Model 776 Large Bore Slim Thru-Bore





Features

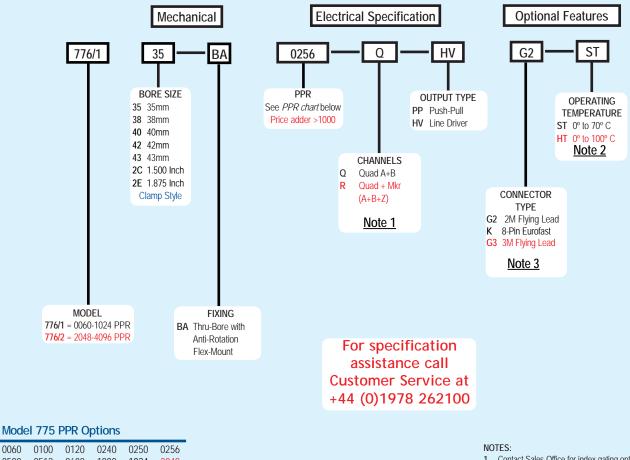
- · Slim Profile Only 33 5mm In Depth
- · Thru-Bore Design For Easy Mounting
- Incorporates Opto-ASIC Technology
- · Resolutions to 4096
- · Bore Options to 1.875"

The Thru-Bore Model 776 encoder is designed to fit directly on either a motor or other shaft where position, direction, or velocity information is needed. The advanced Opto-ASIC based electronics provide the superior noise immunity necessary in many industrial applications. The Model 776 conveniently features a clamp type mount for fast and easy mounting over a large range of shaft sizes. An optional anti-rotation flex mount maintains housing stability.

Common Applications Motor Feedback, Velocity & Position Control, Robotics, Conveyors, **Material Handling**

Model 776 Ordering Guide

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



0060 0500 0512 0600 1000 1024 2048 2500 4096

- Contact Sales Office for index gating options.
- 5 to 24 VCC max for high temperature option.
- For non-standard cable lengths, Please Contact the Sales Office.

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Model 776 Specifications

Electrical

Input Voltage......4.75 to 28 VCC max for temperatures up to

70° C

4.75 to 24 VCC for temperatures between

70° C to 100° C

Input Current...........100 mA max with no output load
Input Ripple100 mV peak-to-peak at 0 to 100 kHz
Output FormatIncremental- Two square waves in quadrature
with channel A leading B for clockwise shaft

rotation, as viewed from the mounting face. See *Waveform Diagrams* below.

Output TypesPush-Pull- 20 mA max per channel Line Driver- 20 mA max per channel (Meets

0500 to 4096 PPR: Gated to output A 0001 to 0500 PPR: Ungated

See Waveform Diagrams below.

Freq. Response......200 kHz

Noise Immunity.......Tested to BS EN61000-4-2;IEC801-3; BS EN61000-4-4;DDENV 50141;DDENV 50204;

BS EN55022;BS EN61000-6-2;BS EN50081-2

Mechanical

Max Shaft Speed......6000 RPM. Higher shaft speeds may be

achievable, contact Customer Service.
.....See ordering chart

Bore Size.....See ordering of

User Shaft Tolerances

Radial Runout0.15mm TIR

Axial Endplay $\underline{\textbf{+}}0.70\text{mm}$ with style BA flex-mount

Electrical Conn......Gland nut with 2M cable (foil and braid shield,

24 AWG conductors), or 8-pin M12 (12 mm)

Housing.....All metal construction

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

clamp mount

Weight......455 gms

Note: All weights typical

Environmental

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

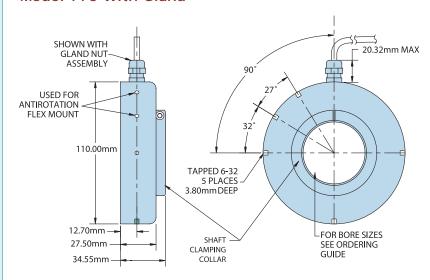
0° to 100° C for high temperature option

Storage Temp-25° to 100° C

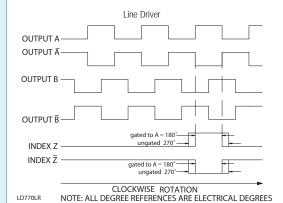
Humidity......98% RH non-condensing Vibration.....10 g @ 58 to 500 Hz

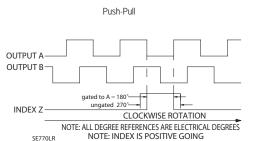
Shock......50 g @ 11 ms duration Sealing.....IP50

Model 776 With Gland



Waveform Diagrams







Wiring Table

Function	Gland Cable Wire Color	8-pin M12
Com	Black	7
+VCC	Red	2
Α	White	1
A'	Brown	3
В	Blue	4
B'	Violet	5
Z	Orange	6
Z'	Yellow	8
Shield	Bare	
Case		