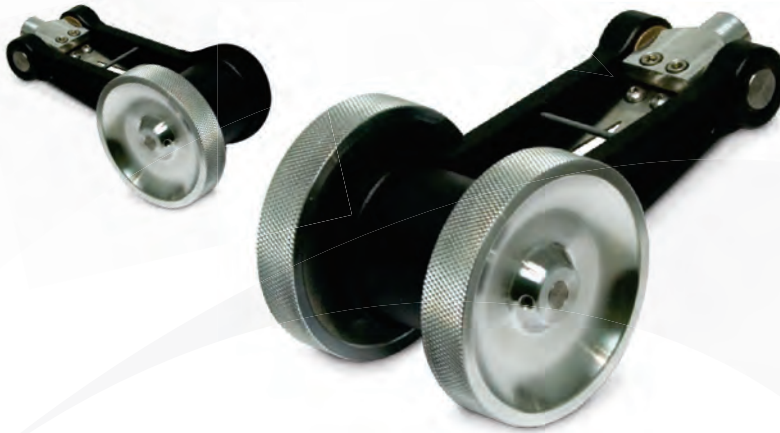


TR3 Heavy Duty Tru-Trac™

Encoder and Spring Loaded Measuring Wheel

Mount Options



Mounting
Bracket



Double
Wheel
Pivot

An integrated heavy duty encoder and spring loaded measuring wheel assembly all in one, easy-to-use, compact unit. Available in a single, or optional dual-wheel format, the TR3 Heavy Duty Tru-Trac™ is a versatile solution for tracking velocity, position or distance over a wide variety of surfaces in almost any industrial application.

Its spring loaded torsion arm provides a simple-to-adjust torsion load, allowing the TR3 Heavy Duty Tru-Trac™ to be mounted in any orientation, even upside-down. The TR3 Heavy Duty Tru-Trac™ housing is an all metal work horse, specifically designed to take on your toughest application environments at operating speeds up to 3000 feet per minute. Just one look and it's easy to see the TR3 Heavy Duty Tru-Trac™ is the ideal solution for countless applications.

Key Features

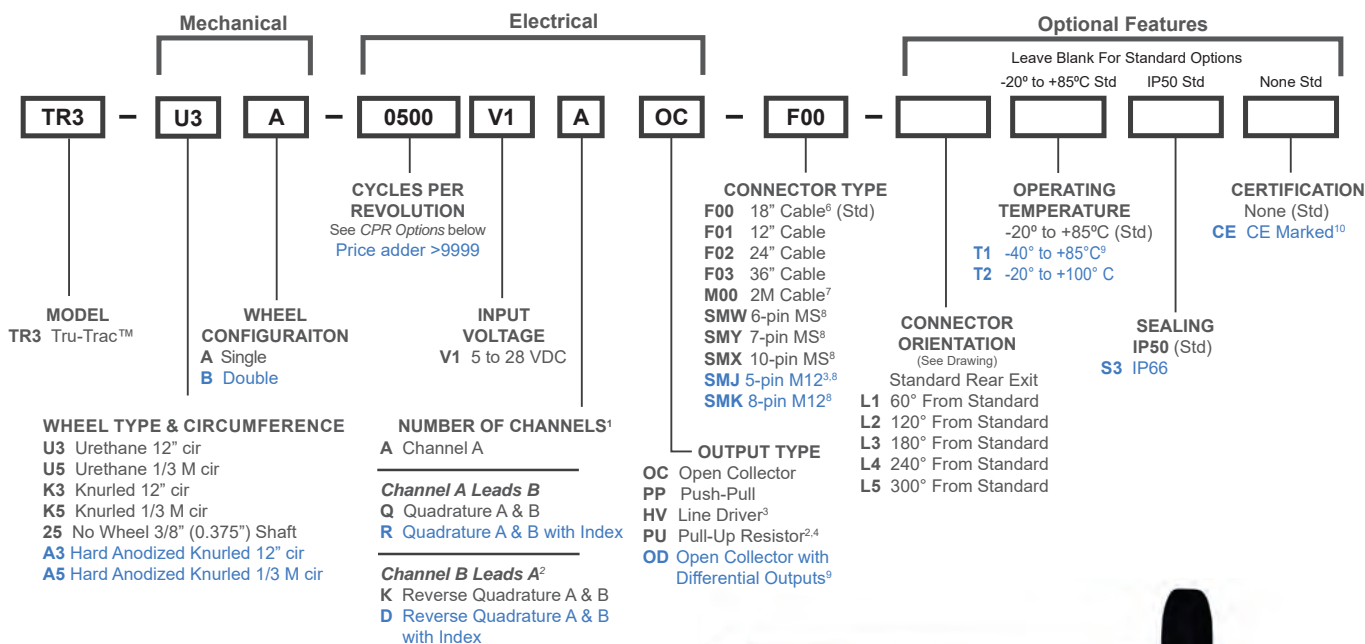
- Heavy Duty Encoder And Measuring Wheel Solution Integrated Into One Industrial Strength Unit
- Spring Loaded Torsion Arm Makes Wheel Pressure Adjustments A Snap
- Easily Installed In A Vertical, Horizontal, or Upside-Down Orientation
- Operates Over A Variety Of Surfaces At Speeds Up To 3000 Feet Per Minute
- Integrated Module Simplifies Your System Design, Reducing Cost

Applications

- Lumber
- Corrugated
- Converting
- Metal Roll Forming
- Paper Monitoring
- Glue Dispensing
- Linear Material Monitoring
- Conveyor Systems
- Printing
- Labelling
- Mining
- Construction

Ordering Information

Blue type indicates price adder options. Not all configuration combinations may be available.



Model TR3 - Tru-Trac™ CPR Options:

0001 thru	0189*	0198	0200	0250
0256	0300	0315	0360	0400
0500	0512	0580	0600	0750
0800	1000	1024	1125	1200
1250	1500	1800	2000	2048
2500	2540	3000	3600	4000
4096	5000	6000	7200	8192
10,000				

*Contact Us For Availability

New CPR values are periodically added to those listed. Contact us to determine all currently available values. Special disk resolutions are available upon request and may be subject to a one-time NRE fee.

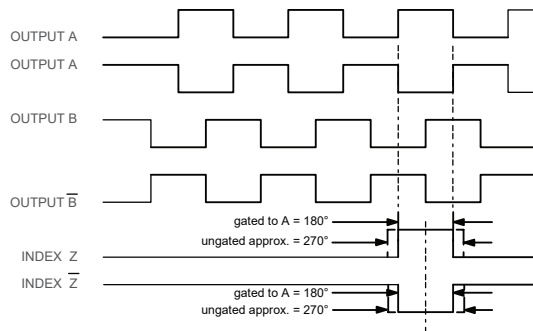
Optional accessory Mounting Bracket (Stock #176389-01) for TR3 Heavy Duty Tru-Trac™ can be ordered separately.

NOTES:

- 1 Contact Customer Service for non-standard index gating or phase relationship options.
- 2 Reverse Quadrature not available with Pull-Up Resistor Output Type.
- 3 Line Driver not available with 5-pin M12 connector.
- 4 With Input Voltage above 16 VDC, operating temperature is limited to 85° C.
- 5 For mating connectors, cables, and cordsets visit www.encoder.com. For Connector Pin Configuration Diagrams visit www.encoder.com.
- 6 For non-standard English cable lengths enter 'F' plus cable length expressed in feet.
Example: F06 = 6 feet of cable. Frequency above 300 kHz standard cable lengths only.
- 7 For non-standard metric cable lengths enter 'M' plus cable length expressed in meters.
Example: M06 = 6 meters of cable.
- 8 Body Mount connector options only available with connector orientation L1 thru L5.
- 9 Rated to -40° C during encoder operation. Storage and startup below -25° C not recommended.
- 10 Please refer to **Technical Bulletin TB100: When to Choose the CE Mark** at www.encoder.com

Waveform Diagrams

INCREMENTAL SIGNALS



CLOCKWISE ROTATION AS VIEWED FROM THE SINGLE WHEEL SIDE

NOTE: ALL DEGREE REFERENCES ARE ELECTRICAL DEGREES
WAVEFORM SHOWN WITH OPTIMAL COMPLEMENTARY SIGNALS
A, B, Z FOR HV AND OD OUTPUTS ONLY

Wiring Table

For EPC-supplied mating cables, refer to wiring table provided with cable.

Function	Gland Cable [†] Wire Color	5-pin M12**	8-pin M12**	10-pin MS	7-pin MS HV, OD	7-pin MS PU, PP, OC	6-pin MS PU, PP, OC
Com	Black	3	7	F	F	F	A, F
+VDC	White	1	2	D	D	D	B
A	Brown	4	1	A	A	A	D
A'	Yellow	--	3	H	C	--	--
B	Red	2	4	B	B	B	E
B'	Green	--	5	I	E	--	--
Z	Orange	5	6	C	--	C	C
Z'	Blue	--	8	J	--	--	--
Case	--	--	--	G	G	G	--
Shield	Bare*	--	--	--	--	--	--

*CE Option: Cable shield (bare wire) is connected to internal case.

†Standard cable is 24 AWG conductors with foil and braid shield.

**CE Option: Use cable cordset with shield connected to M12 connector coupling nut.

