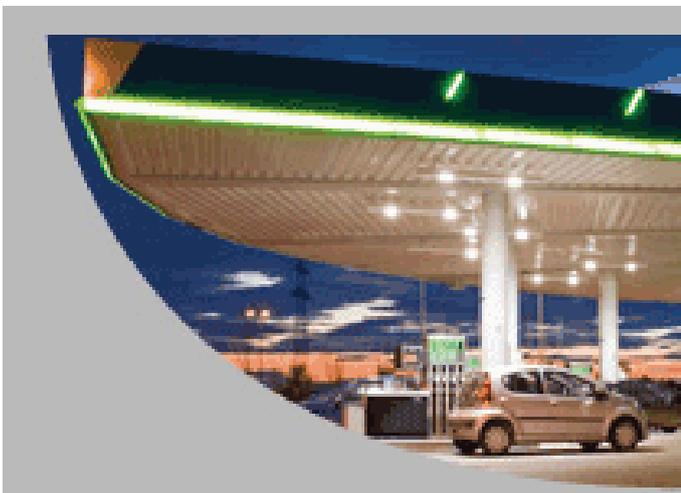


PSS 5000 Forecourt Controller

Feature Description — Theft Protection for Suction Pumps

Benefits

- > Reduces the risk of fuel theft from forecourt dispensers.
- > Easy to implement.
- > Cost-effective solution.
- > Works independently of POS systems, payment systems & brand of dispenser.
- > Cannot be bypassed in dispenser.
- > Works on both manned and unmanned sites.



Features

- > Isolates power to suction pump motors.
- > Controlled by authorization via PSS 5000 Forecourt Controller.
- > Uses existing forecourt dispenser installations.

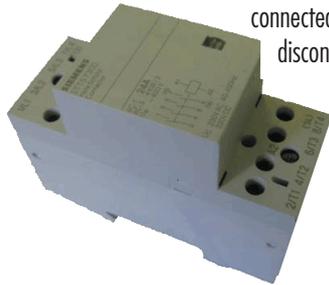
Description

Functionality

While dispensers are not authorised, this system disables the power supply to the fuel-pump motor in the dispenser but retains the power to the calculator and display illumination in the dispenser-head. This indicates to customers that the dispenser is available for use, but prevents a thief from starting the fuel-pump motor and stealing the fuel.

Only after the dispenser receives authorization, which can come from a POS, OPT or the forecourt controller, is power to the fuel-pump motor restored.

On completion of a successful transaction, the dispenser's authorization is cancelled and the power supply to the fuel-pump motor is, once again, disabled.



System

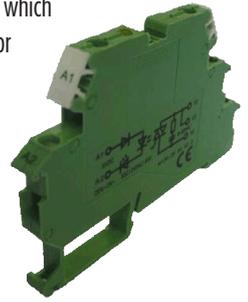
To implement this protection, it is necessary to install some new hardware and an updated Application in the PSS 5000 Forecourt Controller. These changes occur in the Mains power distribution panel, which is normally a secure location.

Using the existing power cable to the dispenser, a single phase, which supplies power to the dispenser display illumination and calculator, remains unchanged, but 2 of the phases that are used to power the fuel-pump motor are disconnected and

connected to a motor contact. This disconnects 2 phases from the power supply to the dispenser's pump

motor. Each motor contact/switch (one for each dispenser) is

connected to an Opto isolator, which controls the switch in the motor contact. The Opto isolator is controlled by the PSS 5000 via a digital I/O interface module. When the dispenser is authorized, the PSS 5000 triggers the Opto isolator to enable the power to the fuel-pump motor in the dispenser.



Retrofit

Uses existing installations, so it is easy to implement and cost effective because it can be retrofitted with a minimum of downtime.

Works Independently

With the control situated in the PSS 5000, the solution is independent of the POS system, Payment system and brands of manufacturers already installed on the site.

Installation Schematic

