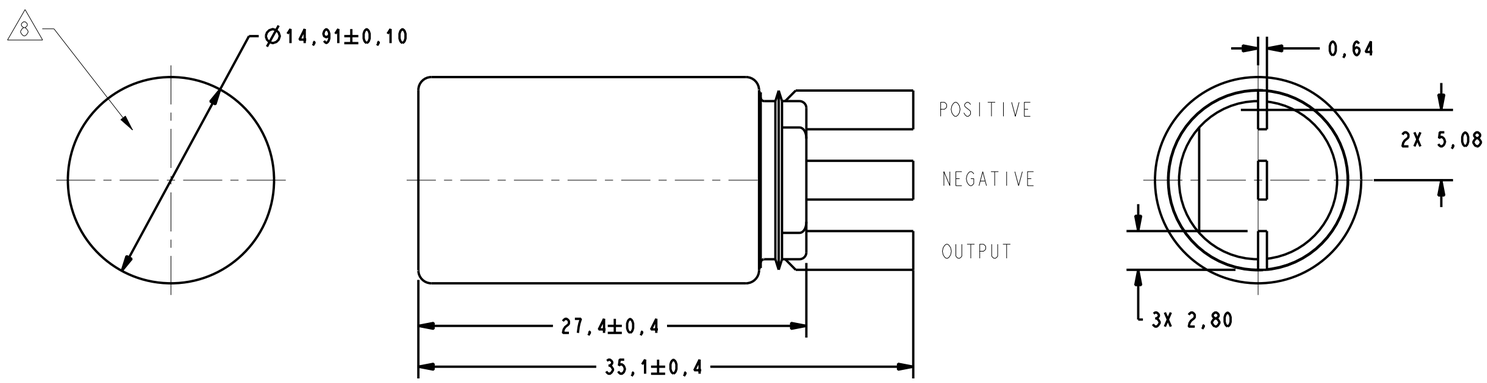
SUPPLY VOLTAGE	+32V CONTINUOUS
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30V (OUTPUT HIGH)
OUTPUT CURRENT	40 mA SINKING
TEMP	150°C

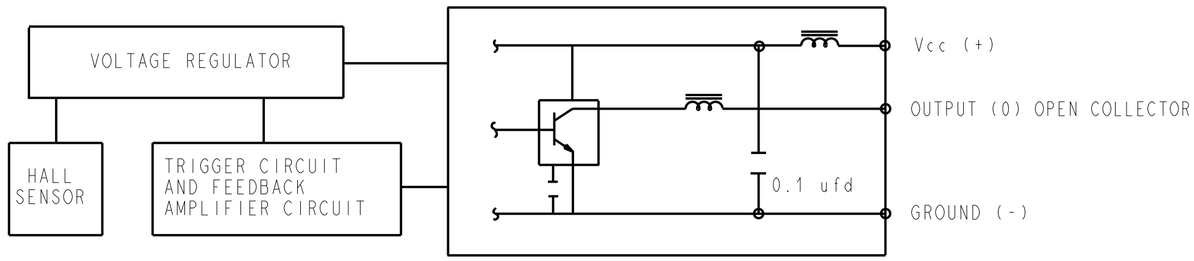
RECOMMENDED OPERATING CONDITIONS

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

OPERATING SPECIFICATIONS △3 △4 △5 △6 △7

	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





BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT

NOTES

△1 TARGET SHOULD BE MADE OF C-1018 STEEL OR ENGINEERING APPROVED EQUIVALENT, ANNEAL AFTER MACHINING OR FORMING
△2 MAX LIMITS THAT SWITCH WILL WITHSTAND WITHOUT DAMAGE
△3 OPERATING SPECIFICATION IS BASED ON TARGET SHOWN IN FIGURE 1 AND WILL VARY WITH TARGET GEOMETRY
△4 OPERATE (DEGREES) IS THE ANGULAR DISTANCE FROM THE LEADING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR
△5 RELEASE (DEGREES) IS THE ANGULAR DISTANCE FROM THE TRAILING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR
△6 ELECTRICAL CHARACTERISTICS ARE GUARANTEED WITH MAX EXTERNAL LOAD CAPACITANCE < 550 pfd
△7 AIR GAP IS THE DISTANCE FROM SENSOR FACE TO TARGET
△8 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

CAUTION ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION
ESD SENSITIVITY: CLASS 3

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MICRO SWITCH a Honeywell Division
FED. MFG. CODE 91929

GEARTOOTH SENSOR

CATALOG LISTING
1GP4004

THIRD ANGLE PROJECTION
SCALE 3 : 1
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE
NO PLACE (0) ± 1 MM
ONE PLACE (0,0) ± 0,4 MM
TWO PLACE (0,00) ± 0,15 MM
ANGLES ±
WEIGHT

ANSI Y14.5M-1982 APPLIES

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DRAWING NUMBER | ISSUE 5

REVISIONS					
			CHECK		
A	PR-REL PR23436 J A F 15 JUN 99				
B	CO 95587 G R T 2 FEB 00				
C	200453 G R T 24 MAY 00		AK	12 MAY 04	
D	0005266 AS 12 MAY 04		CHECK		
			CHECK	J A F	15 JUN 99
			CHECK	J A F	15 JUN 99

PTC/CAD 3D | DRAWN J A F 15 JUN 99