

HONEYWELL

2AV56

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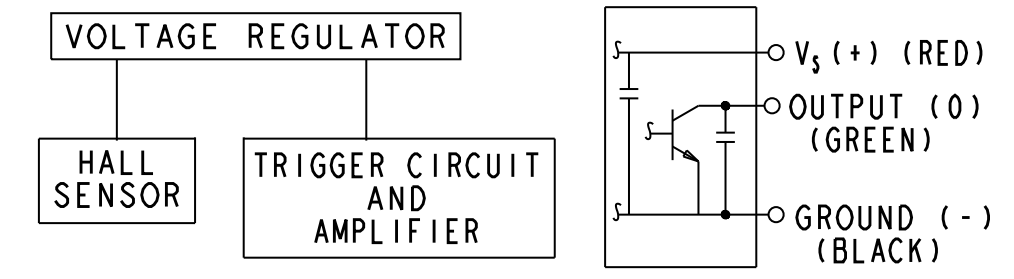
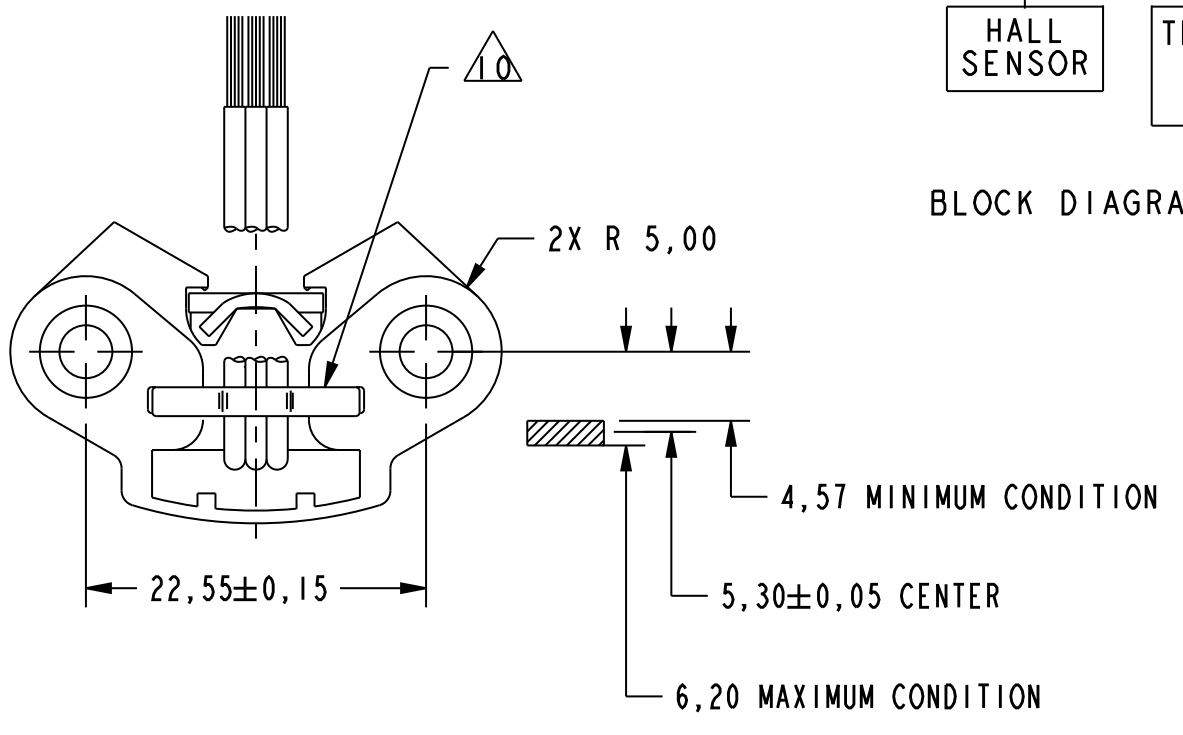
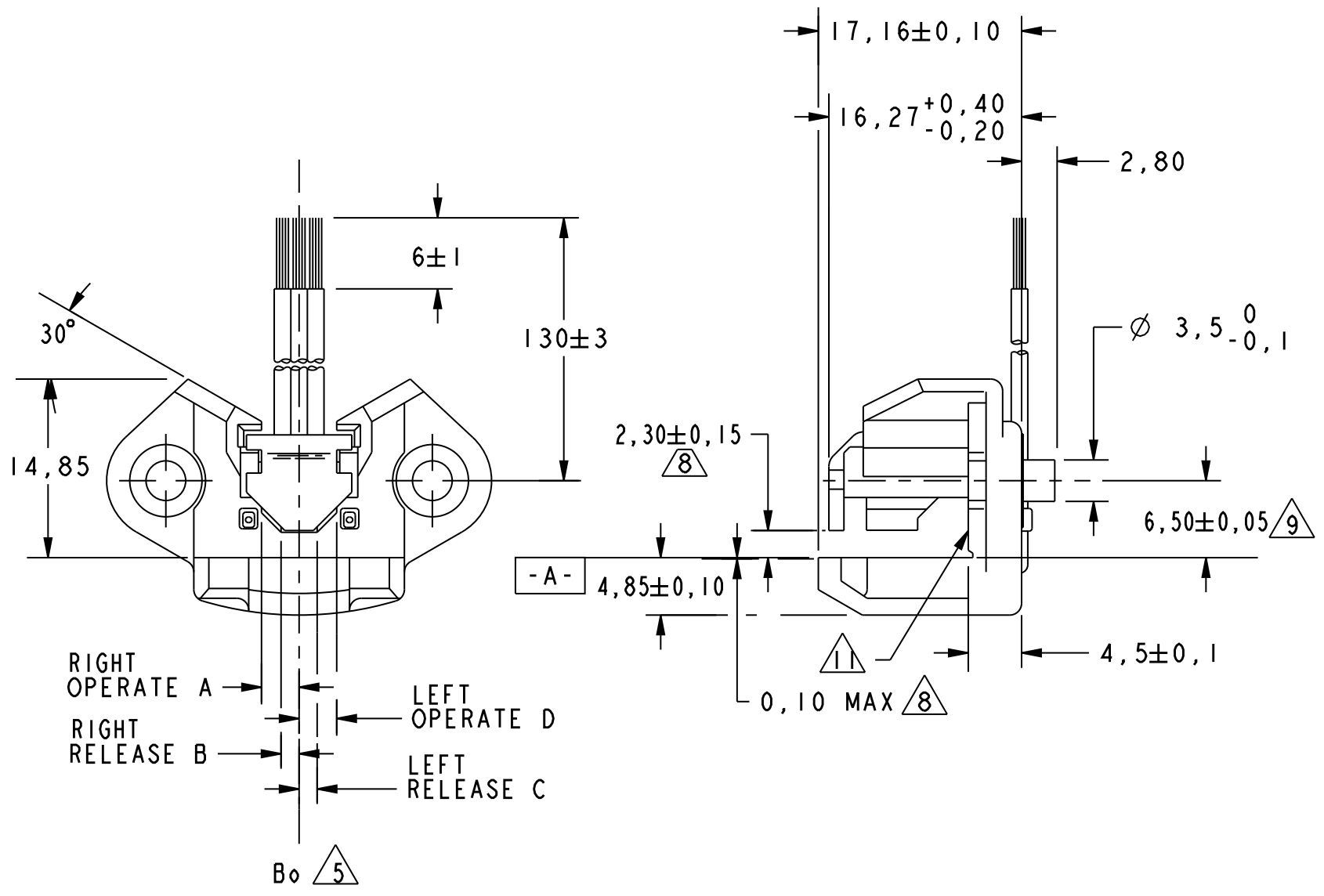
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- NOTES
- 1 OVER VOLTAGE RANGE OF 4.5 TO 24 VDC AND TEMPERATURE RANGE OF -40°C TO +150°C
 - 2 SWITCH IS OFF (RELEASED) WHEN VANE IS IN GAP
 - 3 CHARACTERISTICS MEASURED WITH THE VANE AT NOMINAL DIMENSION AND A 20mA LOAD
 - 4 A 0,79±0,01 THICK CRS (ANNEALED 1010-1018 OR LOWER CARBON) VANE OF SHOWN DIMENSIONS IS TO BE USED WHEN CHECKING MECHANICAL CHARACTERISTICS. VANE CENTER TO BE HELD 5,30±0,05 FROM RIVET CENTERLINE
 - 5 $B_0 = (\text{MECHANICAL CHARACTERISTICS CENTER REFERENCE POINT})$, DETERMINED BY THE EQUATION: $(A+B+C+D)/4=B_0$. OPERATE = TRAILING EDGE TRIGGER POINT. RELEASE = LEADING EDGE TRIGGER POINT. DIFFERENTIAL = OPERATE MINUS RELEASE (A - C)
 - 6 ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL WITHSTAND WITHOUT PERMANENT DAMAGE TO THE DEVICE. HOWEVER, DEVICE OPERATION IS NOT GUARANTEED AS MAXIMUM LIMITS ARE APPROACHED
 - 7 MAX RISE TIME IS BASED ON 4700 pF +20% -10% CAPACITOR FROM OUTPUT TO COMMON (GROUND) AND SUPPLY TO COMMON (GROUND)
 - 8 THIS DIMENSION TO BE MEASURED FROM BASE OF IC TOWER TO MAGNET FACE. STEADY STATE DEFLECTION AT TOP OF IC TOWER MAY NOT EXCEED 0,10 ABSOLUTE, RELATIVE TO DATUM A
 - 9 THIS DIMENSION TO BE MEASURED FROM BASE OF IC TOWER TO RIVET CENTERLINE
 - 10 LEADS SECURED BY PRESS FIT BRACKET (STAPLE); 1.5 POUND MINIMUM RETENTION EPOXY IN THIS AREA MAX. 0,3 HEIGHT PERMISSIBLE
 - 11 CATALOG LISTING AND DATE CODE MARKED THIS SURFACE
 - 12 A POSITIVE DELTA OPERATE MEANS THE OPERATE POINT IS MOVING AWAY FROM B_0 . A POSITIVE DELTA RELEASE MEANS THE RELEASE POINT IS MOVING TOWARD B_0 . DELTAS ARE REFERENCED FROM CHARACTERISTIC MEASUREMENT AT 12 VDC AND 25°C
 - 13 14- WIRES ARE 24 AWG CROSS-LINKED POLYETHYLENE

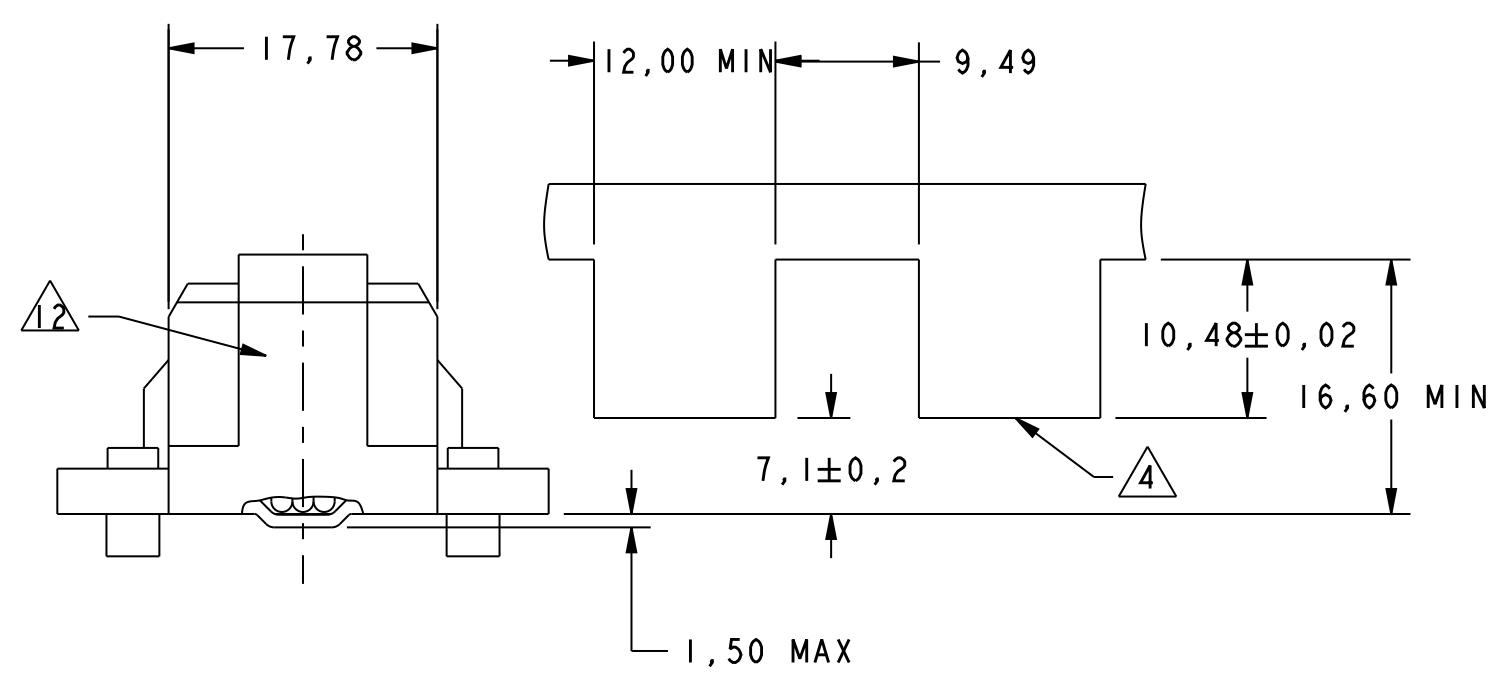
ABSOLUTE MAXIMUM RATINGS	
SUPPLY VOLTAGE (V _S)	-40 TO +30
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+40 VDC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.8 VDC MIN WITH SWITCH IN "ON" OR "OFF" CONDITION
LOAD ON OUTPUT	40 mA 5 MIN, MAX
TEMPERATURE	-40°C TO 160°C 2 HR MAX
TRANSIENT SUPPLY VOLTAGE	+80 V FOR 250mSEC MAXIMUM
TRANSIENT SUPPLY CURRENT	- .5 AMP TO + .5 AMP FOR 15 MICROSEC MAX
TRANSIENT OUTPUT CURRENT	- .5 AMP TO + .5 AMP FOR 15 MICROSEC MAX

ELECTRICAL CHARACTERISTICS			
SUPPLY CURRENT	25°C TYP	CURRENT SINK	
		MAX	REMARKS
	10.5mA	22 mA	PLUS LOAD CURRENT
OUTPUT VOLTAGE (OPERATED) (ON)	0.15	0.4 VOLTS	20 mA MAX LOAD
OUTPUT LEAKAGE CURRENT (RELEASED) (OFF)	0.2 μA	10 μA	OUTPUT TRANSISTOR LEAKAGE
OUTPUT SWITCHING TIME RISE TIME (REL. POINT) FALL TIME (OPER. POINT)	6.2 μS 0.1 μS	12 μS 1 μS	40mA LOAD TO 24 VOLTS 10% TO 90% 90% TO 10%

MECHANICAL CHARACTERISTICS				
OPERATING RANGE	LEFT OR RIGHT			DIFFERENTIAL L TO R, R TO L
	OPERATE	RELEASE	DIFF	
12 VDC, 25°C	1,19±0,20	-1,02±0,50	0,38±0,33	2,21±0,30
12V, 25°C TO 4.5V, -40°C	0,03±0,25	-0,03±0,20		-0,03±0,45
12V, 25°C TO 24V, -40°C	0,05±0,18	-0,03±0,15		-0,03±0,43
12V, 25°C TO 4.5V, 150°C	-0,03±0,46	-0,03±0,48		-0,03±0,83
12V, 25°C TO 24V, 150°C	0,03±0,51	-0,03±0,51		-0,03±0,83



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT



CAUTION
ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT IN A STATIC FREE ENVIRONMENT

ESD SENSITIVITY:
CLASS 3

THIRD ANGLE PROJECTION			
SCALE 2 : 1			
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :			
NO PLACES	BIN	TOL	BIN
ONE PLACE	XX	1/100	XX
TWO PLACES	XX	0.01/0.016	XXX
THREE PLACES	XXX	0.15/0.006	XXX
ANGLES			
	SI METRIC		US CUSTOMARY
DESIGN UNITS	<input checked="" type="checkbox"/>		<input type="checkbox"/>
WEIGHT			

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MICRO SWITCH
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SOLID STATE VANE SWITCH

CATALOG LISTING
2AV56

FED. MFG. CODE 91929

ANSI Y14.5M-1982 APPLIES

2AV56

ISSUE 9

REVISIONS

REV	DATE	BY	CHKD	DESCRIPTION
A	09/57/51	TSM		
B	0066220	3 FEB 00		

PTC/CAD 2D

3 FEB 00