

## Lynx™ 30” Stroke-Velocity Encoder - LE-R-30

The LE-R-30 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.

The stroke sensor can be mounted temporarily using the supplied magnets to position the sensor correctly. The magnets can then be removed to permanently mount the sensor on the machine. See Figure 16 for relevant mounting information.



**Always power down before working on any equipment.**

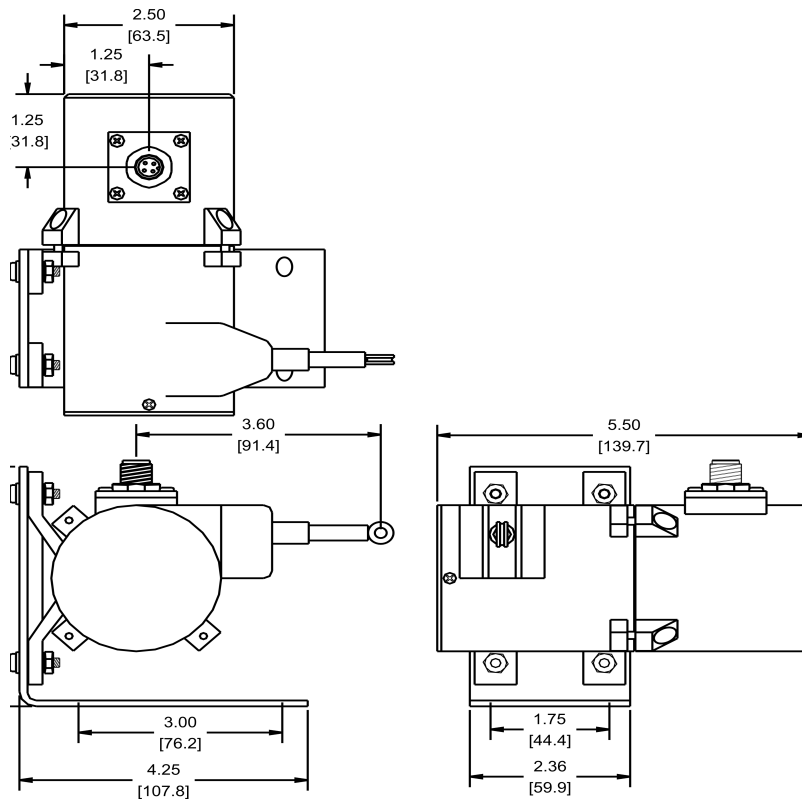


Figure 16: Stroke-Velocity Encoder dimensional drawing

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

Table 18: Stroke-Velocity Encoder technical specifications

## LE-R-30 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.



**Make sure the stroke sensor is bound firmly to the machine and the machine is properly grounded. Also, make sure that all cables are wired away from any sources of static such as material feeds lines.**

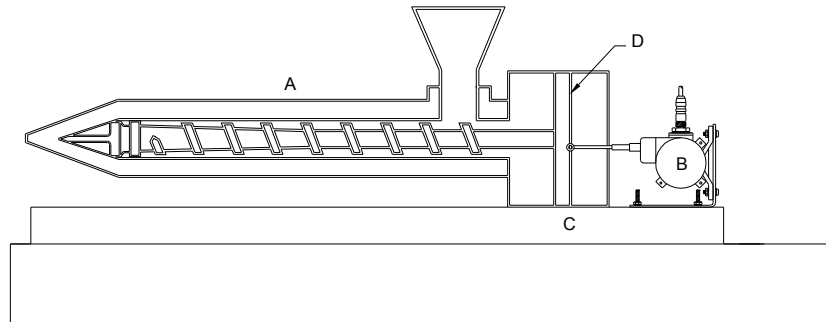


Figure 17: Stroke-Velocity Encoder mounting option 1

<b>A</b>	Machine Injection Unit
<b>B</b>	LE-R-30 Stroke Encoder
<b>C</b>	Injection Unit Sled
<b>D</b>	Injection Cylinder

Table 19: 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.

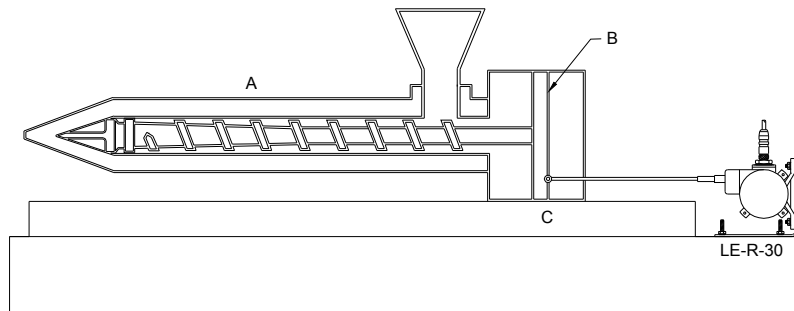


Figure 18: Stroke-Velocity Encoder mounting option 2

<b>A</b>	Machine Injection Unit
<b>B</b>	Injection Cylinder
<b>C</b>	Injection Unit Sled

Table 20: 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.

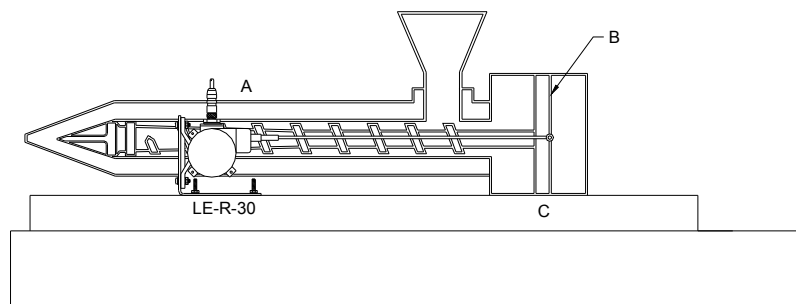


Figure 19: Stroke-Velocity Encoder mounting option 3

<b>A</b>	Machine Injection Unit
<b>B</b>	Injection Cylinder
<b>C</b>	Injection Unit Sled

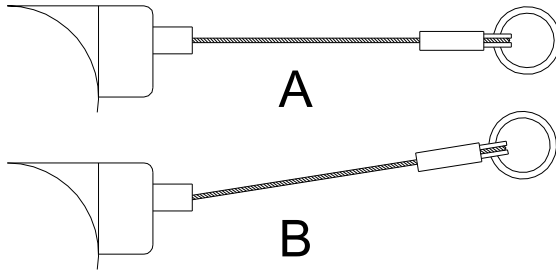


Figure 20: Stroke-Velocity Encoder mounting cable caution

<b>A</b>	Acceptable
<b>B</b>	Unacceptable

Table 21: Figure Labels