

Series 758



Design Features

The 758 has been designed to offer an exact retro-fit replacement for two of the most widely used machine tool encoder types, and is constructed to withstand the demands of seriously hazardous industrial environments. The cover is machined from solid aluminum and has a 6mm wall thickness. Output circuits include 5/24V RS422 Line Driver and Push-Pull, which will operate to 200 KHz. A stainless steel bodied version, designed especially for food industry applications, is available as is an extended range of high-resolution options to 30,000PPR.

Specifications

Input Voltage range	5/24V (see output circuits)	Starting torque	0.02 Nm
Regulation, for 5V operation	5%, with 2% maximum ripple	Radial loading	120 N operating
Current consumption	80mA typical	Axial loading	120 N operating
Output circuits	See Ordering Information	Moment of inertia	10⁵ radians/sec²
Frequency response	200 KHz	Acceleration	200 g/cm
Symmetry	180° electrical ±5% (±9°e)	Weight	0.275 kg
Quadrature Phasing	90° electrical ±10% (±9°e)	Housing	Aluminum w/protective finish or stainless steel
Minimum edge separation	72° electrical	Operating temperature	-10°C to +70°C
Reference marker pulse	Gated (A • B • Z = F)	Storage temperature	-25°C to +85°C
Rise time	Less than 1 microsecond	Humidity	98% RHNC
Accuracy (cycle to cycle)	±0.017° or 1 Arc/Min	Vibration	10 G's @ 58 to 500 Hz
LED life	100,000 hrs typical	Shock	50 G's for 11 mSec
Pulses per revolution	See Ordering Information	Protection	IP50 standard
Max shaft speed	6,000 rpm continuous		IP64 w/seal (S50)
Shaft sizes and types	See ordering information		IP66 w/seal (S56)
Shaft tolerance	g6, sliding fit for H7		
Bearings	Double Sealed ABEC 5		

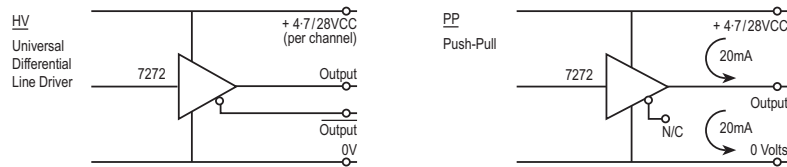
Ordering Information

758	Range	VCC/ Output Circuit	Body Style	Shaft	Connector	PPR	Pin Out Option	Option
	1 = 0001 - 1000 PPR 2 = 1024 - 3000 PPR 3 = 3600 - 10000 PPR 4 = 10240 - 30000 PPR		0 = "20" Type 6 = "26" Type	0 = 10mm 6 = 6mm	EG = End Gland + 2m cable SG = Side Gland + 2m cable E12 = End 12 pin connector* S12 = Side 12 pin connector*		See Pages 48 & 49 Table D	
		HV = 5/24V RS422 Differential Driver PP = 5/24V Push Pull					*For 12 pin connectors see wiring information on page 47	
								SS = Stainless Steel (Leave blank for standard aluminum body)

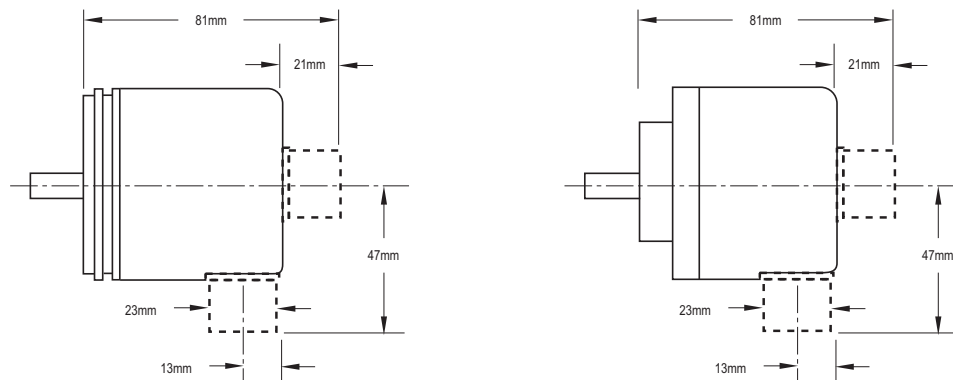
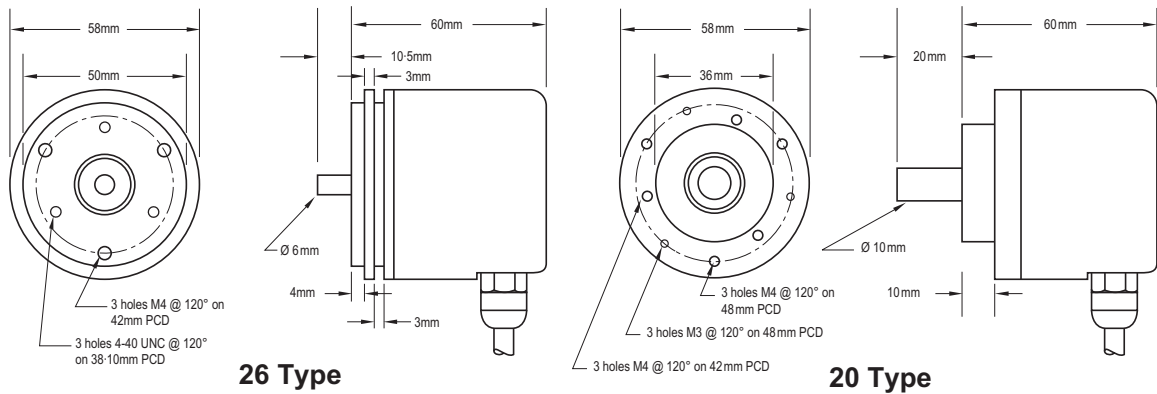




Output Circuits



Dimensions



12 Pin (End and Side Mount)

12 Pin "Contact" Connector Option, available for both body styles, in either radial or axial configuration

