

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	μ A
RISE TIME	10% TO 90%			15	μ S
FALL TIME	90% TO 10%			1.0	μ S

OPERATING SPECIFICATIONS

	LIMIT	CONDITIONS	UNITS
4 OPERATE	$3.3^\circ \pm 1.25^\circ$	AIR GAP 0.13-2.03	mm
5 RELEASE	$4.4^\circ \pm 2.5^\circ$	VSUPPLY 4.5 - 24	VOLTS
		TEMP -40 TO 150	DEG. C
		RPM 10 TO 5000	

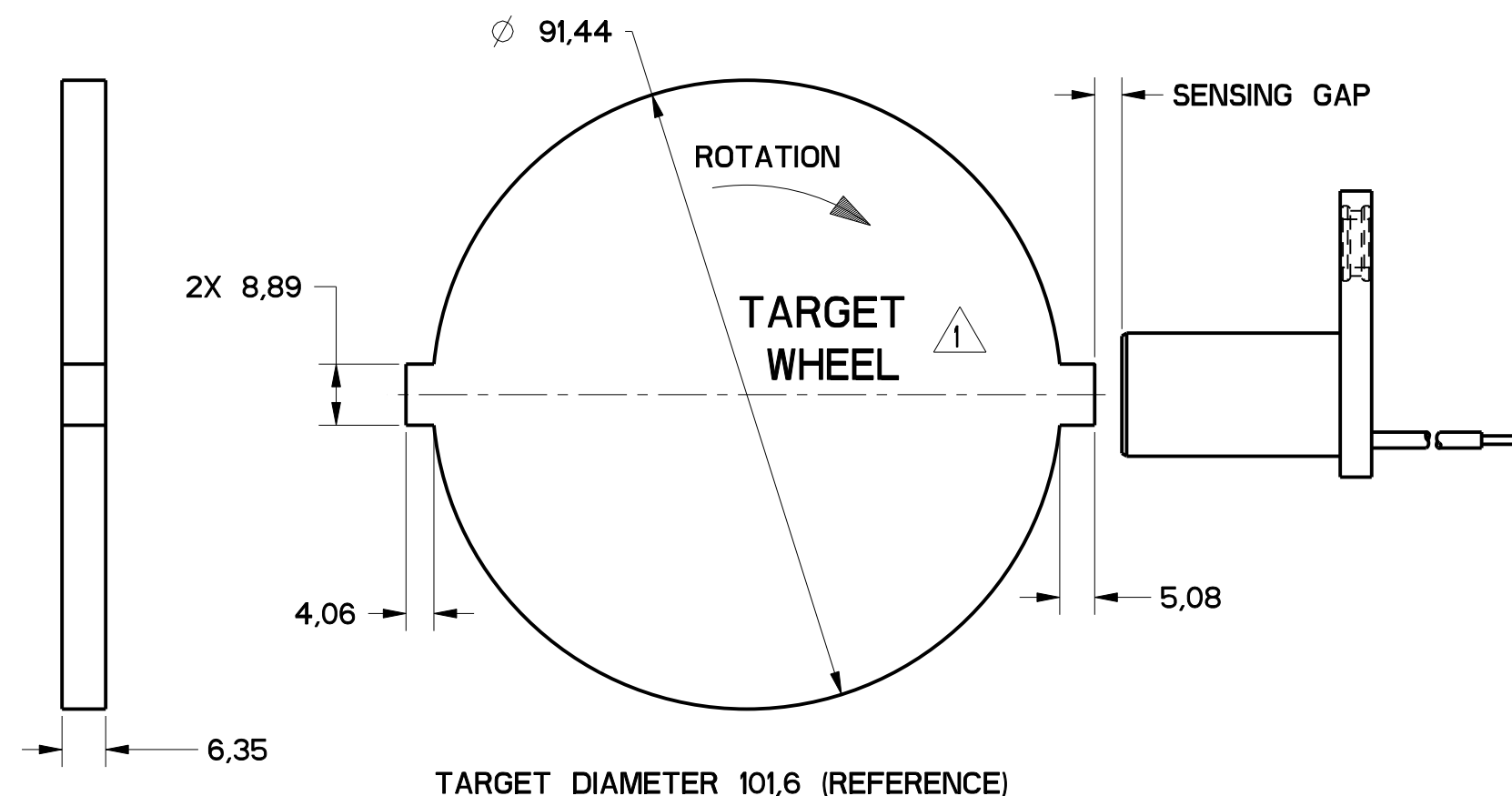
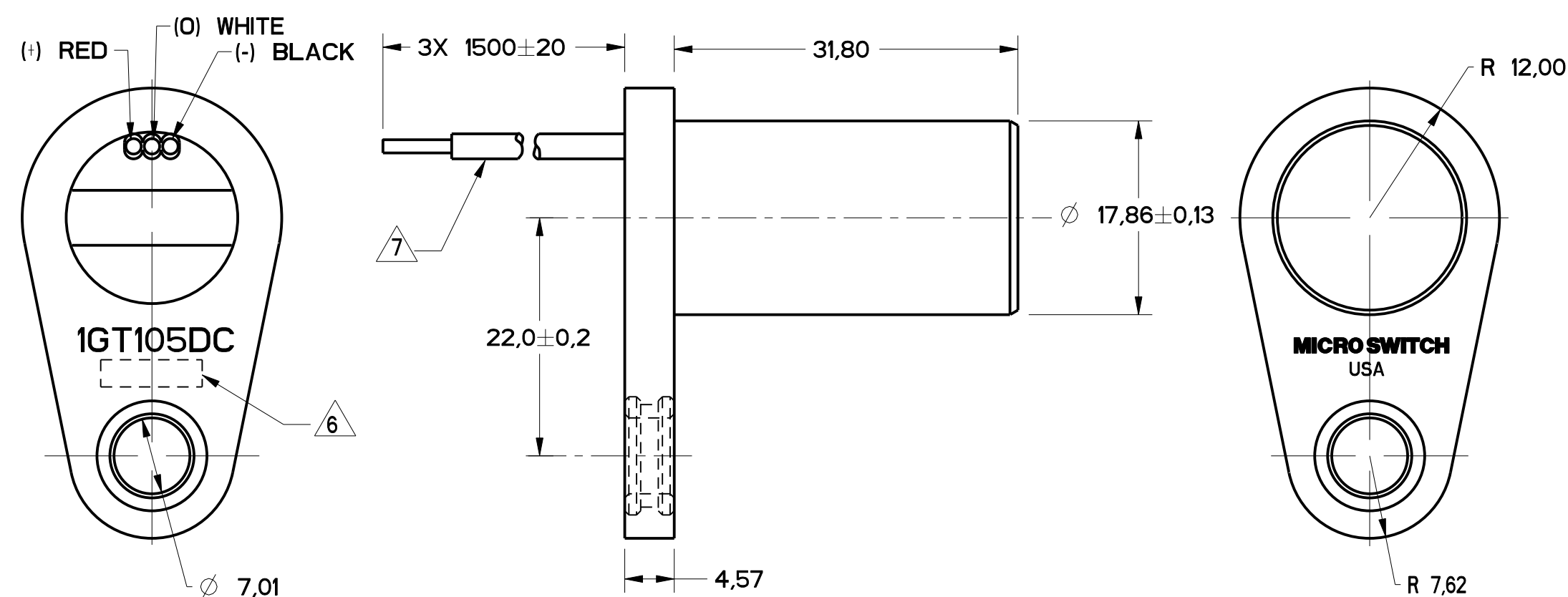
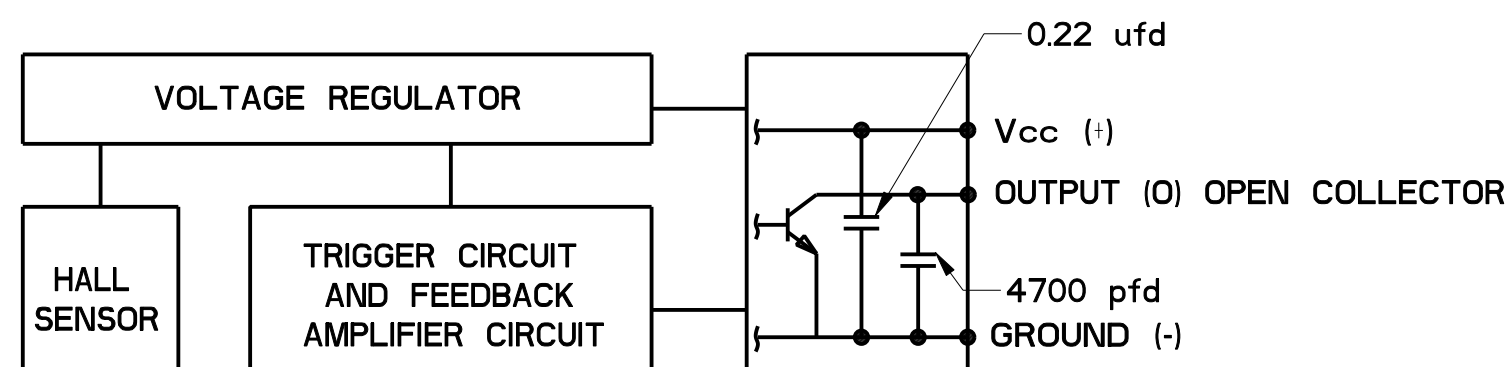


FIGURE 1



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 DATE CODE YYWW THIS AREA
- 7 22 GAUGE WIRE, CROSSLINKED POLYETHYLENE INSULATION
- 8 ELECTRICAL CHARACTERISTICS GUARANTEED WITH MAX EXTERNAL LOAD CAPACITANCE ≤ 550 pfd
- 9 OPERATING TEMPERATURE APPLIES TO SENSOR ONLY, WIRE IS RATED TO 135°C
- 10 RoHS COMPLIANT



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT



THIRD ANGLE PROJECTION

SCALE 2:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

NO PLACE (0) ± 1 MMONE PLACE (0.0) ± 0.4 MMTWO PLACE (0.00) ± 0.15 MMANGLES $\pm$

WEIGHT

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GEARTOOTH SENSOR

CATALOG LISTING

1GT105DC

FED. MFG. CODE 91929

ANSI Y14.5M-1982 APPLIES

1GT105DC

DRAWING NUMBER

ISSUE 3

REVISIONS

A 204349

REV 9 NOV 01

B 21332

REV 1 MAY 06

REV 1 MAY 06

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