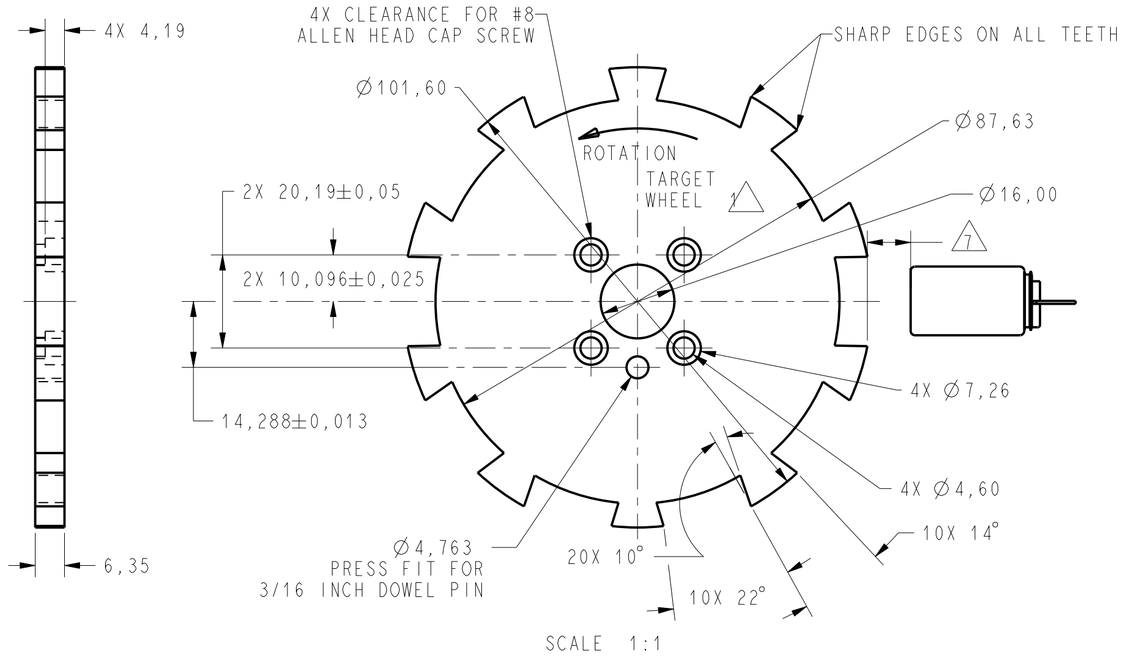
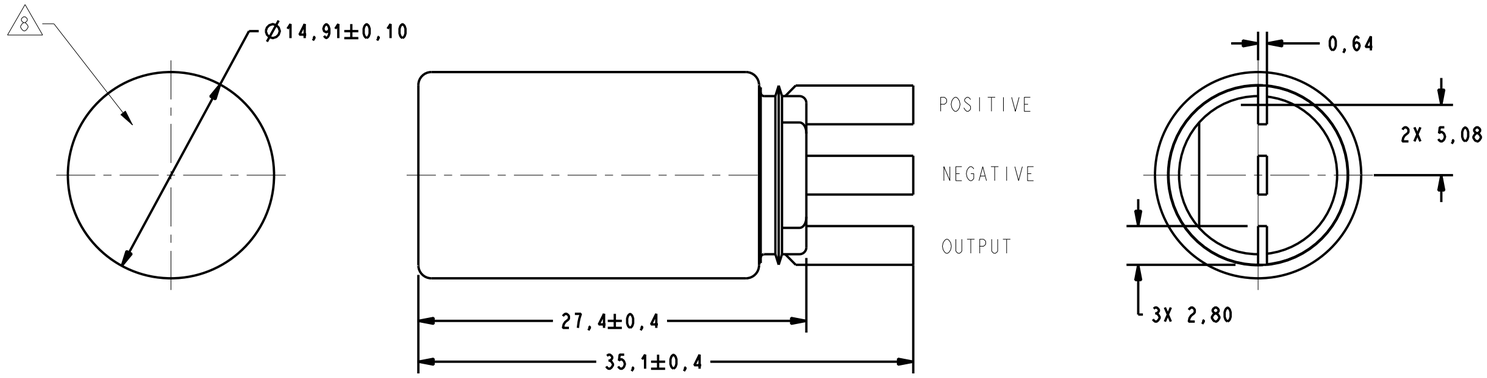


SCALE 1:1



1GP4004

ABSOLUTE MAXIMUM RATINGS 2

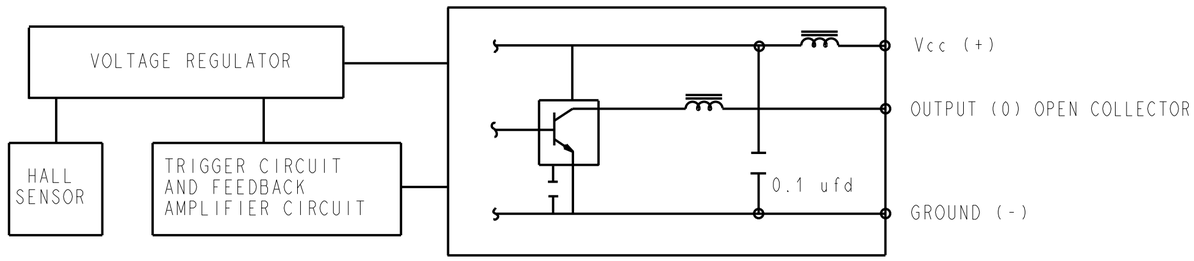
SUPPLY VOLTAGE	+32V CONTINUOUS
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30V (OUTPUT HIGH)
OUTPUT CURRENT	40 mA SINKING
TEMP	150°C

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

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

1GP4004 | PAGE 1 OF 1 | RELEASE NO. PR-23436 | REPLACES -

ISSUE	DRAWING NUMBER	DRAWN	CHECK	CHECK	CHECK
5		J A F 15 JUN 99	J A F 15 JUN 99	AK 12 MAY 04	AS 12 MAY 04

PTC/CAD 3D

REVISIONS

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
D	0005266	AS	12 MAY 04