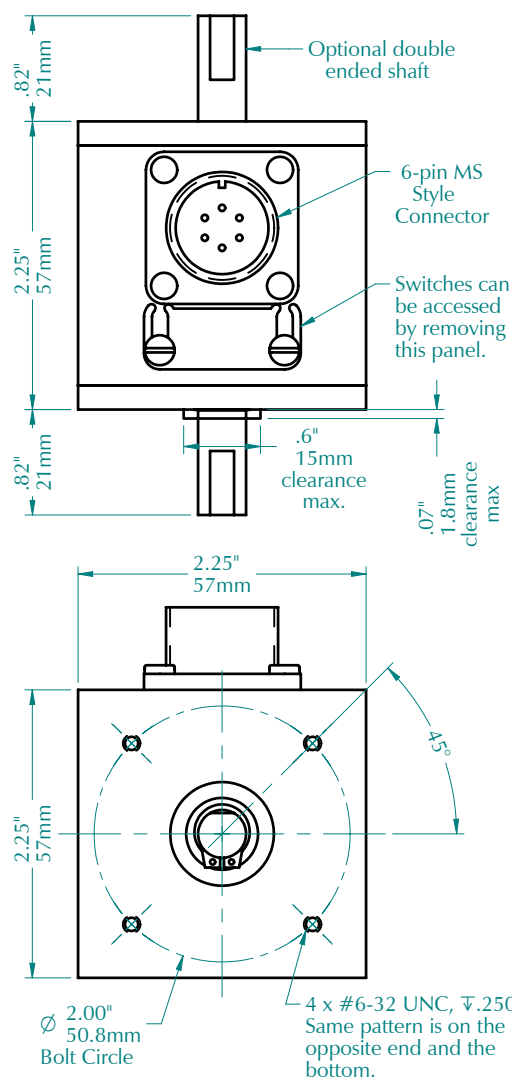


FEATURES

- DIP switch selectable counts per revolution
- .125 through 8 counts per revolution in .125 steps
- 1/4", 5/16" or 3/8" shaft diameter
- Single or double ended shaft
- Anti-Jitter feature
- CE and RoHS compliant available
- ESD and short circuit protection
- 5 vdc and 8 to 30 vdc supply voltages
- Non-programmable models available

DIMENSIONS

(shown with 3/8" diameter, double ended shaft)



PO Box 25135 813-886-4000
Tampa FL 33622-5135, USA 800-237-0946
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SPECIFICATIONS**Electrical****Supply Voltages:** (specify when ordering)

5 ± 5% VDC or 8-30 VDC

Supply Current: 50 mA max (no load)**Operating Temperature:** -25° to +85° C**Output Circuit:** (specify when ordering)

Output voltage level is approximately the same as the input voltage level.

Single Ended:

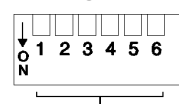
— NPN open collector (30vdc/50ma max)

— Push/Pull (50ma max source/sink)

Differential Line Driver:

— 7272 line driver (output same as supply volts)

— RS422 line driver (regulated 5vdc output)

Maximum operating speed: 2,500 rpm**Configuration Switches****Switch definitions:**☐ Up (off)☒ Down (on)

Counts per Revolution Selection					
1	2	3	4	5	6
0.125	☐	☐	☐	☐	☐
0.250	☐	☐	☐	☐	☐
0.375	☐	☐	☐	☐	☐
0.500	☐	☐	☐	☐	☐
0.625	☐	☐	☐	☐	☐
0.750	☐	☐	☐	☐	☐
0.875	☐	☐	☐	☐	☐
1.000	☐	☐	☐	☐	☐
1.125	☐	☐	☐	☐	☐
1.250	☐	☐	☐	☐	☐
1.375	☐	☐	☐	☐	☐
1.500	☐	☐	☐	☐	☐
1.625	☐	☐	☐	☐	☐
1.750	☐	☐	☐	☐	☐
1.875	☐	☐	☐	☐	☐
2.000	☐	☐	☐	☐	☐
2.125	☐	☐	☐	☐	☐
2.250	☐	☐	☐	☐	☐
2.375	☐	☐	☐	☐	☐
2.500	☐	☐	☐	☐	☐
2.625	☐	☐	☐	☐	☐
2.750	☐	☐	☐	☐	☐
2.875	☐	☐	☐	☐	☐
3.000	☐	☐	☐	☐	☐
3.125	☐	☐	☐	☐	☐
3.250	☐	☐	☐	☐	☐
3.375	☐	☐	☐	☐	☐
3.500	☐	☐	☐	☐	☐
3.625	☐	☐	☐	☐	☐
3.750	☐	☐	☐	☐	☐
3.875	☐	☐	☐	☐	☐
4.000	☐	☐	☐	☐	☐
4.125	☐	☐	☐	☐	☐
4.250	☐	☐	☐	☐	☐
4.375	☐	☐	☐	☐	☐
4.500	☐	☐	☐	☐	☐
4.625	☐	☐	☐	☐	☐
4.750	☐	☐	☐	☐	☐
4.875	☐	☐	☐	☐	☐
5.000	☐	☐	☐	☐	☐
5.125	☐	☐	☐	☐	☐
5.250	☐	☐	☐	☐	☐
5.375	☐	☐	☐	☐	☐
5.500	☐	☐	☐	☐	☐
5.625	☐	☐	☐	☐	☐
5.750	☐	☐	☐	☐	☐
5.875	☐	☐	☐	☐	☐
6.000	☐	☐	☐	☐	☐
6.125	☐	☐	☐	☐	☐
6.250	☐	☐	☐	☐	☐
6.375	☐	☐	☐	☐	☐
6.500	☐	☐	☐	☐	☐
6.625	☐	☐	☐	☐	☐
6.750	☐	☐	☐	☐	☐
6.875	☐	☐	☐	☐	☐
7.000	☐	☐	☐	☐	☐
7.125	☐	☐	☐	☐	☐
7.250	☐	☐	☐	☐	☐
7.375	☐	☐	☐	☐	☐
7.500	☐	☐	☐	☐	☐
7.625	☐	☐	☐	☐	☐
7.750	☐	☐	☐	☐	☐
7.875	☐	☐	☐	☐	☐
8.000	☐	☐	☐	☐	☐

Mechanical**Shaft Diameters:** (specify when ordering)

1/4", 5/16", 3/8"

Shaft Style: (specify when ordering)

single ended or double ended

Shaft Loading: Radial: 25 lbs. / 11.3 kg max.

Axial: 15 lbs. / 6.8 kg max.

*A flexible shaft coupling is recommended.***Bearing Life:** 36 x 1,000,000/rpm = hours**Materials:** Case: Aluminum, anodized

Shaft: 303 Stainless steel

Switch cover: ABS plastic

Weight: 11 oz. (312 grams)**Outputs****Counts per Revolution:** Selectable by setting the configuration switches. Output A is "low" when power is initially applied.**Output Waveform:** 50/50 squarewave

— Pulse symmetry: 180° ± 30%

— Pulse interval jitter: 30% max

Anti-jitter: Increases pulse hysteresis to 1/2 of a pulse width eliminating the dither caused by excess mechanical vibration and the resulting false output pulses.**Electrical Connections****Single Ended Outputs:**

6-pin	4-pin	Function	Wire Color
A	3	Common	Black
B	1	Supply Voltage	Red
D	4	Output A	White
C,E,F	2	no connection	--

Differential Line Driver Outputs:

6-pin	4-pin	Function	Wire Color
A	3	Common	Black
B	1	Supply Voltage	Red
C	4	Output +A	White
D	2	Output -A	Green
E,F	--	no connection	--

4-pin 12mm is Turck FS4.4/14.5 or equivalent

6-pin MS is C-5015 style 97-3102A-14S-6P or similar

MODEL NUMBER

RS	P	.125AJ	Supply Voltage: 5=5vdc, 8-30=8 to 30 vdc	Output Circuit: leave blank for push/pull C=NPN open collector, DL=RS422 line driver, DH=7272 line driver	Modification Number: 6-pin MS is standard M131=4-pin 12mm connector Call or see our website for other modifications.	Accessories: leave blank for no accessories. Call or see our website for more information.
Model Number	Programmable model	Program: name of factory configured program.				
Shaft Diameter: A = 5/16", B = 3/8", C = 1/4"						
Shaft Style: leave blank for single ended D=double ended						

Example: RSB-P.125AJ/8-30 - 3/8" single ended shaft, programmable model factory configured with the .125AJ program, 8-30 vdc, push/pull output, no modification or accessories