

## OVERVIEW

Bray's linear position sensor provides precise, continuous position monitoring through the full stroke of a linear actuator. It is designed for seamless integration with Bray's Knife Gate pneumatic actuator and can be easily retrofitted in the field.

## HOW IT WORKS

The sensor operates via a cable actuated mechanism attached to the actuator's piston head. It detects the rotation of the draw cable through a contactless sensor system, which then calculates the linear travel and outputs the data as an analog current or voltage signal.

## SPECIFICATIONS

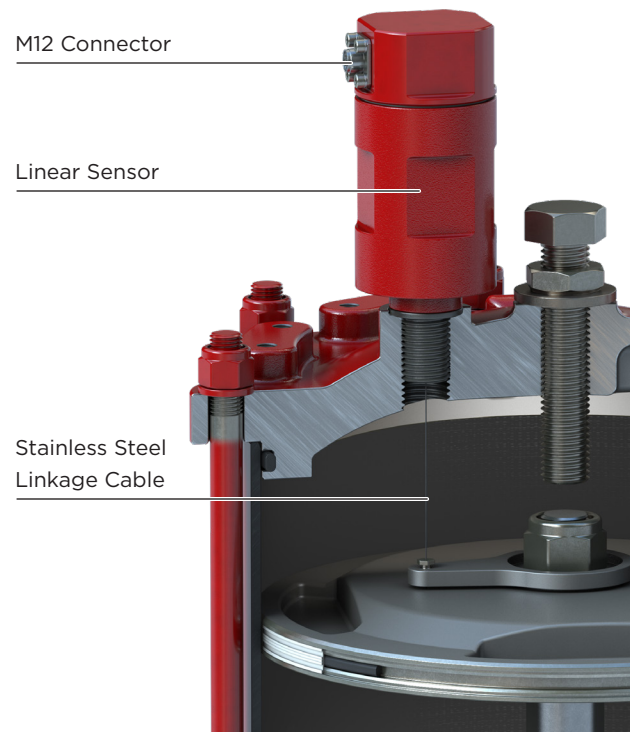
<b>Power Supply Range</b>	12V DC to 32V DC
<b>Recommend<sup>1</sup></b>	> 24VDC standard > 110/120VAC is optional using external power supply
<b>Operating Temp Range</b>	-40°C to 85°C   -40°F to 185°F
<b>Analog Output</b>	> 4 to 20 mA DC > 0 to 20 mA DC is optional
<b>Applications</b>	> On / Off > Modulating
<b>Linear Tolerance</b>	± 0.5%
<b>Enclosure</b>	Carbon Steel
<b>Enclosure Rating</b>	IP67

### NOTES:

- 1 The external power supply will be sourced from third party.

## FEATURES AND BENEFITS

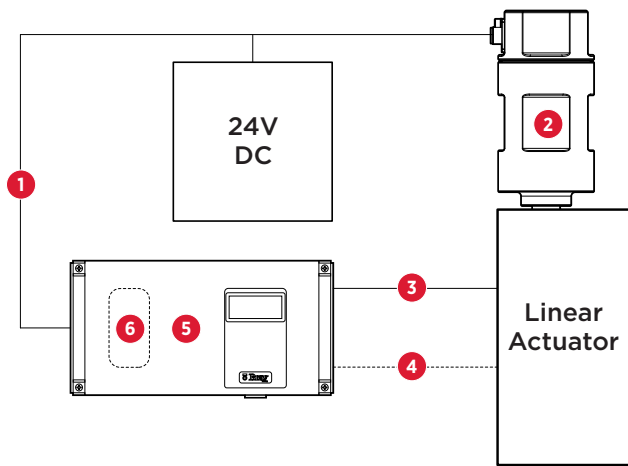
- 1 **LEVERLESS:** Integrated sensor eliminates the need for traditional linkage devices.
- 2 **DURABLE AND ROBUST:** Housing constructed with carbon steel with epoxy-based polyurethane coating.
- 3 **REDUCED WIRING:** Simple wiring scheme is easier to maintain compared to traditional discrete switches.
- 4 **PLUG AND PLAY:** Connects effortlessly via M12 connector.
- 5 **PROTECTED FROM HOSTILE ENVIRONMENTS:** Fully encapsulated electronic components ensure long-term reliability and performance.
- 6 **RELIABLE AND STABLE:** Designed to withstand high vibration and shock, with no loss of position on power down.
- 7 **FAST AND EASY INSTALLATION:** Easily field retrofittable, and quick and easy installation on existing or legacy Bray linear actuator.



**ELEVATE YOUR CONTROL WITH S6A AND  
INTEGRATED LINEAR SENSOR.**

The linear sensor effortlessly connects with Bray's Series 6A smart positioner, relieving the positioner from the need for conventional mechanical linkages that are vulnerable to environmental conditions for valve position detection.

This design offers greater flexibility by enabling the S6A positioner to be mounted separately from the valve. Stroke measurement is performed directly on the actuator utilizing the linear sensor. As a result, the positioner can be positioned away from the valve and actuator, with connections made electrically through cables and pneumatically via tubes or pipes.



- 1 Electric cable
- 2 KCA Linear Sensor
- 3 Pneumatic Connection
- 4 Pneumatic Connection for double-acting actuators
- 5 Series 6A
- 6 Retrofitted AIM Module (in device)

