# Increase Quality Assurance by Verifying Coverage

## **Toftejorg Sanitary Rotacheck**

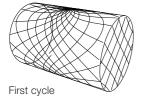
## Application

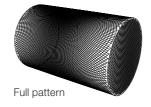
Toftejorg Sanitary Rotacheck represents an important tool for increasing quality assurance in tank cleaning, since it provides an electronic means of validating the 360° impact coverage of the Toftejorg rotary jet head. The system is appropriate wherever rotary jet heads are employed in cleaning tanks. The signal generated by the system can be audible, visual or integrated into the customer's process control specification. Toftejorg Sanitary Rotacheck is particularly suited to industries where improved validation standards are required, e.g., the pharmaceutical, food and beverage industries.

## Working Principle

The Toftejorg Sanitary Rotacheck sensor is precisely installed to detect the sweep and impact of fluid jets released as the rotary jet head performs its cleaning cycle. From the geared operation of the cleaning device, and by receiving the impact force from the jets, the sensor provides verification of satisfactory operation. Any back pressure in the tanks is accounted for.

#### **Cleaning Pattern**





The above shows the cleaning pattern achieved by a Toftejorg rotary jet head. Toftejorg Sanitary Rotacheck enables the user to automatically confirm that this operation has taken place on individual tank cleaning cycles.

#### Standard Design

Welding adaptor for sanitary installation. 2 and 10 m (6 and 32 ft) cable for relay connection.

#### Materials

4.2

Sensor and diaphragm 1.4404 (316L)



## Technical Data

Pressure: Max. overload pressure: Max. repetition frequency: Duration of electrical pulse: Mounting:

Relay connection, electric:

Operating temperature: Temperature on diaphragm: Enclosure: Ex-class: Electromagnetic Noise: 0.1 - 2 bar (1.5 - 29 psi) 15 bar (217 psi) For sensor function 2 Hz Min. 1.0 sec. By clamping into the welding adapter or clamped directly on the Toftejorg SaniJet 20 2 m (6 ft) cable, Ø6 mm (0.24 inch), PVC, 2 x 0.75 mm<sup>2</sup> shielded -20 to 85 °C (-4° to 185 °F) Max. medium 140 °C (284 °F) IP 67 [EEx]ib IC T6 Tested and approved according to EU EMC directive

#### Universal Relay Unit Technical data

Supply Voltage	24 - 115 - 230 V AC
	50 - 60 Hz
Power consumption	Max. 4 VA
Enclosure	IP 54
Ex-Class	[EEx]ib IIC
Weight	550 g (1.21 lb)
Mounting	By clipping onto a
	standard rail to DIN/
	or by screw fixing
Operating temperature	-20 to 85 °C (-4° to 1
Max. external load, relay	250 V, 2A AC
PLC output	24 V DC max 50 m

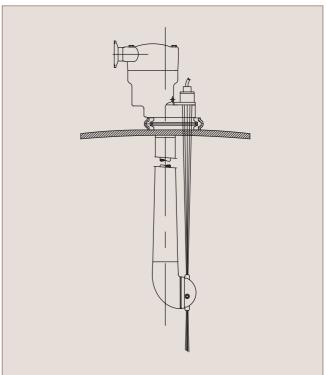
0 M PLC output Open collector output

lb) g onto a 35 mm il to DIN/EN 50022 fixing (-4° to 185 °F) С 24 V DC, max. 50 mA Max. 50 V DC, max. 50 mA

### Conditions Relating to the EX-Approval

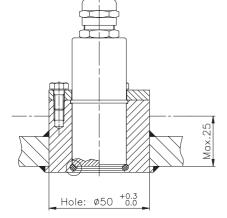
The Universal Relay must be placed outside the hazardous area, and the supply voltage for other kinds of equipment connected to the same current circuit must not exceed Um = 250 VAC. When installing the Sensor, please note that the electronics in the Sensor are galvanically connected to the housing for EMC regulations, and the Sensor must not be supplied from a source other than the Universal Relay

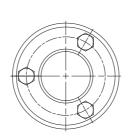
## **Application of Sanitary Rotacheck**

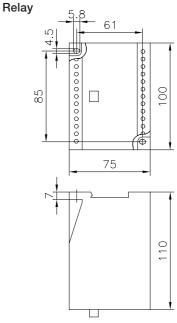


## Dimensions Installation of adaptor

Welding adaptor







## Ordering

Please specify type of cleaning head to be used and confirm application suitability