

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE	+30V CONTINUOUS
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30V (OUTPUT HIGH)
OUTPUT CURRENT	40 mA SINKING

RECOMMENDED OPERATING CONDITIONS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
OPERATING TEMPERATURE		- 40		+150	°C
SUPPLY VOLTAGE		4.5		24	VDC
SUPPLY CURRENT I _{cc}			10	20	mA
V _{sat}	LOW OUTPUT			.4	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
4 OPERATE	$3.3^{\circ} \pm 1.25^{\circ}$	AIR GAP 0.13-2.03	mm
5 RELEASE	$4.4^{\circ} \pm 2.5^{\circ}$	V _{SUPPLY} 4.5 - 24 TEMP -40 TO 150 RPM 10 TO 5000	VOLTS DEG. C

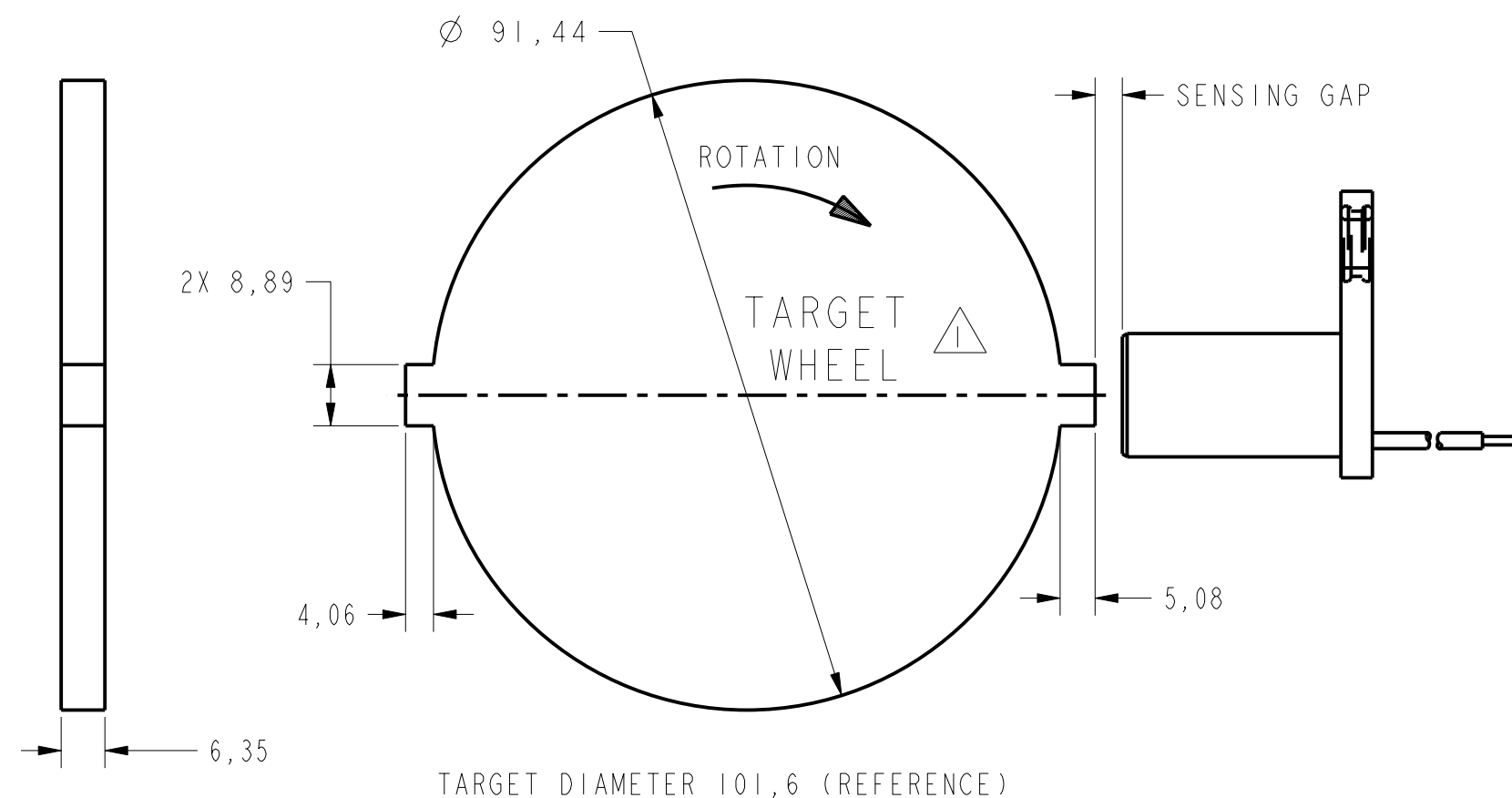
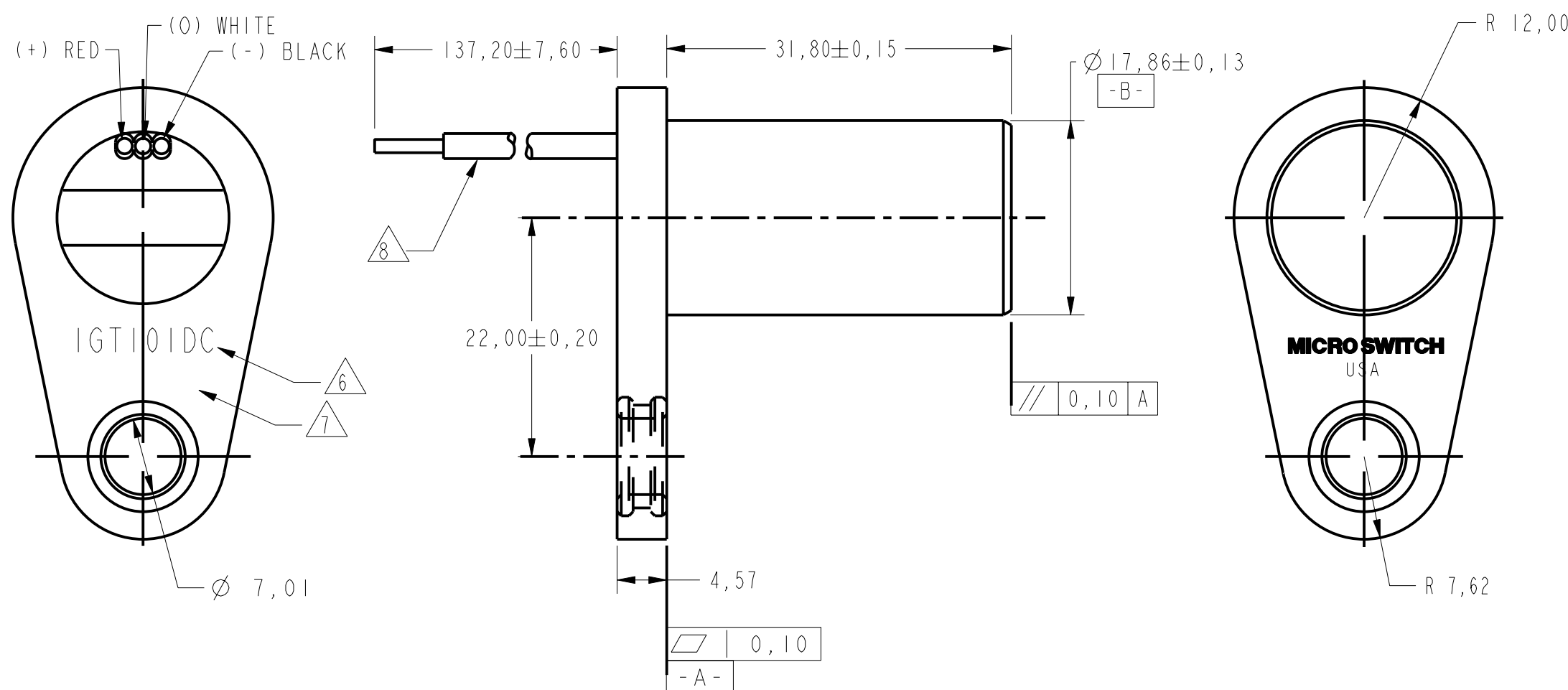
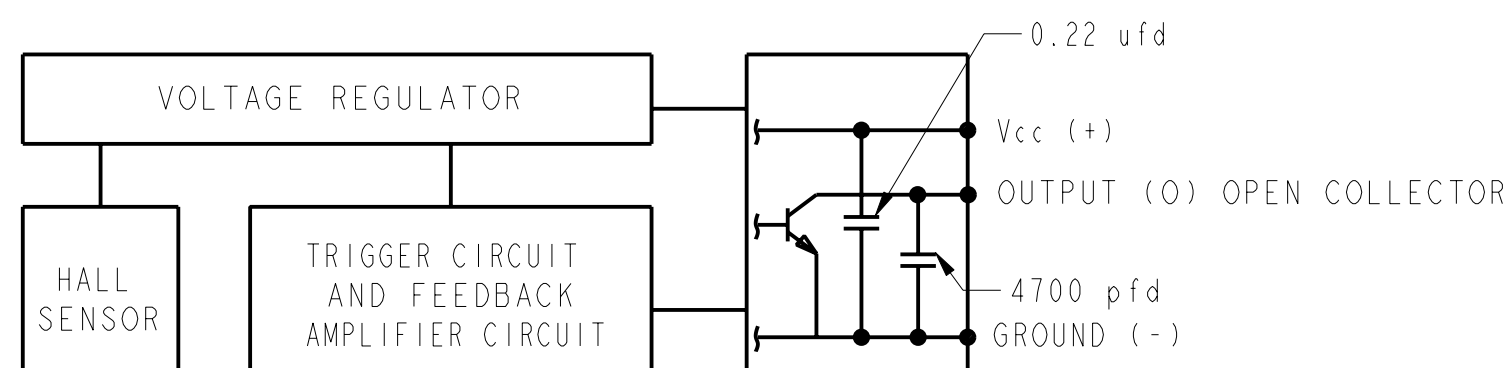


FIGURE 1

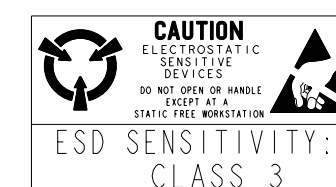


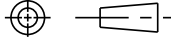
NOTES

- ① TARGET SHOULD BE MADE OF GOOD MAGNETIC MATERIAL (C-1018), ANNEAL AFTER MACHINING OR FORMING
- ② MAXIMUM 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 MICRO SWITCH PART # 1GT101DC THIS AREA
- ⑦ DATE CODE YYWW THIS AREA
- ⑧ 22 GAUGE WIRE, CROSSLINKED POLYETHYLENE INSULATION
- ⑨ ELECTRICAL CHARACTERISTICS GUARANTEED WITH MAX EXTERNAL LOAD CAPACITANCE ≤ 550 pfd
- ⑩ OPERATING TEMPERATURE APPLIES TO SENSOR ONLY, WIRE IS RATED TO 135°C



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT



THIRD ANGLE PROJECTION		
		
SCALE 2:1		
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(.0)	± .030
TWO PLACES	(.00)	± .015
THREE PLACES	(.000)	± .005
ANGLES		±
WEIGHT		

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GEARTOOTH SENSOR

CATALOG LISTING

1GT101DC

FED MFG CODE 91929

ANSI Y14.5M-1982 APPLIES