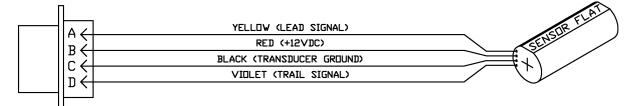
VISI-TRAK SENSOR INSTALLATION AND ALIGNMENT GUIDE

CAUTION:

The transducer has internal "sensing heads" which generate independent output signals, so it is important that the flat edge is positioned properly.

Overtightening of the set screw will result in damage to the sensing heads and the transducer will no longer function. Additionally, "floating" a sensor by not tightening the set screws according to the instructions above, may cause the sensor to loose gapping or damage the sensor face due to excessive rod vibration or whipping.

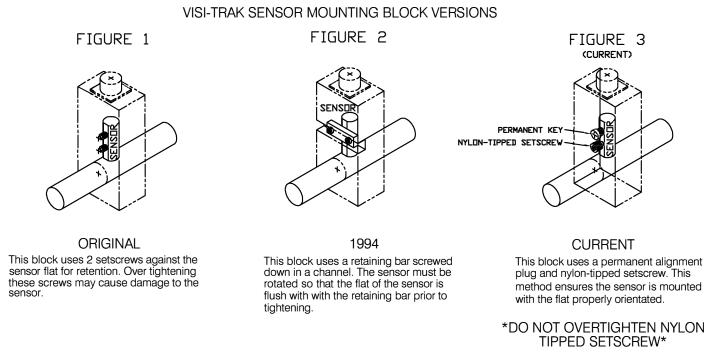
SENSOR WIRING:



INSTALLATION INSTRUCTIONS:

The transducer has already been pre-tested at the factory and a small sticker should be located on the face. This sticker provides the recommended gapping distance between the rod and the transducer. Any tape located on the sides of the transducer body may prevent proper insertion of the transducer into the transducer mounting block due to the close tolerances that exist.

Carefully insert the sensor into the proper hole of the transducer mounting block and rotate until the flat edge of the sensor lines up with the permanent alignment key and insert the sensor until it touches the rod. Once in contact with the rod and the flat edge of the sensor is perpendicular to the direction of motion, hold the sensor in place and tighten the nylon tip set screw as shown in figure 3. Figure 1 and Figure 2 are previous mounting arrangement and should insert sensor according to the appropriate configuration.





A49-VT RUGGED, EXTENDED-GAP TRANSDUCERS WITH AUTO CALIBRATION

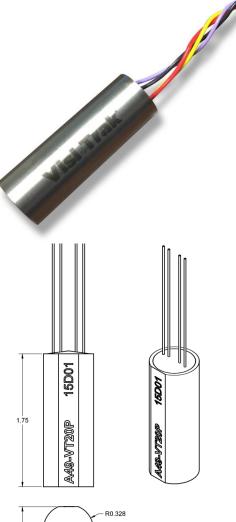
Visi-Trak Worldwide delivers an industry-leading family of linear encoder transducers designed for reliable contactless monitoring in harsh environments. These transducers provide calibration-free installation while superior gapping allows glitch-free operation on imperfect or worn measuring targets. Whether a new installation or a retrofit, the A49-VT line is engineered to perform and designed to last.

The transducer is encased in a non-ferrous, stainless-steel housing and utilizes a magnetic field to detect movement of a threaded steel rod made smooth by chrome plating. These movements, indicating target speed and direction, are quadrature encoded and transferred over a two-wire interface where a decoder computes instantaneous speed and direction using the known target thread pitch. This information provides valuable feedback for a variety of monitor and adaptive control applications. Visi-Trak offers four transducer models designed to work with commonly available pitch widths. For best performance, use Visi-Trak measurement rods and mounting hardware.

Model	Pitch	Resolution	Max Gapping
A49-VT20P	0.05"	0.0125"	0.020" (0.51mm)
A49-VT10P	0.1"	0.025"	0.040" (1.02mm)
A49-VT1MM	1mm	0.25mm	0.015" (0.38mm)
A49-VT2MM	2mm	0.5mm	0.035" (0.89mm)
pitch			ch 🔸
12V [*] Leading Channel 0V			
Trailing Channe	2V [*] H DV		

* Outputs may be pulled externally to 24V. Contact Visi-Trak for details.

8400 Sweet Valley Dr., Ste. 406 Valley View, OH 44125 USA



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Sensor Specifications

Supply Voltage	12V ± 10%	
Supply Current	28mA Typ. (50mA Max)	
Linear Speed	500 IPS Max	
Operating Temp.	-40°C to 85°C	
Output Waveform	50% Duty Quadrature	
Red Wire	Supply Voltage	
Black Wire	Ground	
Yellow Wire	Leading Channel	
Purple Wire	Trailing Channel	