

INSL Series

Incremental Shaft Encoder

Maximum Increments 25,000

Shaft Diameter 10, 11 or 12mm

MECHANICAL SPECIFICATIONS

Maximum RPM 6000
 Torque >0.1Nm
 Loading Axial 60N, Radial 50N
 Weight Aluminium 1.2kg Stainless 2kg
 Temperature -20°C to +70°C

ELECTRICAL

Current Consumption Nominal 40mA
 Maximum output signal frequency 300kHz

NOTE: Short circuit protection on all wires

FEATURES

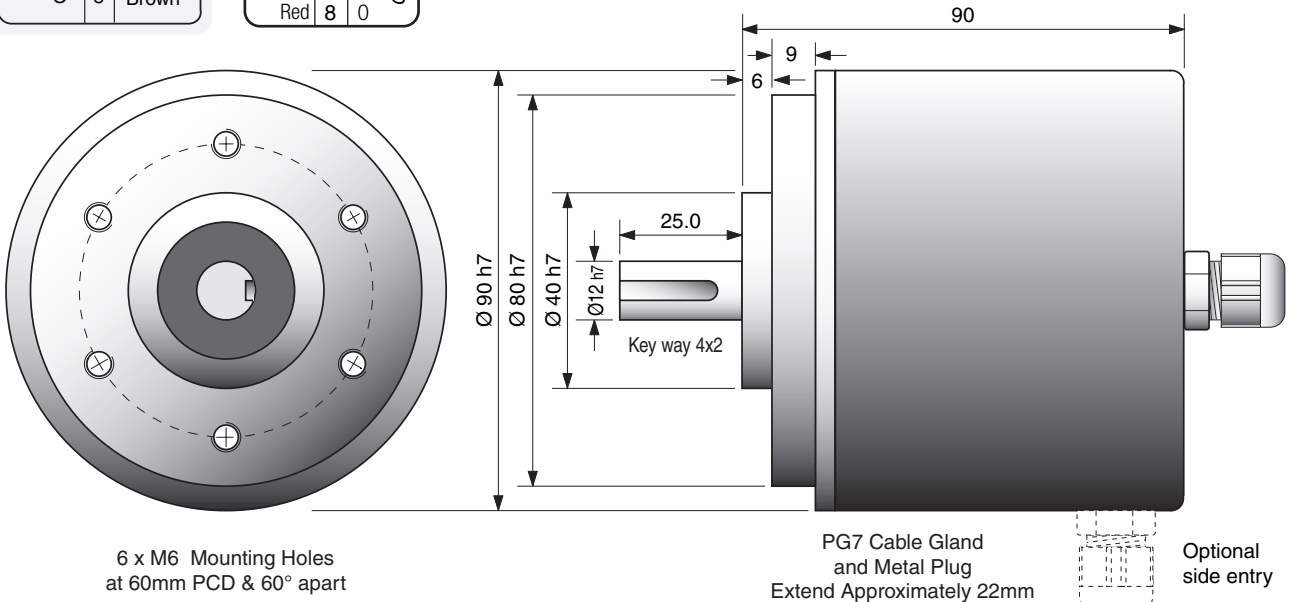
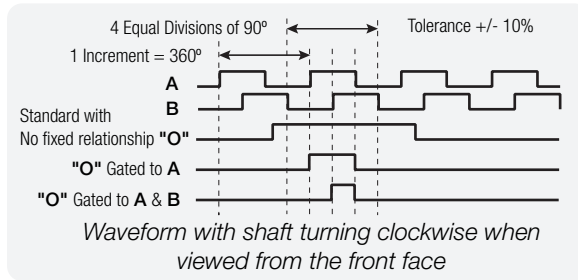
The INSL encoders are suitable for most industrial applications. This series can be built with up to 25,000 A B phase signals. When used with appropriate circuitry, 25,000 can deliver 100,000 processed signals per revolution.

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.

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

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

Alternate German Wiring for some encoders not made in Australia



6 x M6 Mounting Holes at 60mm PCD & 60° apart

PG7 Cable Gland and Metal Plug Extend Approximately 22mm

Optional side entry

Part Number Selection Guide

Series				Mechanical Options				Electrical Options				Increment Range				
1	2	3	4	5	6	7	8	9	10	11	12	00001 to 25000				
I	N	S	L	-	-	B	-	-	-	A	-	/	-	-	-	-
Stainless Shaft Shaft 10, 11 or 12mm								Voltage & Output Type 5 Volt Line Driver 1 8 to 30 - Push Pull M								
Housing Material IP65 Aluminium / Steel B								Output Options Standard NO gating..... A								
Wiring Method Cable 2 Metres 2 Cable 5 Metres 3 Cable - Custom Length .. 4 Plug 4 Pin Plastic A Plug 12 Pin Metal L								Output Channels A, B (4 Pin Plug only) 2 A, B, O 3 A, B, O, A-bar, B-bar, O-bar 7								
Wiring Entry Rear or Axial R Side or Radial S								A product of the world wide GESgroup made by W+S Germany ASSEMBLED and serviced in Australia by PCA								

NOTE:
 10,000
 4 Character
 code = 010K