

ABSOLUTE MAXIMUM RATINGS

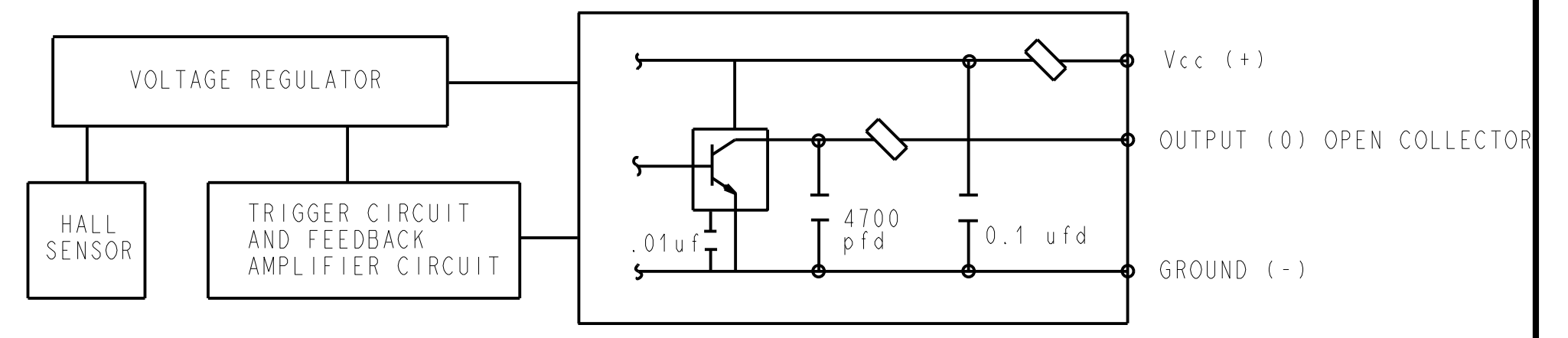
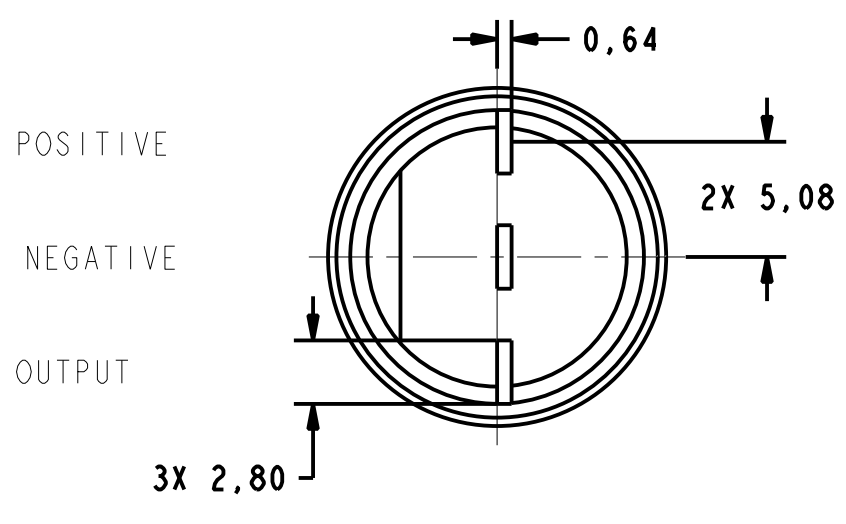
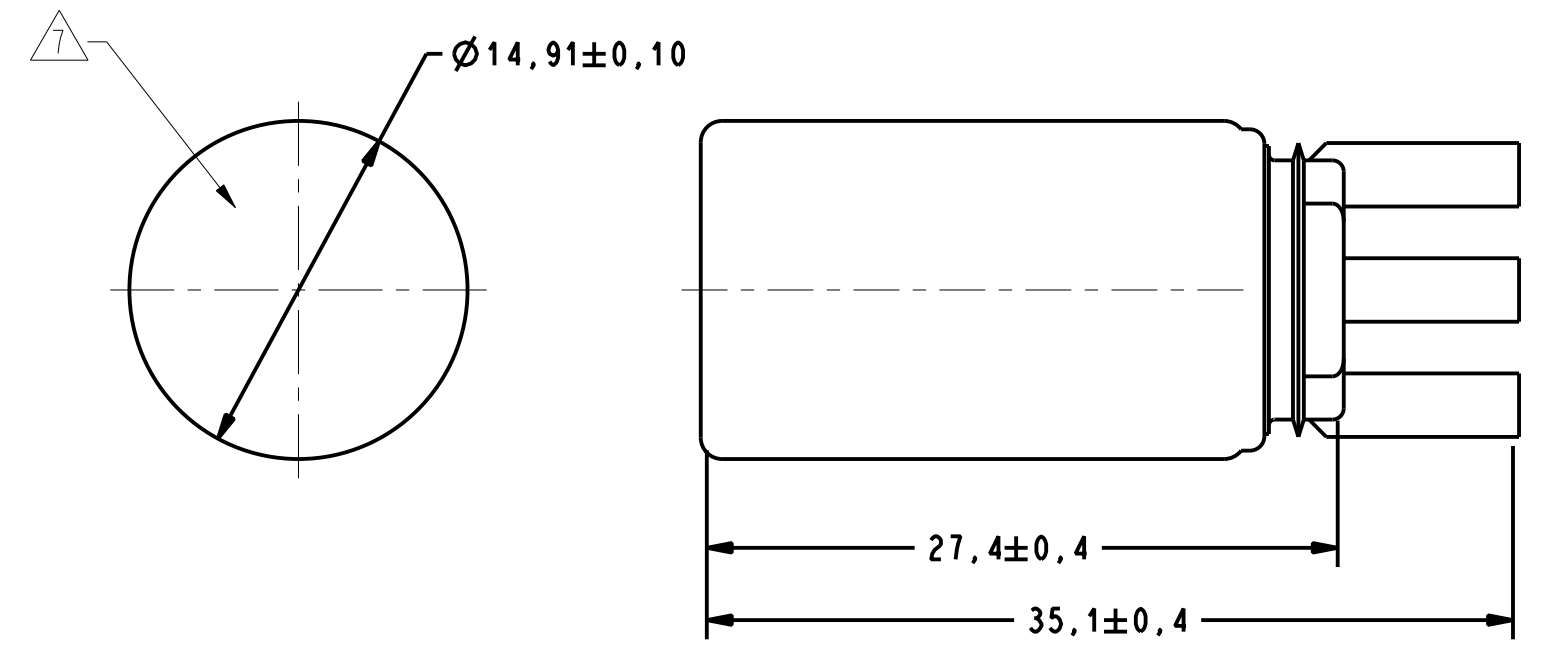
SUPPLY VOLTAGE	+30V CONTINUOUS
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30V (OUTPUT HIGH)
OUTPUT CURRENT	40 mA SINKING
MIN RPM	3.5 RPM
TEMP	150°C

RECOMMENDED OPERATING CONDITIONS

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			.6	VDC
OUTPUT CURRENT	LOW OUTPUT			20	mA
OUTPUT LEAKAGE CURRENT	HIGH OUTPUT			10	µA
RISE TIME	10% TO 90%			15	µS
FALL TIME	90% TO 10%			1.0	µS

OPERATING SPECIFICATIONS

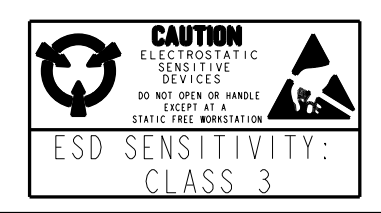
	LIMIT	CONDITIONS	UNITS
OPERATING RELEASE	2.25 +/- 1.25	AIR GAP 1.0/2.0	mm
	2.25 +/- 1.25	TEMPERATURE 25°C	°C
		RPM = 1000	
		Vsupply = 14 V	VOLTS
PULSEWIDTH	45.8 - 57.6		%



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



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MICRO SWITCH a Honeywell Division	GEARTOOTH SENSOR	CATALOG LISTING 1GP5005
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THIRD ANGLE PROJECTION
SCALE 3:8:1
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

1GP5005
 PAGE 1 of 1
 DRAWING NUMBER
 ISSUE 4
 REVISIONS
 A CO 85587 2 FEB 00
 B 200453 24 MAY 00
 C 0005266 13 MAY 04
 CHECK PR-24208 RELEASE NO. X111551-GT
 CHECK 13MAY04
 CHECK 24AUG99
 CHECK JAF
 CHECK 24AUG99
 P.T.C./CAD 3D
 TRF 24AUG99