

## GT1 Series Hall Effect Gear Tooth Sensor Target Guidelines

## Application Sheet

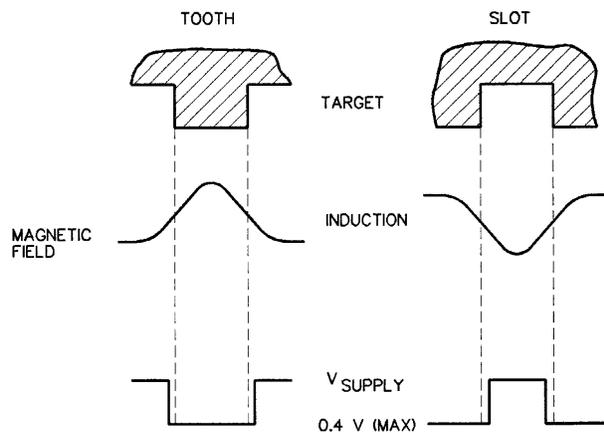
### TARGET GUIDELINES

The Target Guidelines table provides basic parameters when an application is not restricted to a specific target. Any target wheel that exceeds the following minimum specifications can be sensed over the entire temperature range of  $-40^{\circ}$  to  $150^{\circ}\text{C}$  with any sensing gap up to .080 in. (2,0 mm). This data is based on a 4 in. (102 mm) diameter wheel, rotating 10 to 3600 RPM.

### REFERENCE TARGET DIMENSIONS

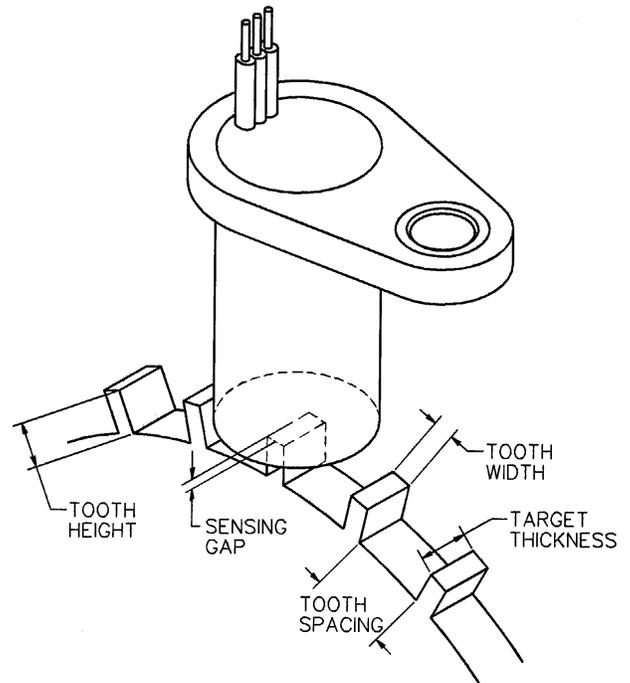
Tooth Height:	.200 in. (5,06 mm) min.
Tooth Width:	.100 in. (2,54 mm) min.
Tooth Spacing:	.400 in. (10,16 mm) min.
Target Thickness:	.250 in. (6,35 mm)

### SENSOR OUTPUT DIAGRAM (WITH PULL-UP RESISTOR ADDED TO OUTPUT CIRCUIT)



### REFERENCE TARGET/CONDITIONS

Characteristics will vary due to target size, geometry, location, and material. Sensor specifications were derived using a cold-rolled steel reference target. See table below for reference target configuration and evaluation conditions.



Target	
Diameter:	4 in. (101,6 mm)
Tooth Width:	.350 in. (8,89 mm)
Thickness:	.250 in. (6,35 mm)

Test Conditions	
Air Gap:	.040 to .080 in. (1,02 to 2,03 mm)
V Supply:	4.5 to 24 V
RPM:	10 min., 3600 max.

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## WARRANTY/REMEDY

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## INTERNET

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