



**Sensors**



**Switches**



**Controls**



**Fieldbuses**

## Application notes



**Application Note : May 2017**

**Market involved : Agriculture**

**Product : RSGD 45mm**

**Customer : Panel builder**

**Subject : Flexible installation in pump reversing applications**

### CUSTOMER ISSUE :

In some pump applications our customers need to perform regular reversing of the pumps to clean the impellers from sludge and other material and leave the pumps free to rotate.

Due to the hazardous gases present in some of the installations, the pumps are not always easily accessible, so our customers need to be able to remotely monitor the status on a 24/7 basis.

Due to the various types of liquids and other foreign matter that may be present, our customers need to ensure that the pump is reliably protected under abnormal working conditions.

### OUR SOLUTION :

The RSGD 45mm is designed in a very compact housing to fit in applications with limited panel space.

The phase sequence protection can be disabled via the Test/Reset button to allow motor operation in reverse.

The 2 output relays can be used to signal when the RSGD is in alarm or bypass mode, by means of a pilot light indication on the panel.

The integrated overload protection offers reliable protection for the pump in the case of locked rotor and/or blocked impeller.

Alarms can be reset both automatically and manually.

The RSGD comes with just 3 settings for FLC, ramp-up and ramp-down, making it very easy to set up.

The self-learning algorithm automatically optimises the start parameters to adjust to the load requirements.

### BENEFITS :

- Compact solution
- Easy to set-up
- Phase sequence protection disable function to allow pump operation in reverse
- Increased pump protection against overload and high temperatures
- Output relay indications can be used to signal pump status on the panel via pilot lights
- Control of the wide operational voltage range reduces soft starter susceptibility to voltage drops