Programmable Cube Style Encoder

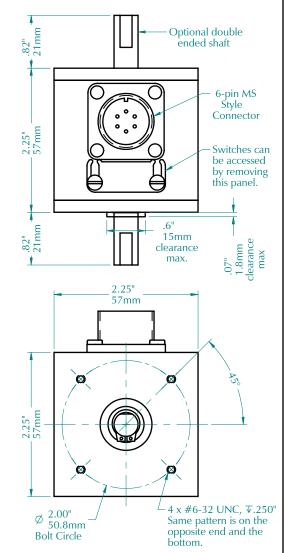
SPECIFICATIONS

FEATURES

- DIP switch selectable counts per revolution
- 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)





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Electrical

Supply Voltages: (specify when ordering) $5 \pm 5\%$ VDC or 8-30 VDC

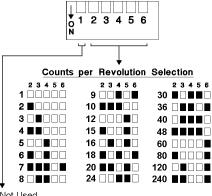
Supply Current: 50 mA max (no load) Operating Temperature: -25° to $+85^{\circ}$ C

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).

Accessories

See our website for cables, measuring wheels, flexible shaft couplings, mounting brackets, and conveyor adapters.

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:** $36 \times 1,000,000/\text{rpm} = \text{hours}$

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
В	1	Supply Voltage	e Red
D	4	Output A	White
C,E,F	2	no connectio	n

Differential Line Driver Outputs:

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

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	240AJ				
Model Number	Shaft Diameter: $A = 5/16''$, $B = 3/8''$, $C = 1/4''$	Shaft Style: leave blank for single ended D=double ended		P =Programmable model	Program: name of factory configured program.	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.

Example: RSB-P240AJ/8-30 - 3/8" single ended shaft, programmable model factory configured with the 240AJ program, 8-30 vdc, push/pull output, no modification or accessories