

# INSC Series

## Incremental Shaft Encoder

Maximum Increments ..... 10,000

Shaft Diameters ..... 6 mm

### MECHANICAL SPECIFICATIONS

Maximum RPM ..... 6000  
 Torque ..... >0.04Nm  
 Loading ..... Axial 30N, Radial 20N  
 Weight ..... 140g  
 Temperature ..... -20°C to +70°C

### FEATURES

The INSC encoders are a very small lightweight encoder, but their solid construction ensures they remain well suited for most industrial applications. The series provides up to 1,024 true A B phase increments per revolution.

### ELECTRICAL

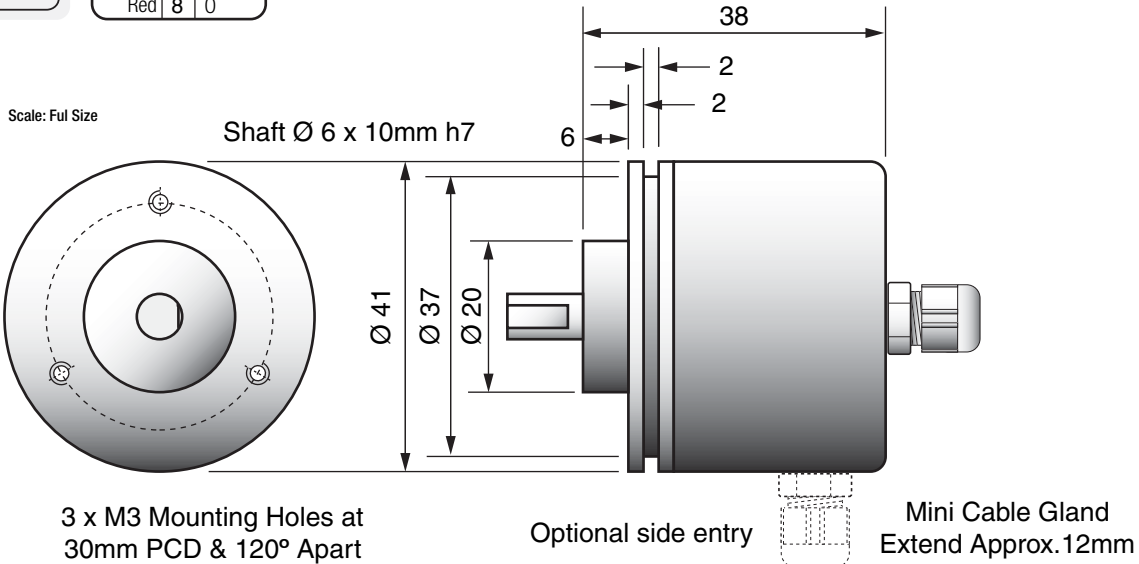
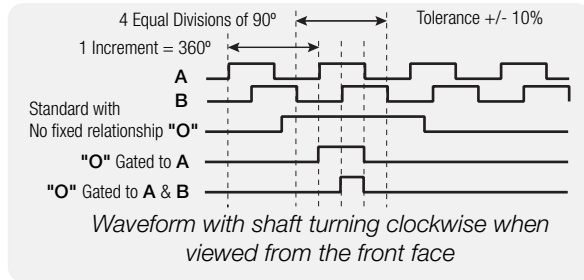
Current Consumption ..... 40mA  
 Maximum output signal frequency ..... 100kHz  
 NOTE: Short circuit protection on all wires

There are two methods for attaching an encoder to a drive shaft. A flexible coupling must be used to turn the shaft when the encoder housing is rigidly mounted. Secondly the encoder may be fixed with a rigid coupling to the drive shaft and a flexible arm attached to the encoder mounting holes to prevent any radial movement.

PCA AUS		
Function	Plug Pin	Wire
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		
Wire	Plug Pin	Output Signals
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



### 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 10,000				
I	N	S	C	0	6	H				A	L	/				
<b>Stainless Shaft</b> Shaft ..... 6 mm								<b>Voltage &amp; Output Type</b> 4.75 to 30 - Push Pull... L								
<b>Housing Material</b> IP65 Aluminum ..... H								<b>Output Options</b> Standard NO gating..... A								
<b>Wiring Method</b> Cable 2 Meters ..... 2 Cable 5 Meters ..... 3 Cable - Custom Length .. 4								<b>Output Channels</b> A, B, O ..... 3 A, B, O, A, B, O ..... 7								
<b>Wiring Entry</b> Rear or Axial ..... R Side or Radial ..... S																

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