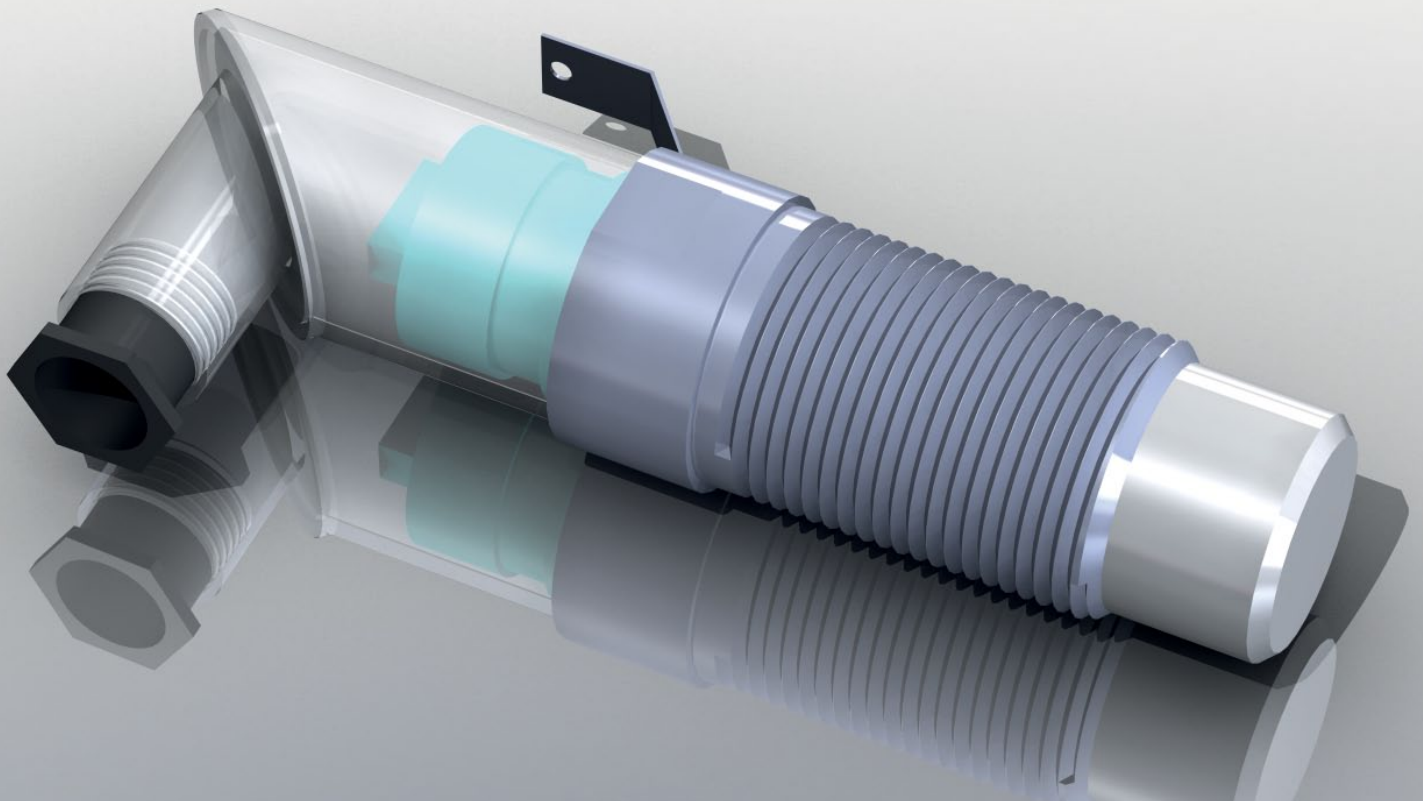


Electrical Level Switch



The Nivector FTC 968 Z electric level switch is the oil level control in the Symetro Gear safety system. In case the oil level decreases to a critical level, the level switch is able to stop the operation of the gear before it results in any damage.

The level switch consists of one sensor connected to the safety system and placed in the active oil trenches in a way, which ensures they are covered

in oil when the gear wheels are collecting oil from the oil sump and throw it to the trenches. Hence the Nivector will give alarm if the oil level in the oil sump gets too low.

The Nivector is set in "Minimum" alarm mode corresponding to a normally closed function. The level switch is additionally designed to alarm if voltage failure, sensor or wire breakdown occurs.



Electrical Level Switch

Operational Advantages

The Nivector FTC 968 Z is an electric level switch and, compared to older models which are mechanical, the electrical level switch insures secured operation since wear is eliminated due to electric feedback.

The older mechanical level switches starts to fail over time due to wear on and seizing of the moving parts. Since mechanical moving parts have been removed and replaced by electric parts, the Nivector FTC 968 Z is significantly more reliable than the mechanic level switches.

There have been incidents with mechanical level switches which have failed and caused severe damage to the Symetro parts due to lack of oil. Furthermore some of the old switches contain mercury, which should be avoided.

Application

The Nivector 968 Z is available for all Symetro gears, and can easily replace older level switches.

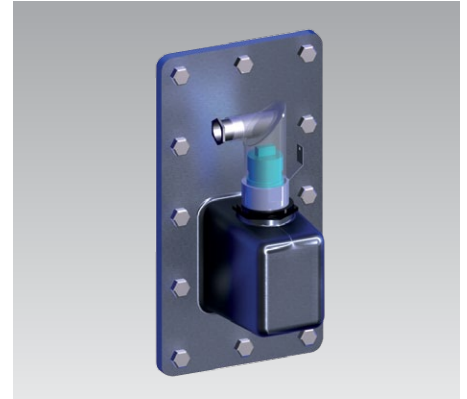
Two old mechanical switch types will be replaced with the Nivector 968 Z type:

The Mercury type. The Nivector is supplied with an adaptor fitting exactly to the old connection.

The Jo Bell type. The Nivector is supplied with a connecting socket for welding in.

Function

- 3 wire DC version (to be used in connection with vibration monitor PCH1028), 10-55 V DC
- 2 wire AC version as optional, 21-253 V AC
- Temperature range -20°C to +65°C
- Exploration proof with reaction time of 0.5 seconds



Nivector with adaptor substituting a mechanical Mercury switch



Before

After

Project Centre Denmark

FLSmidth A/S
Vigerslev Allé 77
DK-2500 Valby
Copenhagen
Tel: +45 3618 1000
Fax: +45 3630 1820
E-mail: info@flsmidth.com

Project Centre USA

FLSmidth Inc.
2040 Avenue C
Bethlehem, PA 18017-2188
Tel: +1 610-264-6011
Fax: +1 610-264-6170
E-mail: info-us@flsmidth.com

Project Centre India

FLSmidth Private Limited
FLSmidth House
34, Egatoor, Kelambakkam
(Rajiv Gandhi Salai, Chennai)
Tamil Nadu – 603 103
Tel: +91-44-4748 1000
Fax: +91-44-2747 0301
E-mail: indiainfo@flsmidth.com

www.flsmidth.com

