

# INSF Series

## Incremental Shaft Encoder

Maximum Increments ..... 25,000

Shaft Diameters ..... 6, 10 or 12mm

### MECHANICAL SPECIFICATIONS

Maximum RPM ..... 8000  
 Torque ..... >0.05Nm  
 Loading ..... Axial 40N, Radial 30N  
 Weight ..... 320g  
 Temperature ..... -20°C to +70°C

### FEATURES

The INSF encoders are suitable for most industrial applications. This series can be built with up to 25,000 A B phase signals. When used with appropriate circuitry, 25,000 can deliver 100,000 processed signals per revolution.

A range of mounting accessories are also available, refer to the Accessories and Couplings data sheets for full details. NOTE: A flexible coupling must always be used to attach the encoder to the drive shaft.

### ELECTRICAL

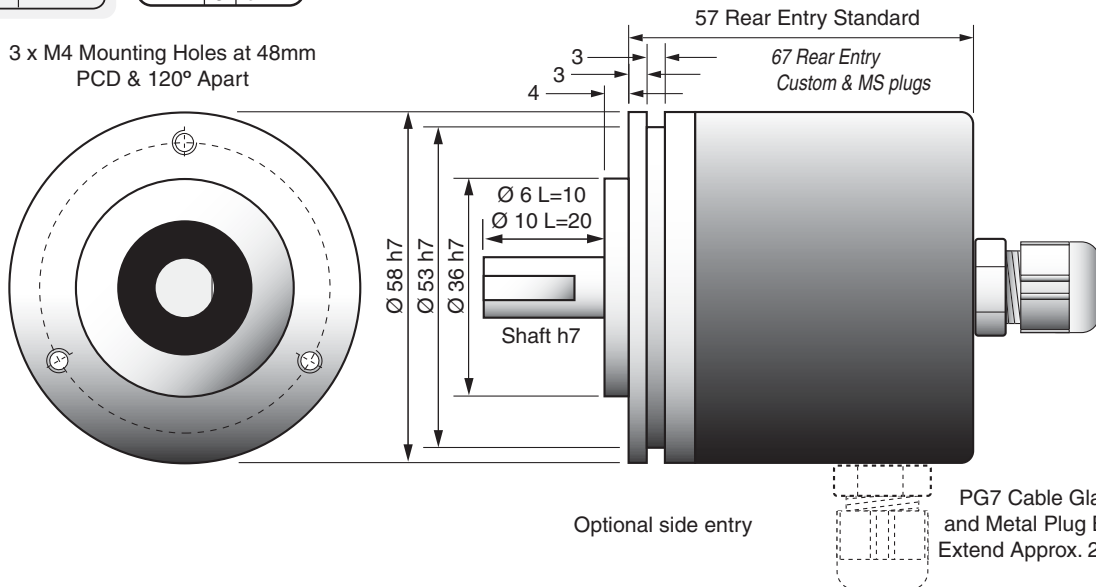
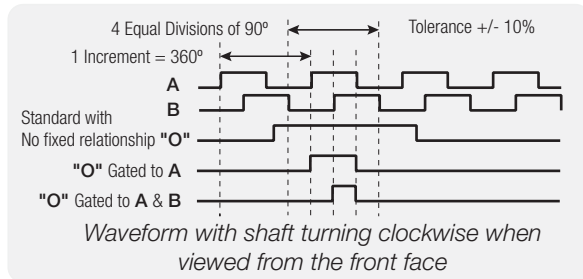
Current Consumption ..... 40mA  
 Maximum output signal frequency ..... 300kHz

NOTE: Short circuit protection on all wires

PCA <sup>AUS</sup>		Plug Pin	Wire
Function	1	Black	0 Volts
Output Signals	2	Red	+ Volts
A	3	White	A
B	4	Blue	B
O	5	Yellow	O
A	6	Green	A
B	7	Violet	B
O	8	Brown	O

W+S		Plug Pin	Wire
Function	1	White	0 Volts
Output Signals	2	Brown	+ Volts
A	3	Green	A
B	4	Yellow	B
O	5	Gray	O
A	6	Pink	A
B	7	Blue	B
O	8	Red	O

Alternate German Wiring for some encoders not made in Australia



### Part Number Selection Guide

Series				Mechanical Options				Electrical Options				Increment Range 00001 to 25000			
1	2	3	4	5	6	7	8	9	10	11	12				
I	N	S	F	□	□	H	□	□	□	A	□	/	□	□	□
<b>Stainless Shaft</b> Shaft ..... 06, 10 or 12mm				<b>Housing Material</b> IP65 Aluminium ..... H				<b>Wiring Entry</b> Rear or Axial ..... R Side or Radial ..... S				<b>Voltage &amp; Output Type</b> 5 Volt Line Driver ..... 1 8 to 30 - Push Pull ..... M			
<b>Wiring Method</b> Cable 2 Meters ..... 2 Cable 5 Meters ..... 3 Cable - Custom Length .. 4 Plug 4 Pin Plastic ..... A Plug 12 Pin Metal ..... L												<b>Output Options</b> Standard NO gating..... A			
												<b>Output Channels</b> A, B (4 Pin Plug only) ..... 2 A, B, O ..... 3 A, B, O, A, B, O ..... 7			

A product of the world wide **GES** group  
 made by W+S Germany  
 ASSEMBLED and serviced in Australia by **PCA**