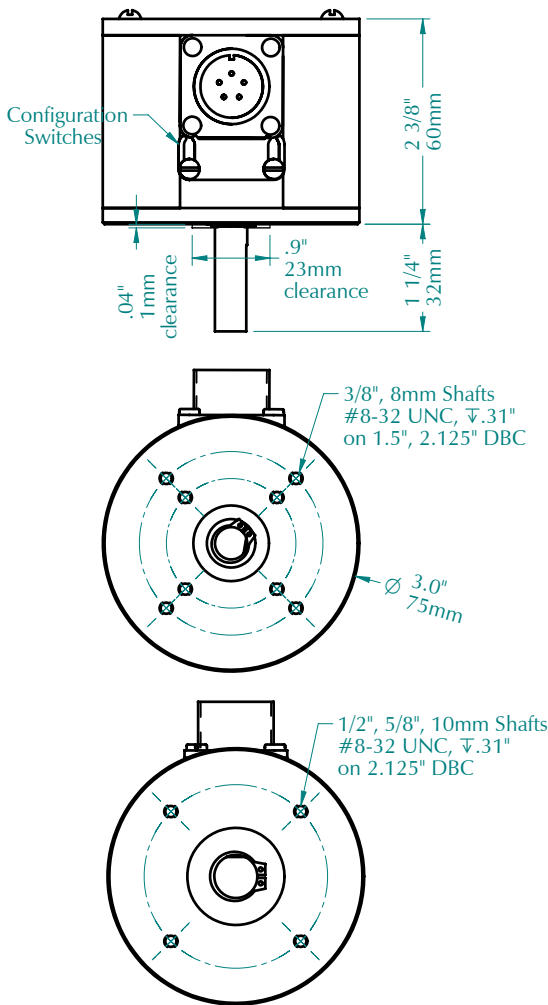


FEATURES

- DIP switch selectable counts per revolution
- .125 through 8 pulses per revolution in .125 steps
- Shaft diameters: 3/8", 1/2", 5/8", 8mm, 10mm
- 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 shaft, 5-pin connector)

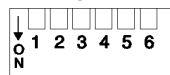
**SPECIFICATIONS****Electrical****Supply Voltages:** (specify when ordering)5 $\pm$ 5% VDC or 8-30 VDC**Supply Current:** 50 mA max (no load)**Operating Temperature:** -25° to +85° C**Output Circuit:** (specify when ordering)Single Ended:

— 7273 open collector

(30 VDC max, 50 mA max)

— 7272 Push-Pull

(50 mA max source or sink)

Differential Line Driver:— 7272 differential line driver
(output level same as supply voltage)— RS422 differential line driver
(with regulated 5vdc output level)**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	☐	☐	☐	☐	☐

Figure 1

Mechanical**Weight:** 16.8 oz (475 gm) without cable**Shaft Loading:**

Shaft Diameter	Radial Lbs (kg)	Axial Lbs (kg)	Factor (BL)
3/8" / 8mm	40 (18.1)	30 (13.6)	32
1/2" / 10mm	45 (20.4)	35 (15.9)	37
5/8"	50 (22.7)	40 (18.1)	41

Bearing Life: BL x 1,000,000/rpm = hours**Materials:**

— Case: 1/4" Aluminum, anodized

— Shaft: 303 Stainless steel

— Switch cover: ABS plastic

Outputs**Counts per Revolution:** Selectable by setting switches 1 to 6 (figure 1). Output is "low" when power is initially applied.**Output Format:** Single square wave pulse output (A)**Symmetry:** 180° $\pm$ 30%**Pulse interval jitter:** 30% max**Anti-Jitter:** Increases pulse output hysteresis to 1/2 of a pulse width, eliminating any extraneous pulses that might be caused by mechanical vibration.**Electrical Connections**

5-Pin	Single Ended	Wire Color
A	Supply Voltage	Red
B	Common	Black
C	Pulse Output	White
D	not used	—
E	not used	—
6-Pin	Differential Line Driver	Wire Color
A	Common	Black
B	Supply Voltage	Red
C	Pulse output (+A)	White
D	Pulse Output (-A)	Green
E	not used	—
F	not used	—

MODEL NUMBER

RL	P	.125AJ			
Model Number	P = Programmable model	Program: name of factory configured program.			
Shaft Diameter: blank for 3/8", .5 = 1/2", .625 = 5/8", M8 = 8mm, M10 = 10mm, D = 3/8" double ended					
Supply Voltage: 5 = 5vdc, 8-30 = 8 to 30 vdc					
Output Circuit: leave blank for 7272 push/pull, C = 7273 open collector, DH = 7272 line driver, DL = RS422 line driver with 5vdc output level					
Modification Number: optional modification or special feature ID. Call or see our website.					
Accessories: leave blank for no accessories. Call or see our website for more information.					

Example: **RL-P.125AJ/8-30** - 3/8" shaft, programmable model factory configured with the .125AJ program, 8-30 vdc, push/pull output, 5-pin connector



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