Model 775





Features

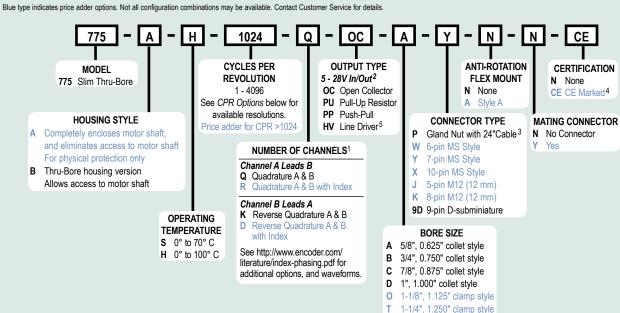
- · Thru-Bore Design For Easy Mounting
- Bore Options to 1.375"
- · Incorporates Opto-ASIC Technology
- Resolutions to 4096 CPR
- 100° C Operating Temperature Available
- · CE Marking Available

The sleek design of the Model 775 Thru-Bore Series Accu-Coder™ makes form and function a successful reality. The slim profile and Thru-Bore design, makes installation easy by simply slipping the bore over motor shafts up to 1.375" in diameter. The advanced Opto-ASIC based electronics provide the superior noise immunity necessary in many industrial applications. With a variety of bore sizes, resolutions, and connector types, application possibilities are endless.

Common Applications

Motor Feedback, Velocity & Position Control, Food Processing, Robotics, **Material Handling**

Model 775 Ordering Guide



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

Model 775 CPR Options

0060	0100	0120	0240	0250	0256
0500	0512	0600	1000	1024	2048
2500	4096				

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

NOTES:

1-3/8", 1.375" clamp style

H 14 mm collet style 19 mm collet style

K 24 mm collet style

Q 30 mm clamp style R 32 mm clamp style

25 mm clamp style 28 mm clamp style

- 1 Contact Customer Service for index gating options.
 - 5 to 24 VDC max for high temperature option.
 - For non-standard cable lengths, add a forward slash (/) plus cable length expressed in feet. Example: P/6 = 6 feet of cable.
- Please refer to Technical Bulletin TB100: When to Choose The CE Option at www.encoder.com.
- 5 Not available with 5-pin M12 or 6-pin MS connector. Available with 7-pin MS connector only without Index Z.





Model 775 Specifications

Electrical

Input Voltage. .4.75 to 28 VDC max for temperatures up to 70° C

4.75 to 24 VDC for temperatures between

 70° C to 100° C

Input Current. 100 mA max with no output load 100 mV peak-to-peak at 0 to 100 kHz Input Ripple. Output Format Incremental- Two square waves in quadra-

ture with channel A leading B for clockwise shaft rotation, as viewed from the mounting face. See Waveform Diagrams below.

Open Collector- 100 mA max per channel **Output Types** Pull-Up- 100 mA max per channel

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

Once per revolution. Index.....

0475 to 4096 CPR: Gated to output A 0001 to 0474 CPR: Ungated

See Waveform Diagrams below.

Max Frequency. 200 kHz

Tested to BS EN61000-4-2; IEC801-3; BS Noise Immunity

EN61000-4-4; DDENV 50141; DDENV 50204; BS EN55022 (with European compliance option); BS EN61000-6-2; BS

EN50081-2

.180° (±18°) electrical Symmetry. Quad. Phasing. .90° (±22.5°) electrical

Min. Edge Sep. .67.5° electrical

Less than 1 microsecond Rise Time.

Mechanical

Bore Size.

.6000 RPM. Higher shaft speeds may be Max Shaft Speed. achievable, contact Customer Service.

0.625", 0.750", 0.875", 1.000", 14 mm, 19 mm, 24 mm, 1.125", 1.250", 1.375", 25 mm,

28 mm, 30 mm, 32 mm Note: Bore sizes 1.125", 1.250", 1.375".

25 mm, 28 mm, 30 mm, 32 mm are clamp style. All others are collet style.

User Shaft Tolerances

Radial Runout......0.005"

Axial Endplay ±0.030" with appropriate flex mount Moment of Inertia3.3 X 10⁻³ oz-in-sec² typical

..Gland nut with 24" cable (foil and braid Electrical Conn

shield, 24 AWG conductors), 6-, 7-, or 10-pin MS Style, 5- or 8-pin M12 (12 mm),

9-pin D-subminiature Housing. All metal construction

Mounting. Thru-Bore with collet clamp or single-screw

clamp mount

Weight. 1.0 lb with gland nut or D-sub connector

option 1.5 lb with MS connector option Note: All weights typical

Environmental

Operating Temp .0° to 70° C for standard models

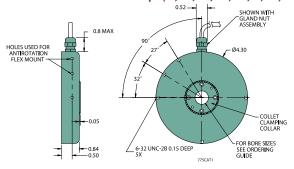
0° to 100° C for high temperature option

Storage Temp .-25° to 100° C Humidity. .98% RH non-condensing

Vibration. 10 g @ 58 to 500 Hz .50 g @ 11 ms duration Shock..

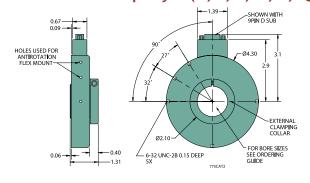
Sealing.

Model 775 Collet Clamp (A, B, C, D, H, I, K)



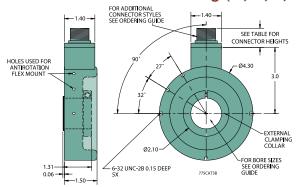


Model 775 Clamp Style (O, T, V, M, L, Q)





Model 775 Extended Housing (W, X, Y, J, K)





All dimensions are in inches with a tolerance of ±0.005" or ±0.01" unless otherwise specified

Waveform Diagrams Line Driver and Push-Pull

Line Dilver and Fusir-Full						
OUTPUT A						
OUTPUT Ā						
OUTPUT B						
OUTPUT B						
INDEX Z gated to A = 180' ungated 270'						
INDEX Z gated to A = 180* ungated 270* ungated 270*						
CLOCKWISE ROTATION NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES						
Open Collector and Pull-Up						
OUTPUT A OUTPUT A						
OUTPUT B						
INDEX Z gated to A = 180* ungated 270* CLOCKWISE ROTATION						
NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES SE770LR NOTE: INDEX IS POSITIVE GOING						

Wiring Table

wiring lable											
Function	Gland Cable Wire Color	5-pin M12 ⁴ PU, PP, OC	8-pin M12 ⁴	10-pin MS	7-pin MS H∨	7-pin MS PU, PP, OC	6-pin MS PU, PP, OC	9-pin D-sub			
Com	Black	3	7	F	F	F	A, F	9			
+VDC	Red	1	2	D	D	D	В	1			
Α	White	4	1	Α	Α	Α	D	2			
A'	Brown	-	3	Н	O	-		3			
В	Blue	2	4	В	В	В	Е	4			
B'	Violet		5	1	Е			5			
Z	Orange	5	6	С	1	O	C	6			
Z'	Yellow		8	J	-	-		7			
Shield	Bare ¹										
Case				G ²	G ²	G ²		8 ³			

¹CE Ontion: Cable shield (bare wire) is connected to internal Case ²CE Option: Pin G is connected to Case Non CE Option: Pin G has No Connection

CE Option: Pin 8 is connected to Case Non CE Option: Pin 8 has No Connection

CE Option: Read Technical Bulletin "TB111" at www.encoder.com