

FO-55118-A

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HONEYWELL  
PART NUMBER  
RPNS090DD2A21X

REV	CHANGE DOCUMENT	CHANGED BY	CHECK
A	0040247	VS 23JUN08	BLR

Technical Data	
<b>Function</b>	<b>Angular Sensor</b>
Sensor principle	Contact-free, Hall effect
<b>Measuring range</b>	<b>90°</b>
Mechanical end stop	No
Supply voltage	8 – 30 VDC
Current consumption max.	20 mA
<b>Output signal</b>	
Angle /°	Output signal
L (45°)	4 mA
0°	12 mA
R (45°)	20 mA
Delay of the output signal	ca. 3 ms
Reverse polarity protection	Yes
Output	24h short-circuit proof
EMC	200V/m acc. to ISO 11452-3
<b>Ambient conditions</b>	
Operating temperature:	- 40°C bis + 85°C
Temperature range (storage)	- 40°C bis + 125°C
protection class	IP67 acc. to DIN 40050
Tightening torque of the mounting screw max.	2,5 Nm ± 0,5 Nm
Accuracy	±1,6%
Hysteresis	None
Linearity	± 2°
Cycles of rotation	30 x 10 <sup>6</sup> cycles

### Charateristic curve

Angle [°]	Output Signal [mA]
50 (L)	4
40	6
30	8
20	10
10	12
0	12
10	14
20	16
30	18
40	20
50 (R)	20

	Zero point
	Housing Material PA66
	Shaft Material Stainless Steel
	Tab Connector acc. to DT04- 3P Deutsch Shall mate with Connector DT06-3S Deutsch

Dimension	Tolerance
φ6	q6 -0.004 5.996 -0.012 5.988
φ2	H11 0 +0.06 2.06

Pin configuration	
1	GND
2	Ub 8-30 VDC
3	4-20 mA

DESIGN UNITS: MM  
TOLERANCES UNLESS NOTED:  
GEOMETRICAL TOLERANCE ACCORDING TO DIN ISO 1101  
GENERAL TOLERANCES ACCORDING TO DIN 16901-130B

DRAWN	JA	19JUN08
CHECK	JLH	19JUN08
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INTERPRET PER ASME Y14.5M-1994 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY		

<b>Honeywell</b>			
TITLE ANGULAR SENSOR ±45°			
SIZE	TYPE	DRAWING NAME	REV
A3	I	RPNS090DD2A21X	A

THIRD ANGLE PROJECTION

AutoCad	2D	SCALE	-	SHEET	1	OF	1
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