# Model 776 Large Bore Slim Thru-Bore





#### **Features**

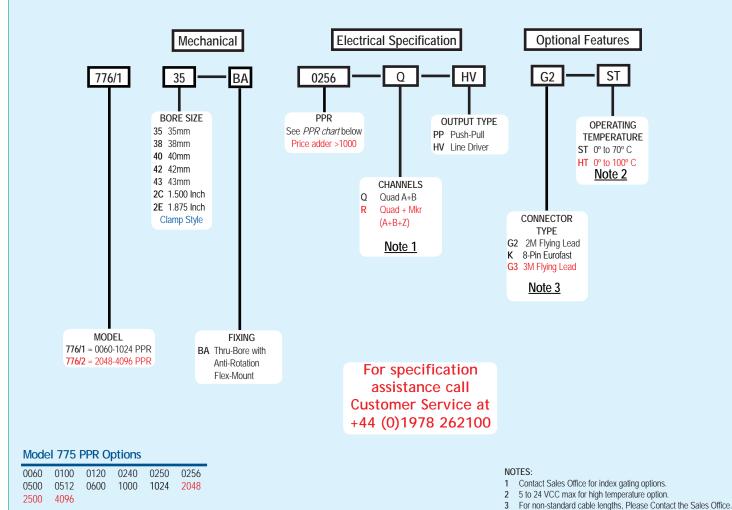
- · Slim Profile Only 33 5mm In Depth
- · Thru-Bore Design For Easy Mounting
- Incorporates Opto-ASIC Technology
- · Resolutions to 4096
- · Bore Options to 1.875"

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.



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# Model 776 Specifications

#### Electrical

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

4.75 to 24 VCC for temperatures between

70° C to 100° C

See *Waveform Diagrams* below.

Push-Pull- 20 mA max per channel

Output Types ......Push-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 FN61000-4-4:DDFNV 50141:DDFNV 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.

Bore Size.....See ordering chart

User Shaft Tolerances

Radial Runout ...... 0.15mm 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 ... 455 gms

.....455 gms

Note: All weights typical

### Environmental

Weight..

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

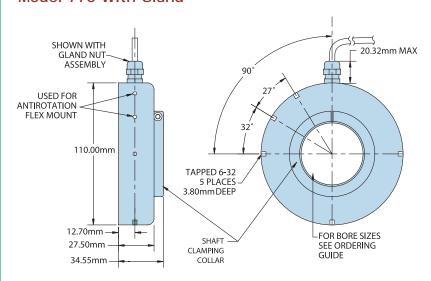
0° to 100° C for high temperature option

Storage Temp .....-25° to 100° C

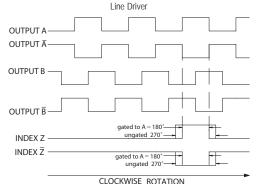
Humidity...........98% RH non-condensing Vibration...........10 g @ 58 to 500 Hz Shock...........50 g @ 11 ms duration

Sealing.....IP50

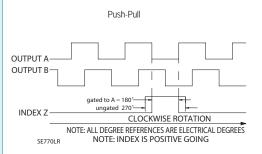
## Model 776 With Gland



### Waveform Diagrams



LD770LR NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES





## Wiring Table

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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		