

ALD3E Series Electronic-Actuator Position (PNP Normally Open) Sensor Instructions

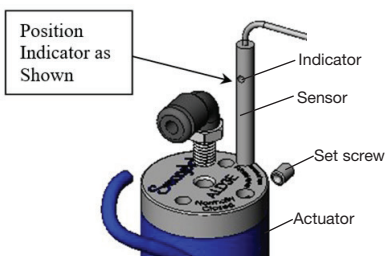
This instruction is for the installation and setting of a PNP normally open electronic-actuator position sensor on a normally closed ALD3E series actuator/valve assembly.

⚠ WARNING

Before installing the sensor, to avoid personal injury, you must:

- **Depressurize the system**
- **Cycle the valve**
- **Purge the system to remove any residual system media left in the valve.**

1. Ensure the valve is in the open position by applying 80 psig (5.5 bar) to the **actuator**.
2. Connect the **sensor** to 24 V (dc). Advance the sensor into the actuator until the **indicator** comes on.
3. Move the sensor up and down slightly to confirm indicator on/off location.



4. Advance the sensor.
 - 0.002 +/- 0.0005 in. (0.051 +/- 0.0127 mm) for low flow
 - 0.005 +/- 0.0005 in. (0.127 +/- 0.0127 mm) for standard flow
5. Using a 1/6 in. (or 1.5 mm) hex key, torque the **set screw** to 32 +/- 3 oz-in. (2.3 +/- 0.22 kg-cm) to secure the sensor.

NOTICE

Do not overtighten the sensor assembly. Damage to the sensor could result.

6. Cycle the actuator at the following actuator pressures, in the order listed, to confirm proper indicator function:
 - 80 ± 3 psig (5.5 ± 0.20 bar)
 - 100 ± 3 psig (6.8 ± 0.20 bar)
 - 60 ± 3 psig (4.1 ± 0.20 bar)
7. Cycle the actuator at an actuator pressure of 48 to 49 psig (3.3 to 3.4 bar) to confirm the sensor indicator remains off.
8. Repeat steps 1 through 7 until the sensor indicator remains off at 48 psig (3.3 bar).