

Cyclops™ Exp

PLUNGER ARRIVAL SENSOR



INSTALLATION GUIDE

Tools Required

- 5/16" (8mm) nut driver
- Wire strippers
- 1/2" NPT connector and appropriate cable

Parts Supplied In Package

- Cyclops™ Exp plunger arrival sensor
- 2 hose clamps
- Control drawing
- Installation guide
- ETC screwdriver

Installation

- Twist enclosure lid counter clockwise to remove.
- Screw connector clockwise onto 1/2" NPT port on Cyclops™ enclosure.
- Securely fasten Cyclops™ to lubricator by tightening hose clamps around enclosure ports at top and bottom using 5/16" (8mm) nut driver.
- Measure and strip cable wires.
- Feed wires into sensor enclosure through connector.
- Terminate wires for power and signal to 3-pin connector inside Cyclops™ enclosure. (FIG. A)

FIG. A

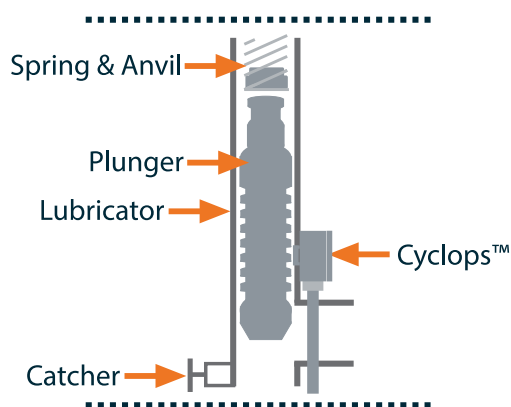
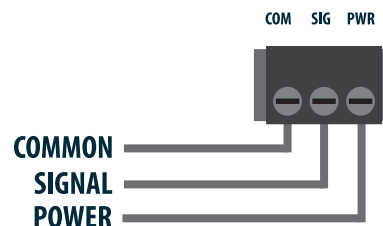


FIG. B - Recommended mounting location for ferrous plunger types

- Tighten cable end of connector clockwise to secure cable.
- Prior to powering Cyclops™, set sensitivity switch to desired setting using ETC screwdriver.
- Test Cyclops™ by cycling plunger. Ensure any tools (such as screwdrivers) are out of range; most are ferrous, and may cause Cyclops™ to false trip.
- Ensure Cyclops™ is OFF (during Close or Afterflow on ETC controllers) before making adjustments.
- Replace enclosure lid by twisting clockwise and tightening.

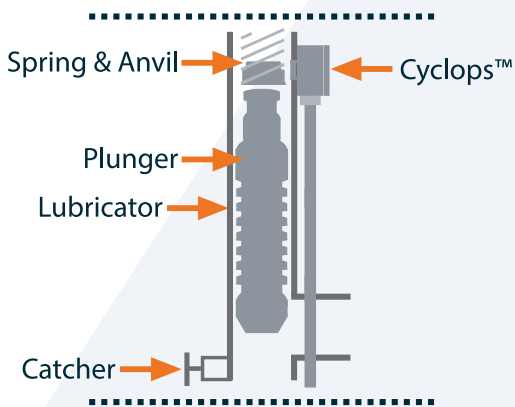


FIG. C - Recommended mounting location for non-ferrous plunger types

Mounting Location

The ideal mounting location for Cyclops™ depends on the type of plunger being used. When using a ferrous (*magnetic*) plunger material such as steel, Cyclops™ should be mounted as close as possible to where the plunger rests during flow (*sales*) for best results (*Fig. B*). Avoid mounting near the catcher or anvil.

When using a non-ferrous (*non-magnetic*) plunger material such as stainless steel, aluminum, or titanium, Cyclops™ should be mounted where the most amount of movement will occur when the plunger arrives; most commonly near the anvil (*Fig. C*), or at the tip of the trigger rod if applicable.

Sensitivity Switch

Cyclops™ has a built in 7 position sensitivity adjustment dial (*FIG. D*). This allows false detections to be eliminated by reducing sensitivity. Alternatively, sensitivity can be increased to aid in the detection of non-ferrous plungers when minor well movements at the spring and anvil must be detected. The switch is located within the enclosure. Switch position **0** allows for Cyclops™ software to be upgraded. During normal operation, a Cyclops™ sensor left in position **0** will not detect a plunger.

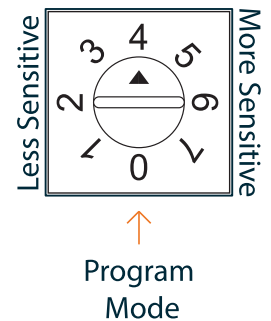


FIG. D- Sensitivity Settings

Visit etcorp.ca/manuals or scan the QR code to download the full product manual.

