Lynx™ 50” Stroke-Velocity Encoder - LE-R-50

The LE-R-50 is a molding machine mountable linear position/velocity sensor designed to be used with the *eDART* System™. The Stroke-Velocity Encoder can be used to monitor standard screw position and speed on most injection molding machines.

See Figure 16 for relevant mounting information.

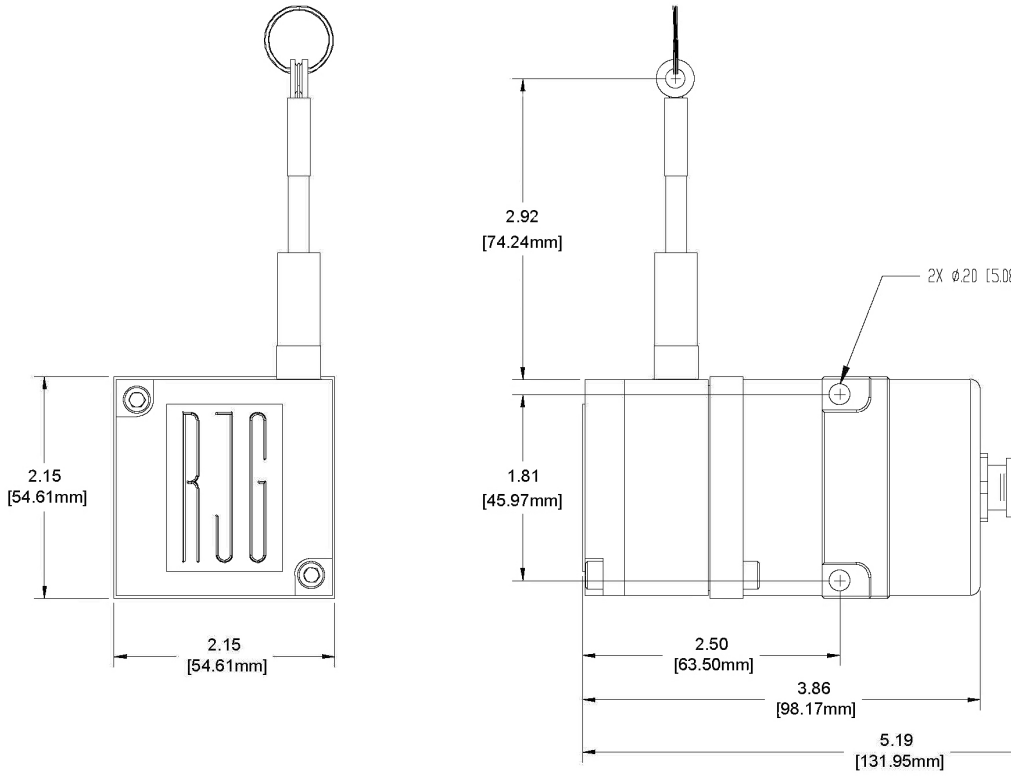

Figure 16: Stroke-Velocity Encoder dimensional drawing

Technical Specifications	
Power (supplied by *eDART*™)	12VDC
Current Draw	65mA

Stroke-Velocity Encoder technical specifications

LE-R-50 Installation Instructions

The preferred method of mounting the stroke sensor is to mount it on the injection unit sled near the back of the injection unit. See Figure 17. The sensor will then detect the movement of the screw, but not the movement of the sled.

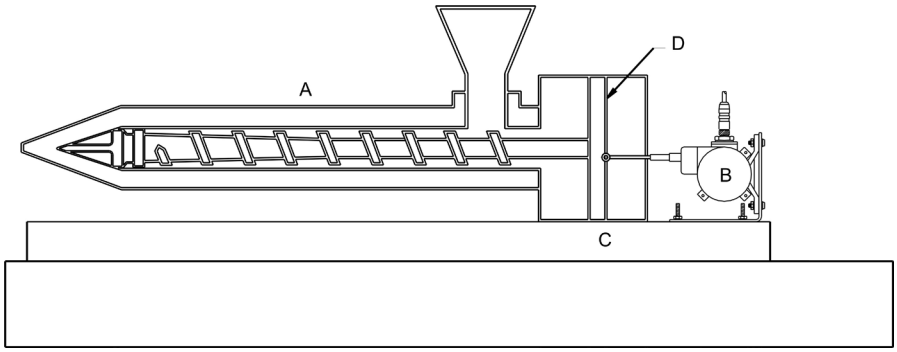

Figure 17: Stroke-Velocity Encoder mounting option 1

A	Machine Injection Unit
B	LE-R-50 Stroke Encoder
C	Injection Unit Sled
D	Injection Cylinder

Figure Labels

Take special care when installing the stroke sensor so the cable enters the nylon cable bushing straight to eliminate wear on the cable. (Reference Figure 20)

Another method of mounting the stroke sensor is to mount it on the molding machine near the back injection unit sled. The method should be used as a last resort because the sensor will detect the movement of the screw but also the movement of the sled. Another drawback is the loss of some of the usable length.

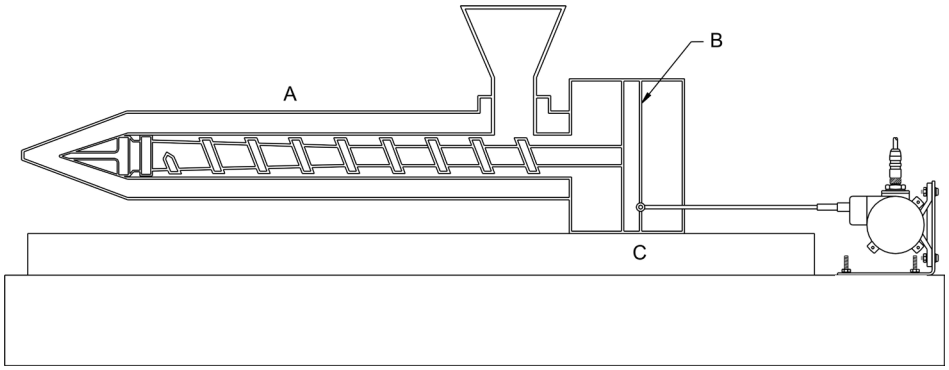

Figure 18: Stoke-Velocity Encoder mounting option 2

A	Machine Injection Unit
B	Injection Cylinder
C	Injection Unit Sled

Figure Labels

The stroke sensor can also be mounted on the injection unit sled near the front of the injection unit. It will then detect the movement of the screw but not the movement of the sled. This method should be used as a last resort because of heat. Care must be taken to keep the sensor at least 6-8” away from the barrel heaters.

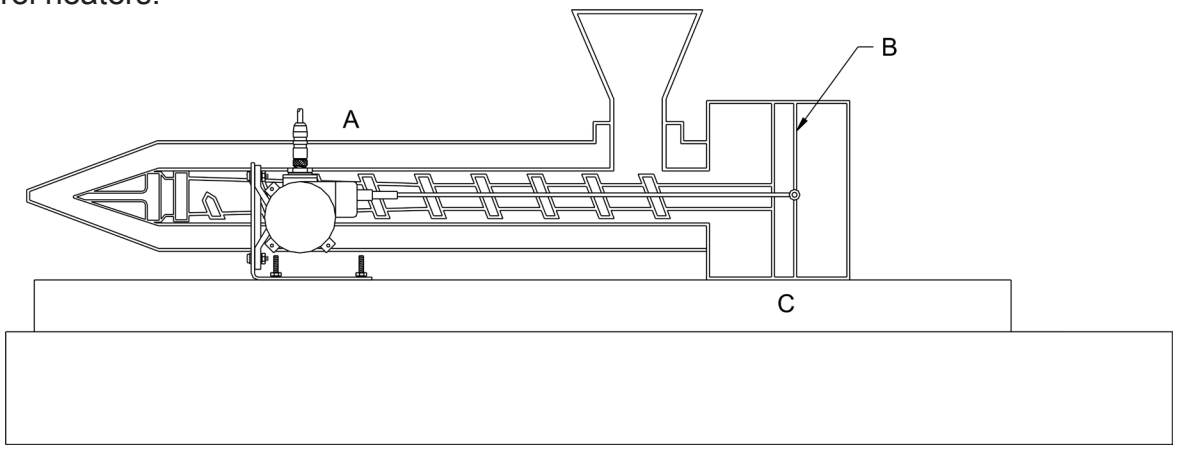

Figure 19: Stroke-Velocity Encoder mounting option 3

A	Machine Injection Unit
B	Injection Cylinder
C	Injection Unit Sled

Figure Labels

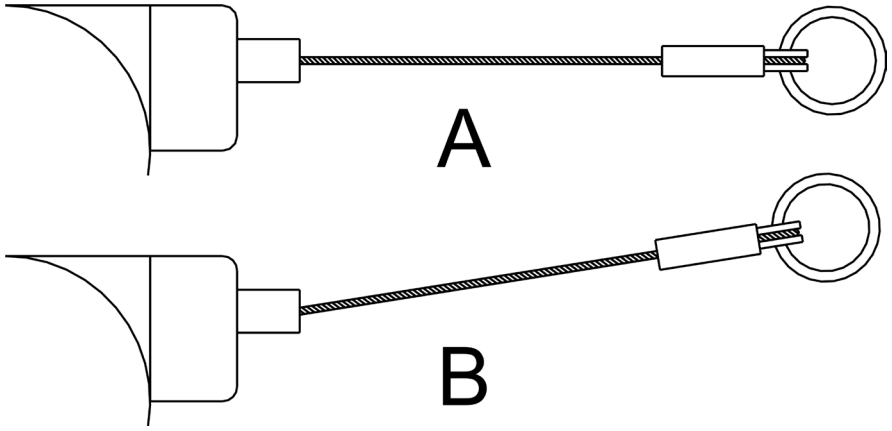

Figure 20: Stroke-Velocity Encoder mounting cable caution

A	Acceptable
B	Unacceptable

Figure Labels