

MODEL 58TP – PROGRAMMABLE INCREMENTAL THRU-BORE ENCODER



Ø58 mm

FEATURES

- Programmable with USB Module or Factory Configured when Ordered
- Programmable Resolution from 1 to 65,536 CPR
- Programmable Output Type and Wave Form
- 58 mm Thru-Bore or Hollow Bore (Blind)
- Standard and Metric Thru-Bore Sizes up to 5/8" and 15 mm
- Several Flexible Mounting Options
- Sealing Options up to IP67

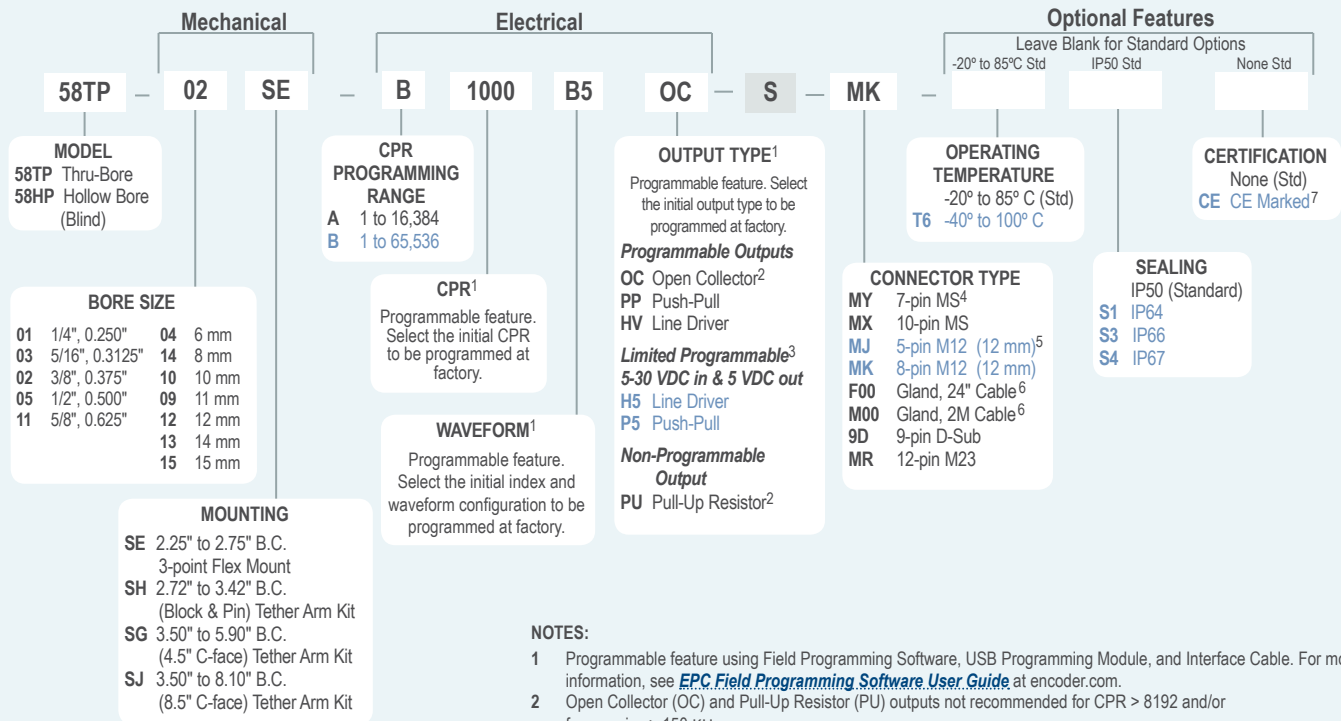
The Model 58TP Programmable 58 mm Accu-CoderPro™ thru-bore encoder is specifically designed for the challenges of an industrial environment. Its advanced set of electronics allow the encoder to be programmed to meet your exact application needs. Using EPC's optional programming module, users may select the output type, 32 different waveforms, and any resolution from 1 to 65,536 CPR – that's 262,144 counts using 4x quadrature counting. These programming features allow a single encoder to be configured for multiple applications, enabling one encoder to replace many different part numbers – and that provides cost savings on inventory and down-time replacement. The 58TP can also be configured and shipped with specs pre-programmed, with no on-site programming needed.

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 58TP ORDERING GUIDE

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



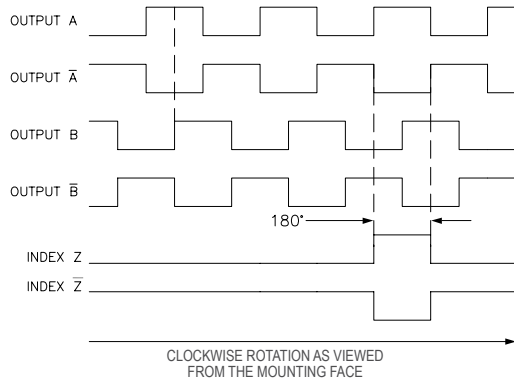
NOTES:

- Programmable feature using Field Programming Software, USB Programming Module, and Interface Cable. For more information, see [EPC Field Programming Software User Guide](#) at encoder.com.
- Open Collector (OC) and Pull-Up Resistor (PU) outputs not recommended for CPR > 8192 and/or frequencies > 150 KHz.
- If ordered with initial output type of either H5 or P5, encoder cannot be programmed to OC, PP, or HV output types.
- 7-pin MS Connector does not provide Index Pulse Z when selected output is Line Driver (HV or H5).
- 5-pin M12 Connectors only available with Pull-Up, Open Collector, and Push-Pull output types.
- For non-standard English cable lengths enter 'F' plus cable length expressed in feet. Example: F06 = 6 feet of cable. For non-standard metric cable lengths enter 'M' plus cable length expressed in meters. Example: M06 = 6 meters of cable. Frequency above 300 kHz standard cable lengths only.
- Please refer to Technical Bulletin [TB100: When to Choose the CE Mark](#) at encoder.com.

ACCU»»CODERPRO™
by Encoder Products Company

EPC STANDARD WAVEFORM (B5)

Additional waveforms available. See below for other options.



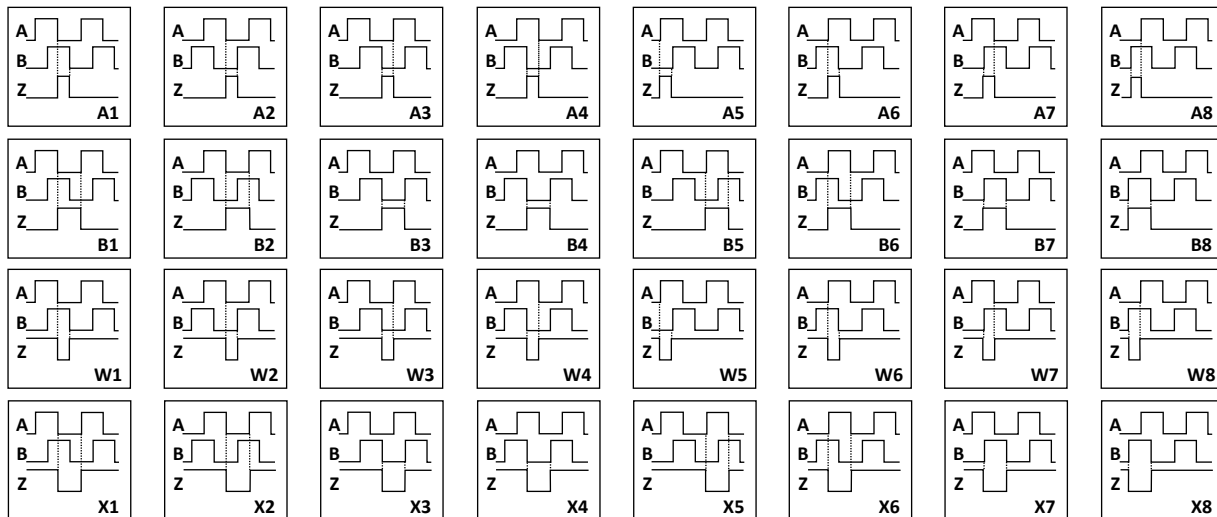
NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES.
COMPLEMENTARY SIGNALS A, \bar{B} , \bar{Z} APPLY TO LINE DRIVER (HV & HS) OUTPUTS ONLY.



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

WAVEFORMS

Choose any of these waveforms using the Field Programming Software, USB programming module, and interface cable (see following page).



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

With the easy to use, point-and-click interface, programming is quick and straight-forward. The number of possible configurations makes this Size 58 programmable thru-bore or hollow bore encoder incredibly versatile. Anywhere a Size 58 thru-bore or hollow bore encoder goes, the Model 58TP can get the job done.

Available on USB drive or by download.

System requirements:

- Windows 7 or higher operating systems
- USB 2.0 port required for USB Programming Module (see below)

✓ **CPR – any resolution from 1 to 65,536**

That's 262,144 counts using 4x quadrature counting

✓ **Waveform – choose from 32 options**

See previous page for waveform choices

✓ **Output type – 6 different output types**

All output types are 5V to 30V in/out except H5 Line Driver and P5 Push-Pull output types, which are 5-30VDC in and 5VDC out



USB PROGRAMMING KIT
 Kit includes Field Programming Software, USB Programming Module, and 2-meter Interface Cable with specified connector. See Accessories for individual Interface Cables.



Model 58TP with SE Flex Mount assembled with programming accessories



Interface Cable
 USB Programming Module (black)
 USB drive for Field Programming Software (blue)

CONNECTOR TYPE	ITEM #
7-pin MS	PR1-001-07
10-pin MS	PR1-001-10
5-pin M12	PR1-001-J
8-pin M12	PR1-001-K
9-pin D-Sub	PR1-001-09
Gland Cable	PR1-001-G
12-pin M23	PR1-001-R

EPC RESERVES THE RIGHT TO UPDATE, REVISE AND AMEND ALL SOFTWARE AND TECHNICAL DATA OR CONTENT AT ANY TIME. EPC SHALL HAVE NO LIABILITY OF ANY KIND OR NATURE FOR ANY TECHNICAL ERRORS OR OMISSIONS IN ANY SOFTWARE OR TECHNICAL DATA. See encoder.com for more information.