Query Enable/Disable from Function

Installation

MANUFACTURED BY PGI INTERNATIONAL

Allows HANDS-ON query feature only while pumping

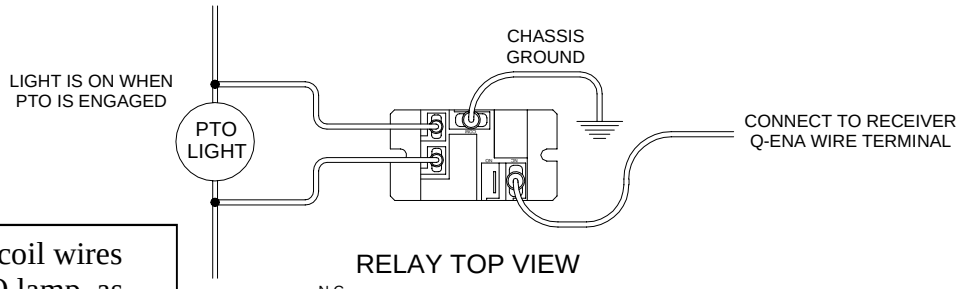
On installations where the query feature is enabled, it may be desirable to allow the truck engine to idle with the parking brake set – but not require the operator to query the receiver with the RSD transmitter. The Q-ENA wire terminal in the RSD receiver can be used to enable the query feature only when the truck is actually delivering product.

Shorting the Q-ENA to ground will disable the query feature. If the Q-ENA terminal is "open" or connected to 12 volts, the query feature is enabled.

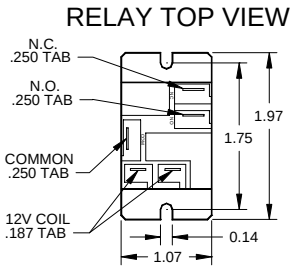
Choose a function that is only active while transferring product. Some examples of functions that may be used to enable/disable the query feature are listed below.

- **An air pressure switch in the internal valve air hose.** The switch should "open" when air pressure is applied to the valve actuator to open the internal valve. Query is enabled only while the internal valve is "open".
- **A limit switch that is activated by the valve or PTO pull cable on cable operated trucks.** When the lever is operated or "pulled" at the rear of the truck, the switch should "open". When the lever is in the valve "closed" or PTO "OFF" position, the switch should be "closed" to disable the query.
- **The PTO or throttle control channels.** If a multi-function receiver, such as the RSD-R6, is used to control PTO and/or throttle, the PTO or throttle channel can be wired directly to the Q-ENA to enable/disable the query on either of those functions.
- **Any electrical event which is active only while transferring product.** For example, an indicator light on the dash for valve "open" or PTO "engaged" could enable the query when the light is 'ON'. Typically, one side of the light is connected to 12 volts and the other side is grounded to turn on the light. If so, a relay must be installed as shown below.

On some installations it may be possible to locate a source that is at 12 volts only while pumping, and grounded when not pumping. If not, then a relay must be used to enable/disable the query feature. The figure below illustrates connections to a PTO indicator lamp that is 'ON' when the PTO is "engaged".



1. Connect the two relay coil wires directly across the PTO lamp, as shown. Polarity is not important.
2. Connect the relay COM to a good chassis ground.
3. Connect the relay N.C. to the RSD Q-ENA wire terminal.



When the lamp is on, the relay will switch, removing the short to chassis ground on the Q-ENA terminal. When the PTO is "engaged" the RSD query feature is enabled. With the PTO light off, the Q-ENA terminal will be shorted to ground through the relay, disabling the query feature.