Model 715





Features

- · The Original Industry-Standard Cube
- Five Versatile Housing Styles
- **Thousands of Configurations**
- Many New Resolutions Available!

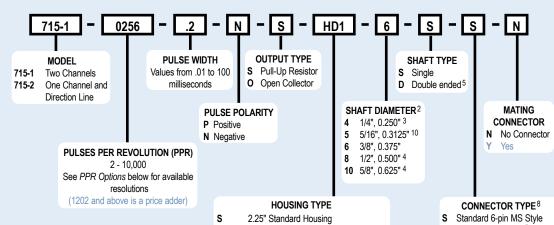
The Model 715 Accu-Coder[™] is ideally suited for applications requiring bi-directional feedback with a constant pulse width. The Model 715 is available in two versions. The Model 715-1 provides output pulses for clockwise shaft rotation on one channel and pulses for counterclockwise rotation on another. The Model 715-2 provides output pulses for counting on one channel while the other channel indicates direction of rotation. 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

Measuring for Cut-To-Length, Labeling & Filling, Position Control, Motion Following, or Slaving Applications

Model 715 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 715 PPR Options

0001 thru 0189*			0193	0198	0200	0205	
	0210	0240	0250	0256	0276	0298	0300
	0305	0308	0333	0336	0350	0360	0400
	0480	0500	0512	0597	0600	0700	0720
	0800	0840	0960	1000	1024	1200	1250
	1270	1800	2000	2048	2500		

1x, 2x, and 4x, of all of the above resolutions are available *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 with IP50 Felt

IND12 Industrial Housing with IP65 Shaft Seal

3" x 3" x 6" Heavy Duty Housing 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

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

Terminal Strip

Standard Cube With 5PY Adaptor 9

Explosion-proof Housing

5PY

- 5-pin M12 (12 mm)⁵
- 8-pin M12 (12 mm)⁵
- **G** Gland Nut 18" Cable ⁶ T Solder or Screw Terminal 7
- Solder Terminal with Conduit

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

Model 715



Model 715 Specifications Common to All Cube Housing Styles

4.75 to 28 VDC max for temperatures up to
85° C 4.75 to 24 VDC for
temperatures between 85° to 100°C
80 mA maximum with no output load
100 mV peak-to-peak at 0 to 100 kHz
.Incremental- Square wave with timed output
. Open Collector- 250 mA max per channel
Pull-Up- 250 mA max per channel
0 to 125 kHz
.Less than 1 microsecond
.Within 0.05° mechanical from one cycle to
any other cycle, or 3 arc minutes

Mechanical .6000 RPM. Higher shaft speeds Max Speed. achievable, contact Customer Service. Shaft Material 303 stainless steel Black non-corrosive finished 6063-T6 Housing. Precision ABEC Ball Bearings Bearings. Electrical Conn... .5- or 8-pin M12 (12 mm), gland nut with 18" cable (foil and braid shield, 24 AWG

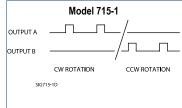
Environmental

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 Hz50 g @ 11 ms duration Shock..

Waveform Diagrams

conductors), Solder or Screw Terminal, with or without Conduit Box.



Model 715-1 - Bi-directional Encoder

The 715-1 provides two output channels, one with a constant pulse width output on one channel for clockwise shaft rotation, and on the other channel for counterclockwise shaft rotation. Specify PPR in any even numbered value between 2 and 5000 std cube, or 2 and 10,000 for E-Cube™. Specify any pulse width from 10 microseconds to 100 milliseconds and pulse polarity. Some options require Heavy Duty housing. The Line Driver output option is not available.

Model 715-2 OUTPUT B -CW ROTATION CCW ROTATION SIG715-2D

Model 715-2 - Bi-directional Encoder

The 715-2 provides two output channels, one channel has a constant pulse width output regardless of shaft rotation. The other channel an up/down direction line with logic level "1" for clockwise shaft rotation, and level "0" for counterclockwise shaft rotation. Options are the same as for the Model 715-1.

Wiring Table

Function	Gland Cable Wire Color	5-pin M12	8-pin M12	6-pin MS	Term. Block
Com	Black	3	7	A, F	1, 6
+VDC	Red	1	2	В	2
Α	White	4	1	D	4
В	Blue	2	4	Е	5
Shield	Bare				

Cube Pivot Bracket



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

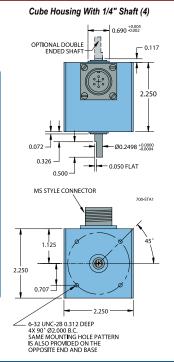
> Single Wheel, Stainless Stee Spring, Mounting Bracket

Standard Cube Housing (S, S1) •

Standard Cube Housing (S, S1) **Specifications**

Mechanical

Shaft Size.. ..0.250" or 0.375" .Single or double-ended (specify choice) Shaft Type . ..15 lb maximum (0.250" diameter shaft) Radial Loading 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 Inertia6.5 x 10⁻⁶ oz-in-sec² . Tapped mounting holes on three sides for base Mounting.... or face mounting Weight. .. 10 oz for standard housing



Cube Housing With 3/8" Shaft (6) 0.355 0.500 - 0.050 FLAT MS STYLE CONNECTOR 0.707 -



6-32 UNC-2B 0.312 DEEP 4X 90° Ø2.000 B.C. SAME MOUNTING HOLE PATTERN IS ALSO PROVIDED ON THE OPPOSITE END AND BASE