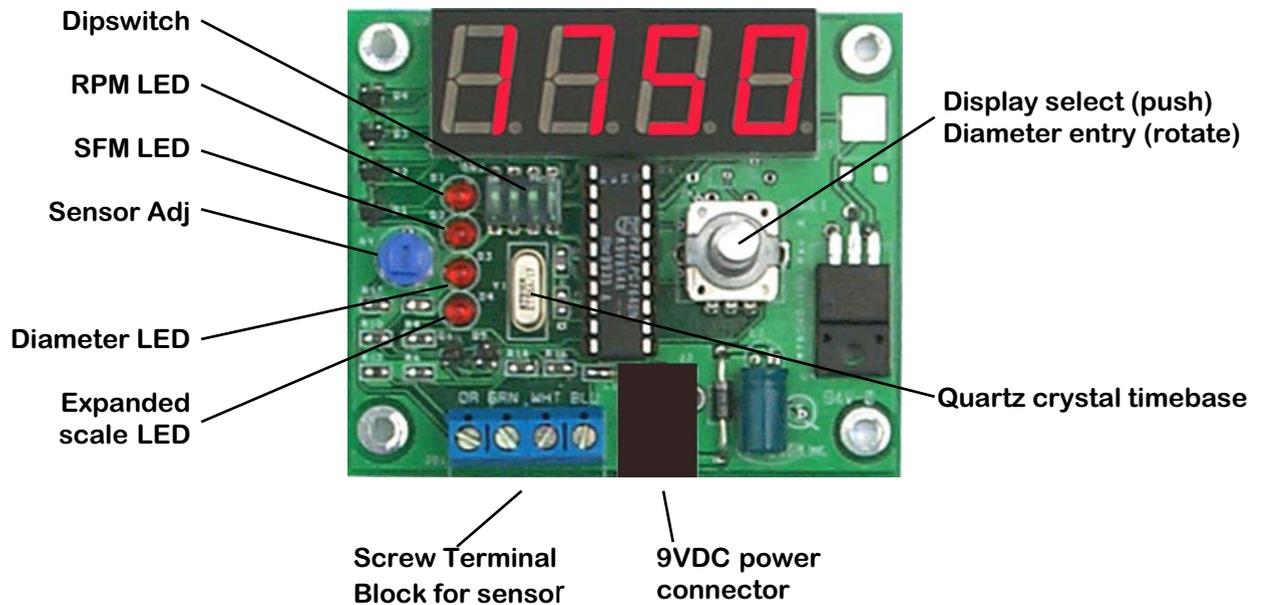


TACHULATOR MODULE



Applications:

- Machine tools- lathes, milling machines
- Wood tools- lathes, routers
- Conveyors
- Mixers
- Peristaltic pumps

Features:

- **Period counting for fast updates even at slow RPM inputs**
- **Calculates SFM from RPM and entered diameter**
- Cutter or work diameter from 0.01" to 99.99"
- **Low power consumption- 50mA typically at 9-12VDC**
- Bright attractive 4 digit 0.56" high display with decimal points
- Sensor contains light source- will work in complete darkness
- Crystal timebase for high accuracy and stability
- **Professional quality conservative design and manufacturing**
- **Screw terminal block for sensor connection.**
- **Usable with multiple sensor heads using a DPDT or 2-pole multiple-position switch**

Specifications:

Resolution:	1RPM
Accuracy:	+/- 1RPM
Range:	50-9999 RPM with 1 pulse/rev 5-9999 RPM with 10 pulses/rev 3-9999 RPM with 16 pulses/rev
Focus Distance:	0.150" (3.81mm)
Light source:	Internal IR LED
Diameter setting:	0-99.99"
SFM display:	0-9999 SFM
Power supply:	DC 9V-12V @ 50mA typ.
Operating temperature:	0-55°C (20-130°F)
Humidity:	10-90% non-condensing
Size:	2.9" w x 2.45" h x 0.75" d (d not including shaft length)

Ordering Info:

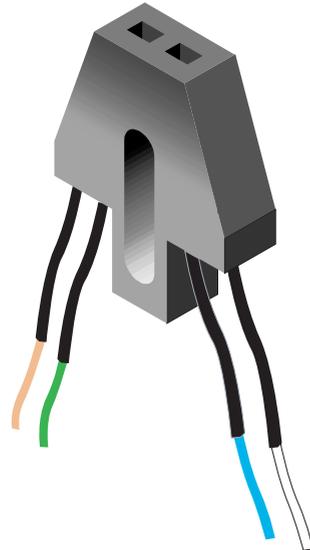
Part number: MTACHO-100



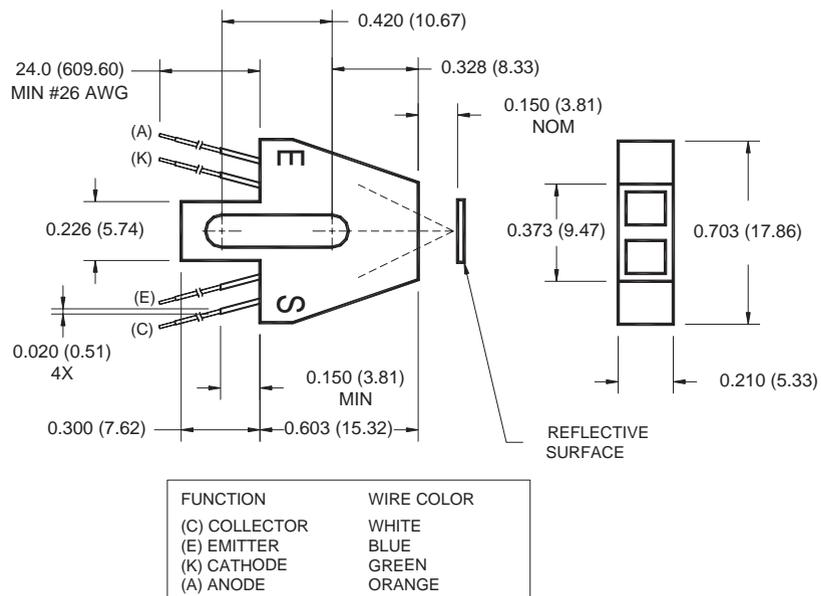
manufactured by Trexon Inc.
sales@trexon.com
<http://www.trexon.com>

Represented by:

Optical Pickup:



Note: Actual lead length is 24" (600mm)



Operation:

With power applied the Tachulator will show “----” for a short period of time when power is first applied. The top LED, indicating RPM, will light. After a couple of seconds it will then display the speed or “0”.

Pushing on the shaft will cycle the LEDs from:

- Top: RPM
- 2nd: SFM (will read zero until diameter has been entered)
- 3rd: Diameter (allows entry of diameter of cutter or lathe workpiece)

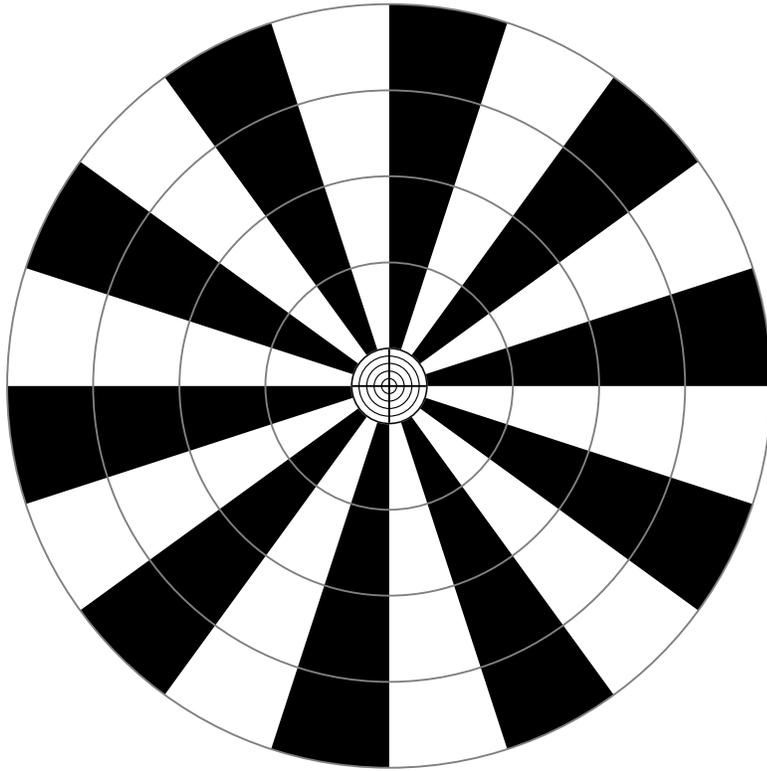
The bottom LED is used to indicate “expanded scale” operation, explained below.

To enter the Diameter, push the knob until the 3rd LED from the top is lit. Turn the knob to set the diameter in the display. Push the knob once to advance the display to RPM, and again if you wish to display SFM.

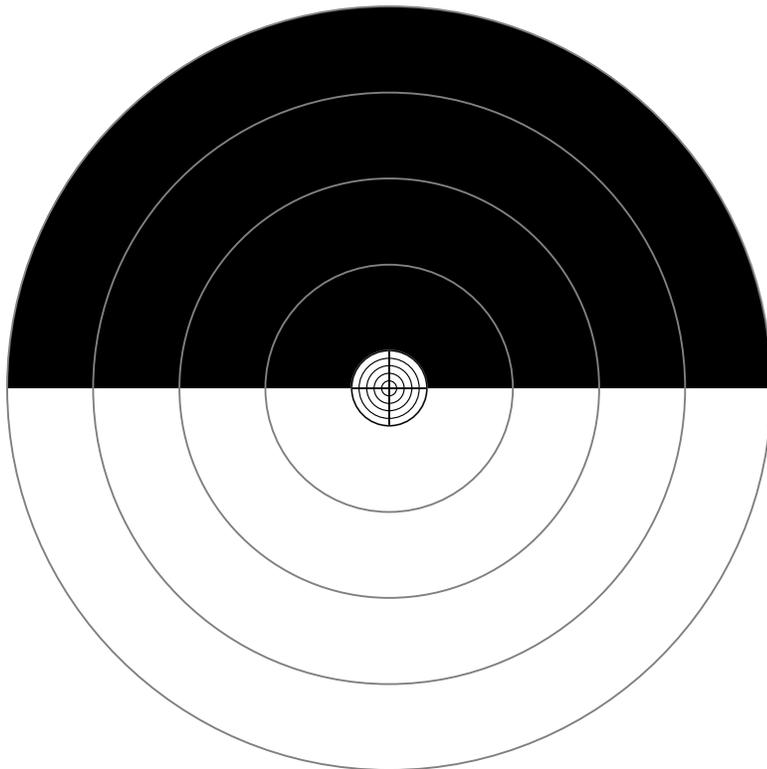
Expanded Scale: The Tachulator attempts to use whole rotations of the disk to measure RPM. When there are multiple marks, and the RPMs are low, it will automatically switch to using fewer than one rotation as set on the DIPSWITCH. In this mode there may be a bit more jitter in the reading if the disk is not centered in relation to the shaft. The bottom LED lights to indicate tht the expanded scale mode is in use.

DIPSWITCH Settings:

Marks	Switch	Marks	Switch
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	
8		16	



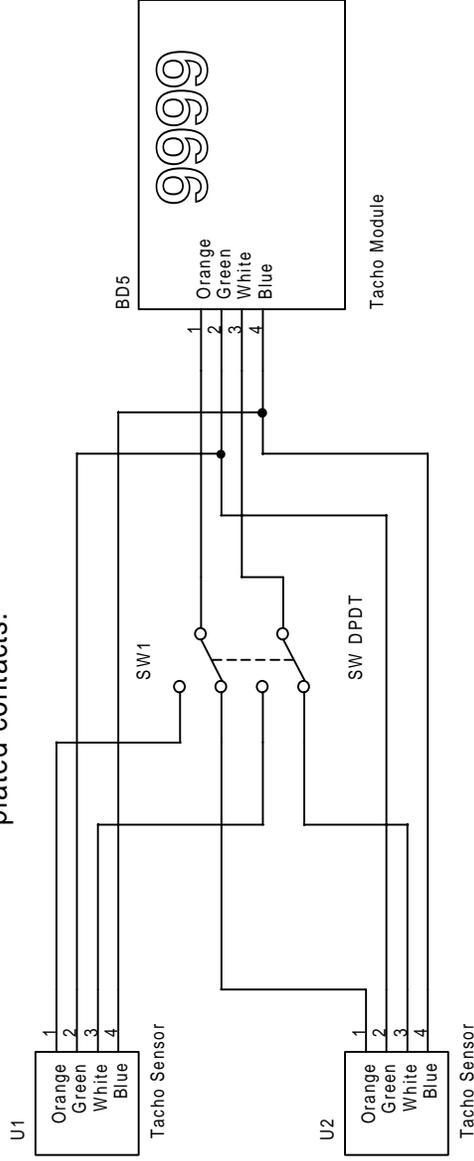
Tachulator Encoder V1.0 10 marks



Tachulator Encoder V1.0 1 mark



Switch is a miniature DPDT toggle switch with gold-plated contacts.



Title		Tacho Module Dual Sensor	
Size	A	Document Number	SPTACH-102
Date:		Wednesday, January 09, 2002	Sheet 1 of 1