

REV	DOCUMENT	CHANGED BY	CHECK
1	DR-5334	GRT 6 MAR 00	SAV
2	200532	SAV 27MAY00	SAV

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 _{sat}	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 μ A
RISE TIME 10% TO 90%	T=25°C, V _{cc} =12V, R ₂ =1.6 K Ω , C ₂ =20pf	1.5 μ S
FALL TIME 90% TO 10%	T=25°C, V _{cc} =12V, R ₂ =1.6 K Ω , C ₂ =20pf	1.5 μ S

OPERATING SPECIFICATIONS

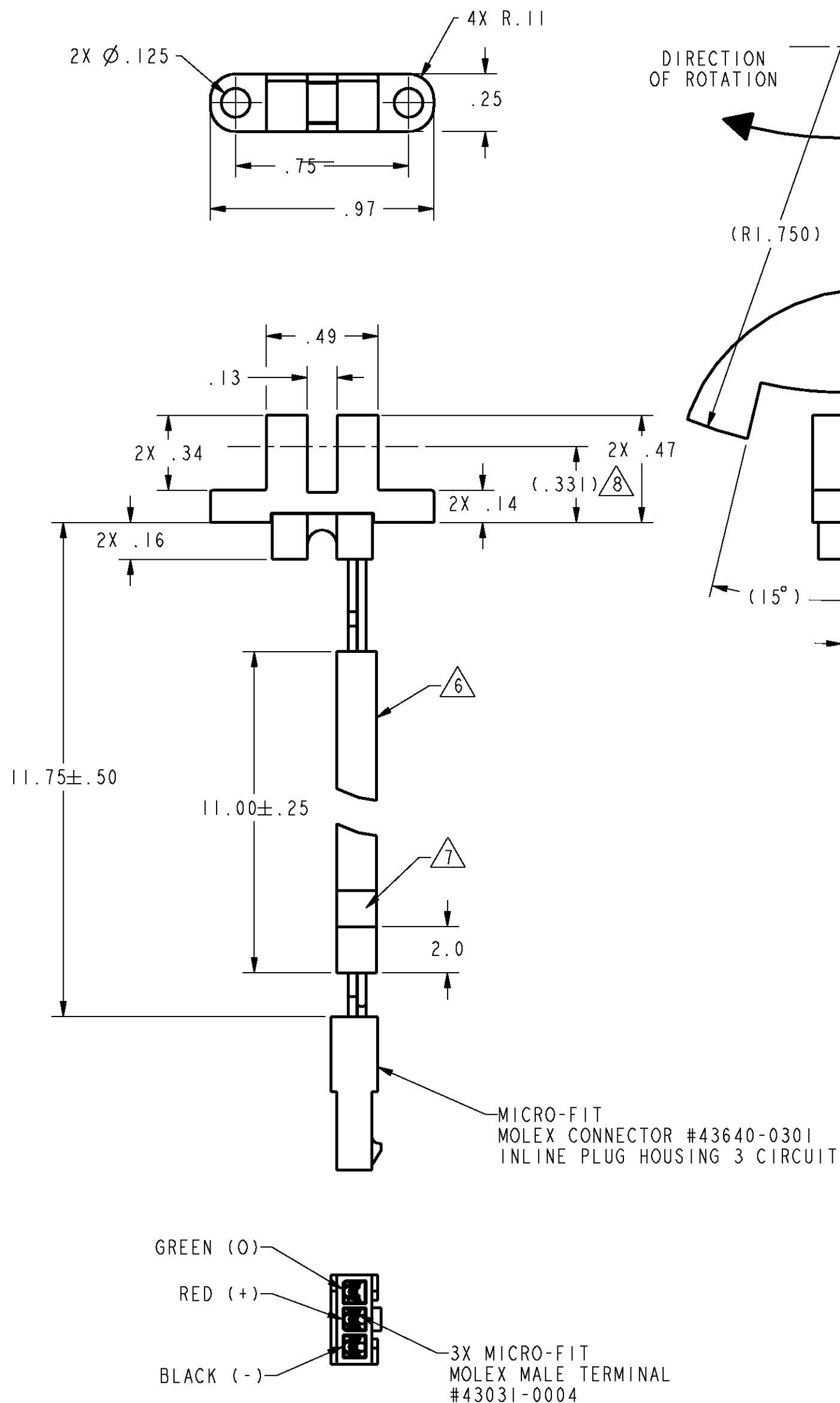
	LIMIT	CONDITIONS
OPERATE $\triangle 3$	1.5° $\pm$ 2.0°	TARGET ENGAGEMENT .150 TO .300 (NOMINAL ENGAGEMENT IS .225) RPM 0 TO 5000 SLOT DEPTH .250 MIN
RELEASE $\triangle 4$	3.0° $\pm$ 2.5°	

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

NOTES

- 1 - MOUNTING SPECIFICATION: NON-FERROUS #4 MACHINE HEAD SCREWS WITH .25 OD WASHERS TORQUED TO 3-5 INCH LBS.
- $\triangle 2$ SUGGESTED TARGET CONFIGURATION, MATERIAL: .045 LOW CARBON STEEL, HIGH PERMEABILITY, LOW RESIDUAL INDUCTION
- $\triangle 3$ OPERATE (DEGREES) IS THE ANGULAR DISTANCE FROM THE LEADING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR
- $\triangle 4$ RELEASE (DEGREES) IS THE ANGULAR DISTANCE FROM THE TRAILING EDGE OF THE TOOTH TO THE CENTERLINE OF THE SENSOR
- $\triangle 5$ OPERATING SPECIFICATION IS BASED ON TARGET SHOWN AND WILL VARY WITH TARGET GEOMETRY
- $\triangle 6$ PVC-105 TUBING #8 (BLACK)
- $\triangle 7$ LABEL IDENTIFYING CUSTOMER PART NUMBER, CUSTOMER REVISION NUMBER HONEYWELL, INC. CATALOG LISTING AND DATE CODE. LOCATE LABEL ON TUBING 2.0 INCHES FROM END OF TUBING/CONNECTOR SIDE
- $\triangle 8$ DIMENSION DENOTES SENSOR ELEMENT POSITION



UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			☒ US (inch) CUSTOMARY	☐ SI (mm) METRIC	DRAWN	GRT	6 MAR 00	Honeywell Sensing and Control				
NO PLACE .X			±.040	±1	CHECK	SAV	6 MAR 00					
ONE PLACE .X			±.030	±0.4	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 .XX			±.015	±0.15								
THREE PLACE .XXX			±.005	±								
ANGLES			±	±								
RAW MATERIAL-COMMERCIAL STANDARD												
THIRD ANGLE PROJECTION					DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED			TITLE		VANE SENSOR (MAGNETIC),		
					3D PTC		ASME Y14.5M-1994		SIZE	DWG TYPE	DRAWING NAME	REV
									C	M	SR16C-J5	2
									SCALE 2 : 1		WEIGHT	