

Now up to 10,000 CPR!





#### **Features**

- The Original Industry-Standard Cube
- · Five Versatile Housing Styles
- Thousands of Configurations
- · New Resolutions Available to 10,000!

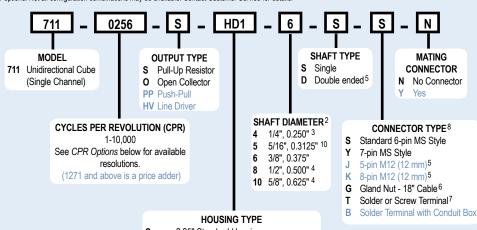
The Model 711 Accu-Coder™ is the original, industry standard Cube encoder. Designed for compatibility with most programmable controllers, electronic counters, motion controllers, and motor drives, it is ideally suited for applications that require a simple, symmetrical, unidirectional square wave output in a single channel format. Increasing critical performance specifications for the most popular resolutions and features advanced Opto-ASIC circuitry, a single chip design that eliminates many board level components. This increases the reliability of an already dependable and durable encoder. With new options continually being added, we just keep getting better, and better!

# **Common Applications**

Feedback For Counters, PLC's & Motors, Measuring For Packaging, Filling & Materials Handling Machines, Wire Winding, Film Extrusion

# Model 711 Ordering Guide

Blue type indicates price adder options. Not all configuration combinations may be available. Contact Customer Service for details.



For specification assistance call Customer Service at 1-800-366-5412

#### Model 711 CPR Options

	<del>•••••</del>	•	<b>-</b>			
0001 t	hru 0189	*	0193	0198	0200	0205
0210	0240	0250	0256	0276	0298	0300
0305	0308	0315	0333	0336	0350	0360
0400	0480	0500	0512	0580	0597	0600
0700	0720	0800	0840	0960	1000	1024
1200	1250	1270	1500	1800*	2000	2048
2500	3000	3600*	4096	5000	6000	72003
8192	10.000					

\*Contact Customer Service For Availability

Contact Customer Service for other disk resolutions; not all disk resolutions available with all output types

\$ 2.25" Standard Housing
\$1 2.25" Standard Housing with IP50 Felt
Shaft Seal 1
IND12 Industrial Housing with IP65 Shaft Seal

HD1 3" x 3" x 6" Heavy Duty Housing
HD3 Heavy Duty Housing with

Conduit Connector & Terminal Strip

HD5 Heavy Duty Housing with 10 mm Outer

Bearing
HD10 Heavy Duty Housing with Ultra Heavy

Duty Bearings, 0.625" or 0.500" Shaft

HD12 Heavy Duty Housing with IP65

Outer Shaft Seal

HD14 Heavy Duty Housing with IP65 Shaft Seal and with Conduit Connector & Terminal Strip

5PY Standard Cube With 5PY Adaptor 9
EX Explosion-proof Housing

#### NOTES:

- 1 Available with 0.250" shaft only.
- 2 Contact Customer Service for custom shaft lengths and diameters.
- 3 Standard housing only.
- 4 HD10 housing only.
- Not available for HD or EX housings.
- 6 For non-standard cable lengths, add a forward slash (/) plus cable length expressed in feet. Example: G/6 = 6 feet of cable. For CPR > 2500. Standard cable length only.
- 7 Screw terminals available for HD and EX housings. Solder terminals available for S and S1 housings.
- For Mating Connectors, Cables, and Cordsets see www.encoder.com.
- **9** Only available with 5/16" (0.3125") shaft.
- 10 Standard or 5PY housing only.

# Model 711

Input Current.



# Model 711 Specifications Common to All Cube Housing Styles

Electrical
Input Voltage...........4.75 to 28 VDC max for temperatures up to 85° C
4.75 to 24 VDC for temperatures between 85° C
and 100° C.

....80 mA maximum with no output load
....100 mV peak-to-peak at 0 to 100 kHz

Line Driver- 20 mA max per channel (Meets RS 422 at 5 VDC supply)

Max Frequency.......1 to 2500 CPR 125 kHz, 2501 to 5000 CPR 250 kHz, 5001 to 10,000 CPR 500 kHz

KHz, 5001 to 10,000 CPR 500 k Standard Cube- 0 to 20 kHz

Mechanical

Bearings ...... Precision ABEC Ball Bearings

Electrical Conn........6-, 7-, or 10-pin MS Style, 5-, or 8-pin M12 (12 mm), Gland with 18" cable (foil and braid shield, 24 AWG conductors), Solder Terminal or Solder

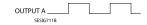
Terminal with conduit box

Environmental

Operating Temp.......0° to 85° C or 0° to 100° C at 5 to 24 VDC Storage Temp.......25° to +85° C

Humidity...........98% RH non-condensing Vibration..........10 g @ 58 to 500 Hz Shock.............50 g @ 11 ms duration

# Waveform Diagram



# **Cube Pivot Bracket**



Dual Wheel

176430-01 Single Pivot Mounting Bracket

176431-01 Double Pivot Mounting Bracket

176430-02 Spring Loaded Single Pivot Mounting Bracket

176431-02 Spring Loaded Double Pivot Mounting Bracket



Single Wheel, Stainless Steel Spring, Mounting Bracket

### Wiring Table

F	unction	Gland Cable Wire Color	5-pin M12	8-pin M12	10-pin MS	7-pin MS H∨	<b>7-pin MS</b> O, S PP	6-pin MS HV No Index	6-pin MS O, S PP	Term. Block HV No Index	Term. Block O, S, HV, PP
	Com	Black	3	7	F	F	F	Α	A, F	1	1, 6
	+VDC	Red	1	2	D	D	D	В	В	2	2
	Α	White	4	1	Α	Α	Α	С	D	3	4
	A'	Brown		3	Н	С		D		4	
	Case				O	G	G				
į	Shield	Bare									

# Standard Cube Housing (S, S1) •

# Standard Cube Housing (S, S1) Specifications

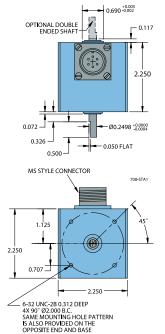
### Mechanical

Weight....

Shaft Size	0.250" or 0.375"
Shaft Type	Single or double-ended (specify choice)
Radial Loading	15 lb maximum (0.250" diameter shaft)
	40 lb maximum (0.375" diameter shaft)
Axial Loading	10 lb maximum (0.250" diameter shaft)
	30 lb maximum (0.375" diameter shaft)
Starting Torque	0.13 oz-in typical for 0.250" shaft
	0.38 oz-in typical for 0.375" shaft
Moment of Inertia	6.5 x 10 <sup>-6</sup> oz-in-sec <sup>2</sup>
Mounting	Tapped mounting holes on three sides for
-	base or face mounting

.10 oz for standard housing

## Cube Housing With 1/4" Shaft (4)



#### Cube Housing With 3/8" Shaft (6)

