

REV	DOCUMENT	CHANGED BY	CHECK
1	DR-5299-5	SAV	20DEC99
2	PR-24403	SAV	11FEB00

OPERATING SPECIFICATION

	LIMIT	
OPERATE	1.5° ± 2.0°	TARGET ENGAGEMENT .150 TO .300
RELEASE	3.0° ± 2.5°	RPM 0 TO 5000
		SLOT DEPTH .250 MIN

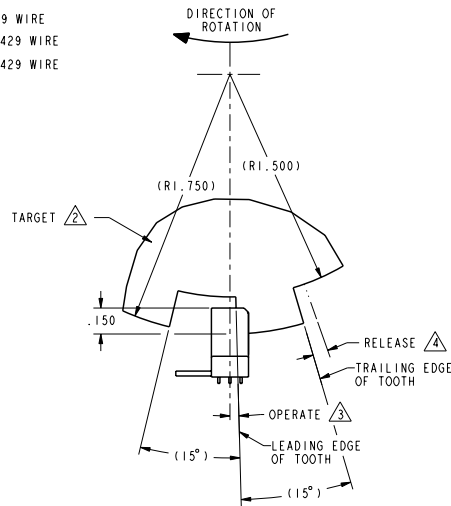
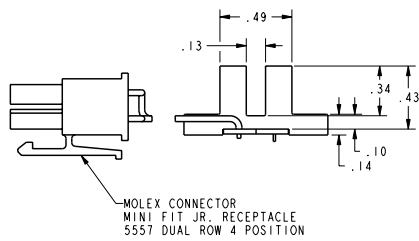
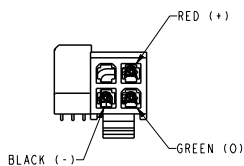
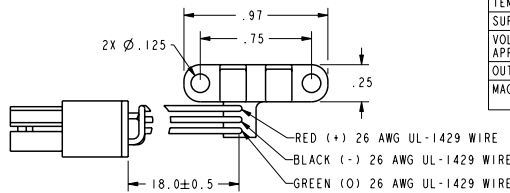
- NOTES**
- MOUNTING SPECIFICATION: NON-FERROUS #4 MACHINE HEAD SCREWS WITH .25 O.D. WASHERS TORQUED TO 3-5 INCH LBS
 - SUGGESTED TARGET CONFIGURATION. MATERIAL: .045 LOW CARBON STEEL HIGH PERMEABILITY, LOW RESIDUAL INDUCTION
 - OPERATE (DEGREES) IS THE ANGULAR DISTANCE FROM THE LEADING EDGE OF THE TOOTH TO THE CENTERLINE ON THE SENSOR
 - RELEASE (DEGREES) IS THE ANGULAR DISTANCE FROM THE TRAILING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR
 - OPERATING SPECIFICATION IS BASED ON TARGET SHOWN AND WILL VARY WITH TARGET GEOMETRY

ELECTRICAL CHARACTERISTICS

	CONDITION	
SPECIFIED VOLTAGE RANGE		3.8 TO 30 VDC
MAX I _{off}	V _{cc} =30V, I _{sink} =20mA, -20°C<T<85°C, B=MAX OP	9.0 mA
MAX I _{on}	V _{cc} =30V, I _{sink} =20mA, -20°C<T<85°C, B=MAX OP	10.0 mA
RATED SINK CURRENT		20 mA
MAX V _{sot}	V _{cc} =3.8V, I _{sink} =20mA, B=MAX OP	0.4 V
MAX LEAKAGE CURRENT	V _{out} =30V, V _{cc} =24V, B=MIN REL	10 μA
RISE TIME 10% TO 90%	T=25°C, V _{cc} =12V, R ₂ =1.6 KΩ, C ₂ =20pf	1.5 μS
FALL TIME 90% TO 10%	T=25°C, V _{cc} =12V, R ₂ =1.6 KΩ, C ₂ =20pf	1.5 μS

ABSOLUTE MAXIMUM RATINGS

TEMPERATURE	-20°C TO +85°C
SUPPLY VOLTAGE (V _s)	3.8 VDC TO 30 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-0.5 TO +30 VDC
OUTPUT CURRENT	50 mA
MAGNETIC FLUX	NO LIMIT. CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE



UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: <input checked="" type="checkbox"/> DECIMAL <input type="checkbox"/> FRACTION	DRAWN	SAV	20DEC99
NO PLACE .X ±.040 ±.1	CHECK	JAF	20DEC99
ONE PLACE .XX ±.030 ±.4	THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL SENSING AND CONTROL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.		
TWO PLACE .XXX ±.015 ±.15	DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED		
THREE PLACE .XXXX ±.005 ±.1	2D PTC		
ANGLES ±.1	ASME Y14.5M-1994		
RAW MATERIAL-COMMERCIAL STANDARD	SCALE 2 : 1		

Honeywell		Sensing and Control	
TITLE			
VANE SENSOR			
SIZE	DWG TYPE	DRAWING NAME	REV
C	M	SR16C-J4	2
SCALE 2 : 1		WEIGHT	SHEET 1 OF 1