

# Model 58TF Incremental Thru-bore Encoder

**BRITISH  
ENCODER**  
PRODUCTS COMPANY



Ø58.0 mm

## FEATURES

- 58 mm Thru-Bore or Hollow Bore Encoder
- Standard and Metric Thru-Bore Sizes up to 5/8" and 15 mm
- Resolution from 1 to 65,536 PPR
- Several Flexible Mounting Options
- Sealing Options up to IP67
- Multiple Connector Options

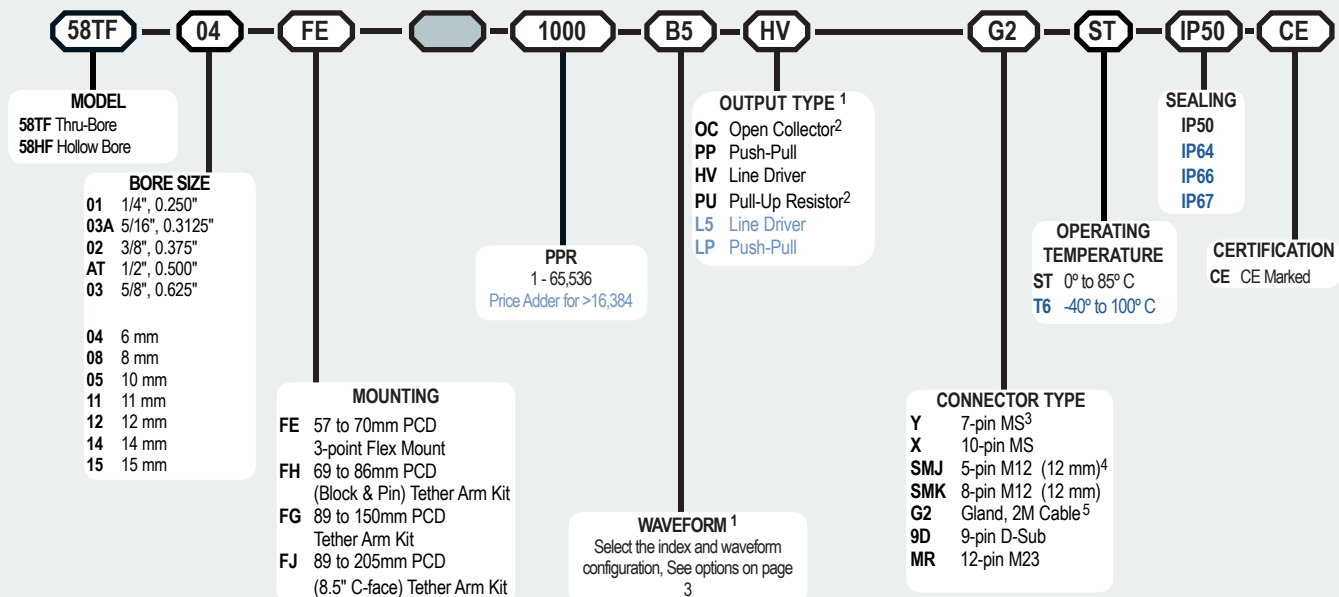
The Model 58TF is a 58 mm thru-bore encoder that is specifically designed for the challenges of an industrial environment. Its advanced set of electronics allow the encoder to be configured to meet your exact application needs. Choose from 6 output types, 32 different waveforms, and select any resolution from 1 to 65,536 PPR (that's 262,144 counts in full quadrature). The Model 58TF is also highly mechanically configurable, with bore options up to 5/8" or 15 mm, several flexible mounting options, multiple connector options, and sealing up to IP67. This versatile thru-bore encoder can go in almost any application.

## Common Applications

Motor Control, Conveyors, Elevator Controls, Machine Control, Food Processing, Process Control, Robotics, Material Handling, Textile Machines and all types of Motion Control Feedback

## Model 58TF Ordering Guide

Blue type indicates price adder options. Not all configuration combinations may be available. Contact Customer Service for details.



For specification  
assistance call  
Customer Service at  
**+44 (0)1978 262100**

## NOTES:

- 1 All output types are 5V to 30V in/out except L5 Line Driver and LP Push-Pull output types, which are 5-30VCC in and 5VCC out.
- 2 Open Collector (OC) and Pull-Up Resistor (PU) outputs not recommended for PPR > 8192 and/or frequencies > 150 kHz.
- 3 7-pin MS Connector does not provide Index Pulse Z when selected output is Line Driver (HV or L5).
- 4 5-pin M12 Connectors only available with Pull-Up, Open Collector, and Push-Pull output types.
- 5 For non-standard English cable lengths enter 'G' plus cable length expressed in Meters.  
Example: G6 = 6 Meters of cable. Frequency above 300 kHz standard cable lengths only.

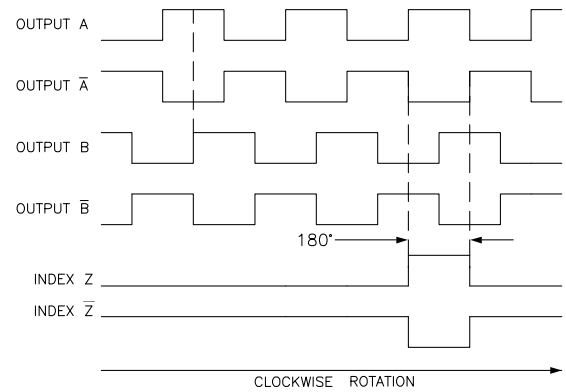


# 58TF Encoder Waveform Selections Table



An BEPC Thru-Bore Encoder in a common application,  
mounted on a motor with an FJ Flex Mount

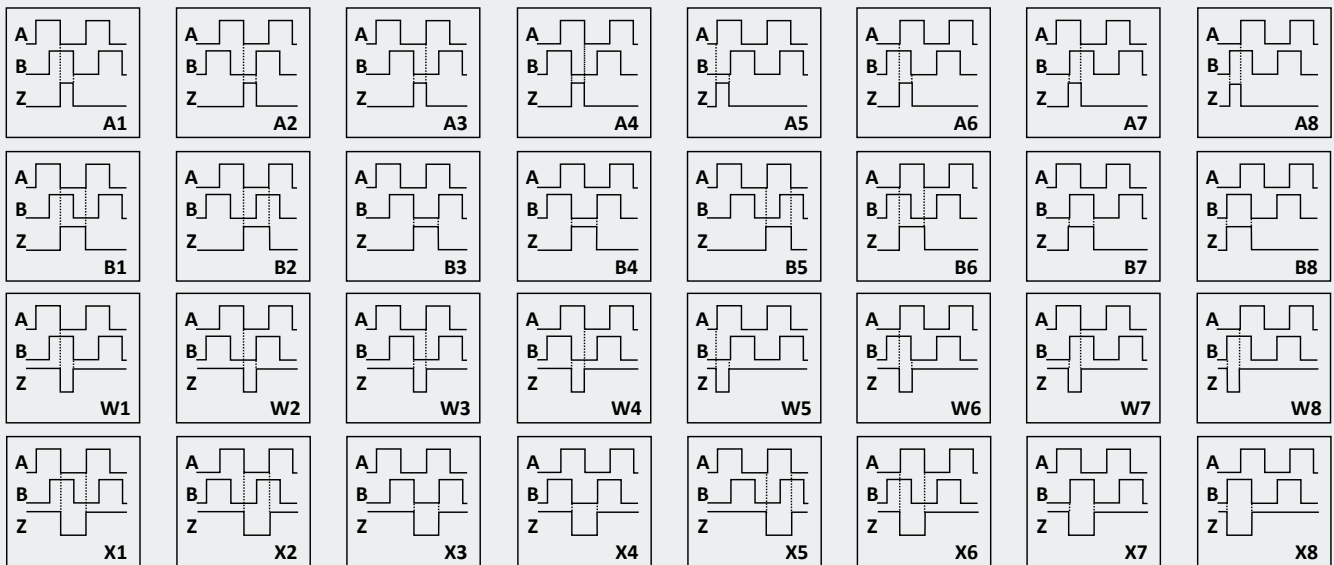
## BEPC Standard Waveform (B5)



NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES.  
NOTE: COMPLEMENTARY SIGNALS (A, B & Z) APPLY TO LINE DRIVER (HV & L5) OUTPUTS ONLY.

## WAVEFORMS

Choose from any of these waveforms when ordering your Encoder.



Odd numbers - A leads B  
Even numbers - B leads A

A and B - High Going Index  
W and X - Low Going Index

A and W - 90 Degree Index  
B and X - 180 Degree Index