

# Series 775/776

SERIES 775 / 776



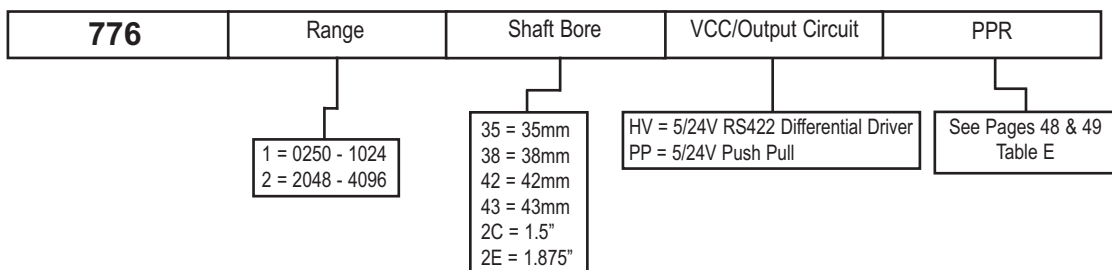
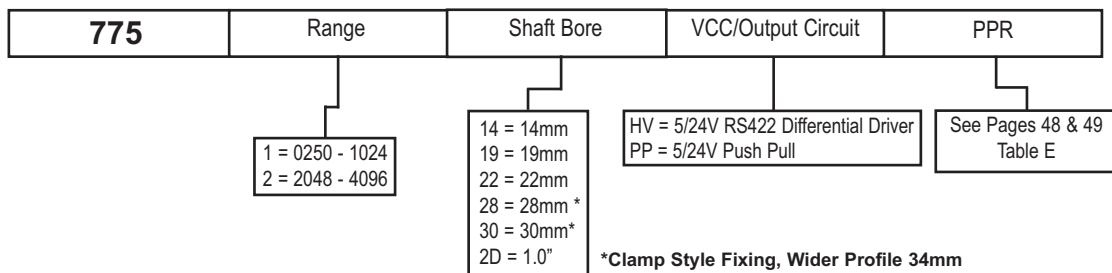
## Design Features

The Series 775 features a collet type mounting clamp and an anti-rotation flex mount for quick and easy mounting. The 775 is available in bore sizes of 14mm, 19mm, 22mm, 28mm, 30mm, and 1.00", whilst the 776 is available in large bore sizes up to 1.875". Electrical features include high voltage line driver (5-24VDC) or Push-Pull, over-voltage protection, and standard 100°C operating temperature. This encoder is fitted with a 2m flying lead.

## Specifications

Input Voltage range .....	5/24V (see output circuits)	Shaft sizes and types .....	See Ordering Information
Regulation, for 5V operation .....	5%, with 2% maximum ripple	Shaft tolerance .....	H7, sliding fit for g6
Current consumption .....	80mA typical	Bearings .....	ABEC 5
Output circuits .....	5/24V Line Driver	Starting torque .....	Varies according to shaft
Frequency response .....	125 KHz	Max motor shaft endplay .....	±0.7mm
Symmetry .....	180° electrical ±5% (+-9°e)	Max motor shaft TIR .....	0.15mm
Quadrature Phasing .....	90° electrical ±10% (+-9°e)	Radial loading .....	Aluminum w/protective finish
Minimum edge separation .....	72° electrical	Axial loading .....	Being the mass of the encoder
Reference marker pulse .....	Gated (A • Z = F)	Housing .....	Being the mass of the encoder
Rise time .....	Less than 1 microsecond	Operating temperature .....	0°C to +100°C
Accuracy (cycle to cycle) .....	±0.017° or 1 Arc/Min	Storage temperature .....	-25°C to +100°C
LED life .....	100,000 hrs typical	Humidity .....	98% RHNC
Pulses per revolution .....	See Ordering Information	Vibration .....	10 G's @ 58 to 500 Hz
Max shaft speed .....	775 - 6,000rpm; 776 - 3500rpm	Shock .....	50 G's for 11 mSec
		Protection .....	IP50

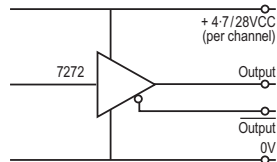
## Ordering Information



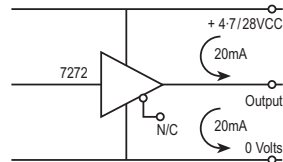


## Output Circuits

HV  
Universal  
Differential  
Line Driver

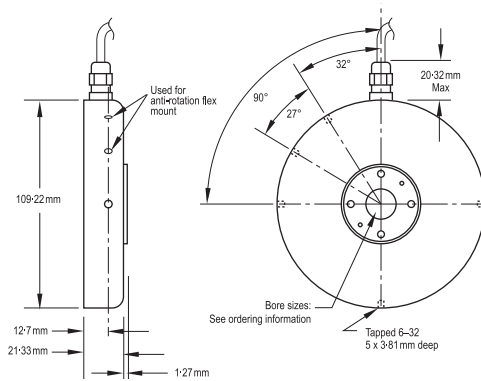


PP  
Push-Pull

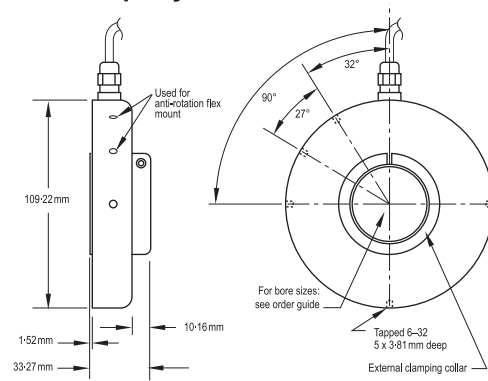


## Dimensions

### 775



### 775 Clamp Style



### 776

