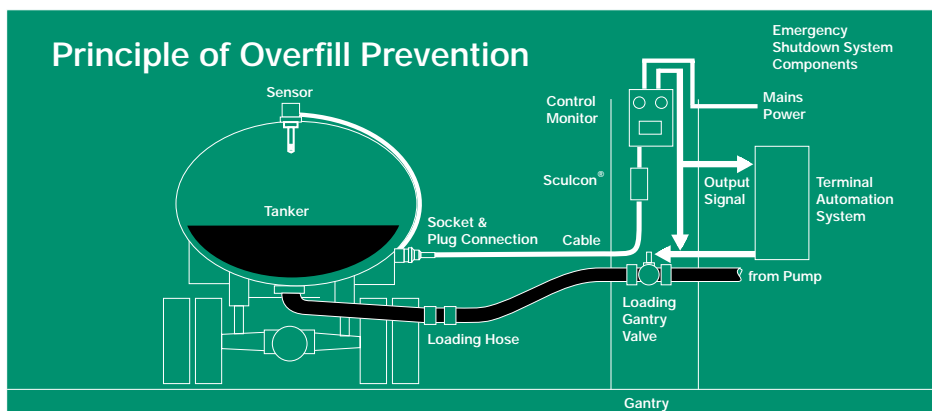


Biclops® III

Multi-Compartment Road Tanker Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry



Description

The Scully Biclops® III is a multi-mode overfill prevention control monitor. It is for use with Scully two-wire optic or thermistor sensors. The Biclops III is mounted at the loading gantry and connects to the vehicle via a Scully Sculcon® plug and cable unit. The Scully Biclops III offers all these advantages:

- Maximum safety with Dynacheck® - automatic and continuous self-checking circuitry
- Complete compatibility with Scully two-wire optic and thermistor sensors
- Monitors from 1 to 8 compartment tank vehicles
- BASEEFA/CENELEC approved
- Solid state circuitry
- Incorporates vehicle earthing
- Signals for automatic shut off of product flow within a half-second of detecting an overfill condition
- Can be used for top or bottom loading tankers
- Easy connection to vehicle using Diagnostic Sculcon or standard Sculcon plug and cable unit

Safety Features

The Biclops III incorporates Scully's unique and exclusive Dynacheck® circuitry. To ensure that the system will always detect an overfill condition, the controller uses pulsed signals which continuously check the entire system operation. The controller, wiring, connections and sensors are checked for faults up to 30 times per second. If a sensor comes in contact with liquid, or in the unlikely event of a system fault, the pulsed signals cease and the controller automatically signals for immediate shutdown of the loading operation. No operator involvement is needed! Shutdown is accomplished by controlling pumps, valves, terminal automation systems, etc...

Redundancy is designed into the output relay circuitry to ensure fail-safe shutdown in the event of failure of one relay with its contacts welded short.

The Biclops III will not permit loading or will shut down loading if an adequate vehicle earthing is not maintained, provided vehicles are wired properly for this feature. The Biclops III control monitor is used with a Scully Sculcon or Diagnostic Sculcon junction box with plug and cable for connection to a vehicle. This provides the appropriate electrical connection to the tanker-mounted sensors via a socket fitted to the vehicle chassis. The Diagnostic Sculcon displays status of each compartment sensor.