

# Installation Magnetic Encoder to BiSlide®

Instructions to install ELGO Magnetic Linear Encoder on to Velmex BiSlide®

## Supplies Required:

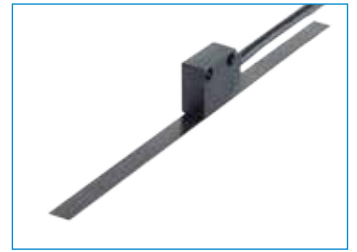
- Elgo Magnetic Linear Encoder
- Velmex BiSlide
- Two 6-32 x 3/8 pan head screws (included hardware)
- Two 6-32 x 3/8 SHCS (included hardware)
- Isopropyl alcohol
- Super Glue®

## Installation Instructions Refer to Diagram 1

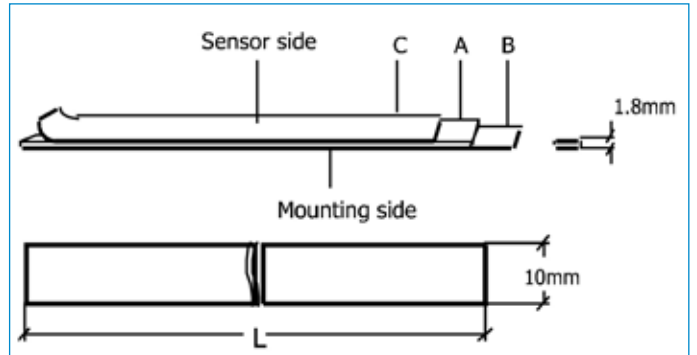
1. Attach reading head sensor to reading head bracket using 6-32 x 5/8 SHCS, provided.
2. Mount reading head bracket to the side of the BiSlide carriage using 6-32 x 3/8 pan head screws, provided.
3. Carefully lay the BiSlide unit on its side without damaging the limit switches.
4. Move/run carriage down to end of BiSlide with yellow bushing until it reaches the limit and stops.
5. To attach Magnetic Flexible Tape (A / B): Lay the magnetic tape (A / B) down on the 2nd rib down from top of BiSlide body underneath the reading head bracket with it extending 1/4" past the sensor.
6. Mark the BiSlide rib at both ends of the magnetic tape.
7. Remove reader head bracket.
8. Clean rib with Isopropyl alcohol without removing marks.
9. At both ends of the rib where the marks are, put a small drop of Super Glue.
10. At one end, peel back one inch or more of sticky tape backing.
11. Start by pressing end of magnetic tape down at the mark keeping it centered on the rib. *This is important so that sensor will read properly.*
12. Continue peeling tape backing as you push down and work your way toward the motor end of the BiSlide unit.
13. Hold down the magnetic tape at both ends for 30 seconds.
14. To attach Magnetic Permeable Steel Tape (C): Repeat steps 8-13, except wipe magnetic tape (A / B now attached to the BiSlide) with Isopropyl alcohol and put the small drop of glue on the magnetic tape (A/B) at the ends.
15. Attach reader head bracket, and reading head sensor using screws provided, leaving screws loose on sensor.
16. Using a piece of shim stock .012 - .017 to properly gap the distance between magnetic tape and reading head sensor. This gap must be correct for optimum performance.



Velmex Motor-driven BiSlide



ELGO Magnetic Linear Encoder



**DIAGRAM 1**

Encoder Magnetic Tape Layers



Attach sensor to reading head bracket. (1)



Mount reading head to side of BiSlide carriage. (2)



Carefully turn the BiSlide on its side.



Press the strip down keeping it centered on the rib. (11)

**NOTE:** Once sticky tape and magnetic tape are applied they cannot be removed and repositioned, so make sure they are properly installed the first time. Two people may be required for longer applications.



Positioning Systems for Science and Industry

Velmex, Inc.  
7550 State Routes 5 & 20  
Bloomfield, NY 14469-9389

TF: 1.800.642.6446  
P: +1.585.657.6151  
F: +1.585.657.6153

www.velmex.com  
info@velmex.com