

SAVAL CLEARVIEW

FLAME DETECTION

FOR GEODESIC DOME ROOF STORAGE TANKS

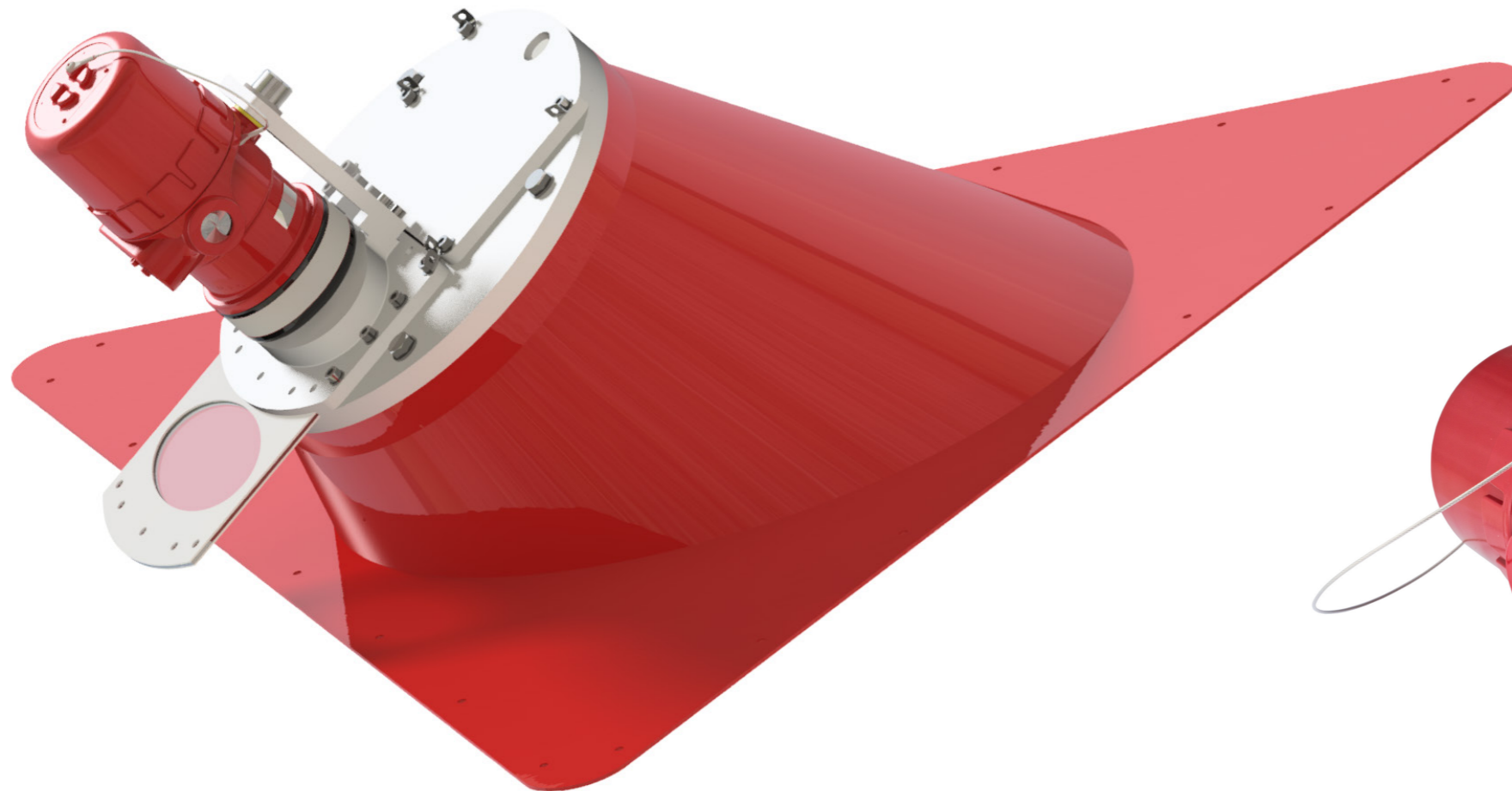
CLEARVIEW

It is standard practice to install fire detection systems on storage tanks with internal floating roof. However, the movement of the internal floater sometimes causes problems with the internal wiring which is not accessible, leaving the fire detection system unavailable for long periods.

Clearview is designed for fixed geodesic roof storage tanks with an internal floating roof.

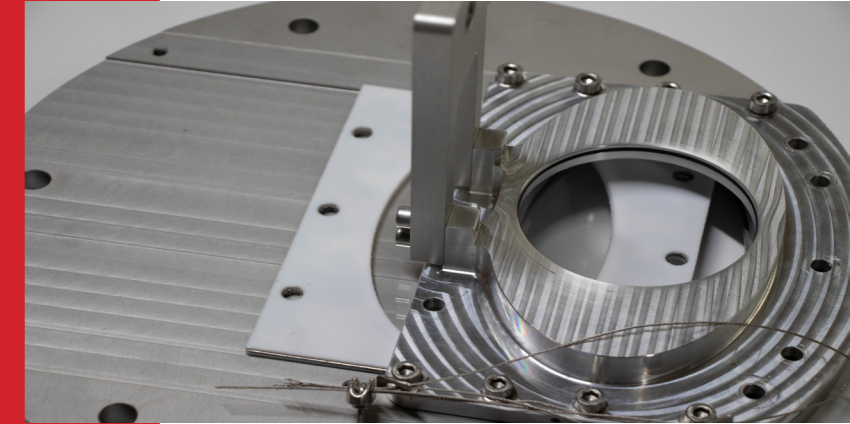
This solutions allows:

- + Installation while the tank is in operation (depending on tank design and content).
- + All equipment and cabling to be installed outside of the storage tank, allowing maintenance in a suitable area (Zone 1) even during full operation of the tank.



CLEARVIEW GLASS

During maintenance of the ClearView the storage tank can remain in full production even when the detector is dismantled. The ClearView special quality glass ensures a constant seal preventing the release of hazardous vapours. The see-through glass ensures the separation between the ATEX zone 0 in the tank and the outside air, so that the tank remains closed. The Clearview glass is mounted in an exchangeable module, allowing the contaminated glass to be easily replaced or cleaned.



DET-TRONICS FLAME DETECTORS

ClearView is specially designed to be used in combination with 3xIR Det-Tronics flame detectors. This is a very versatile, patented and reliable detector. It provides the earliest response to the smallest fires and the highest level of false alarm rejection. Its multi-fuel off-axis detection provides the largest area of coverage, making it an economic choice.

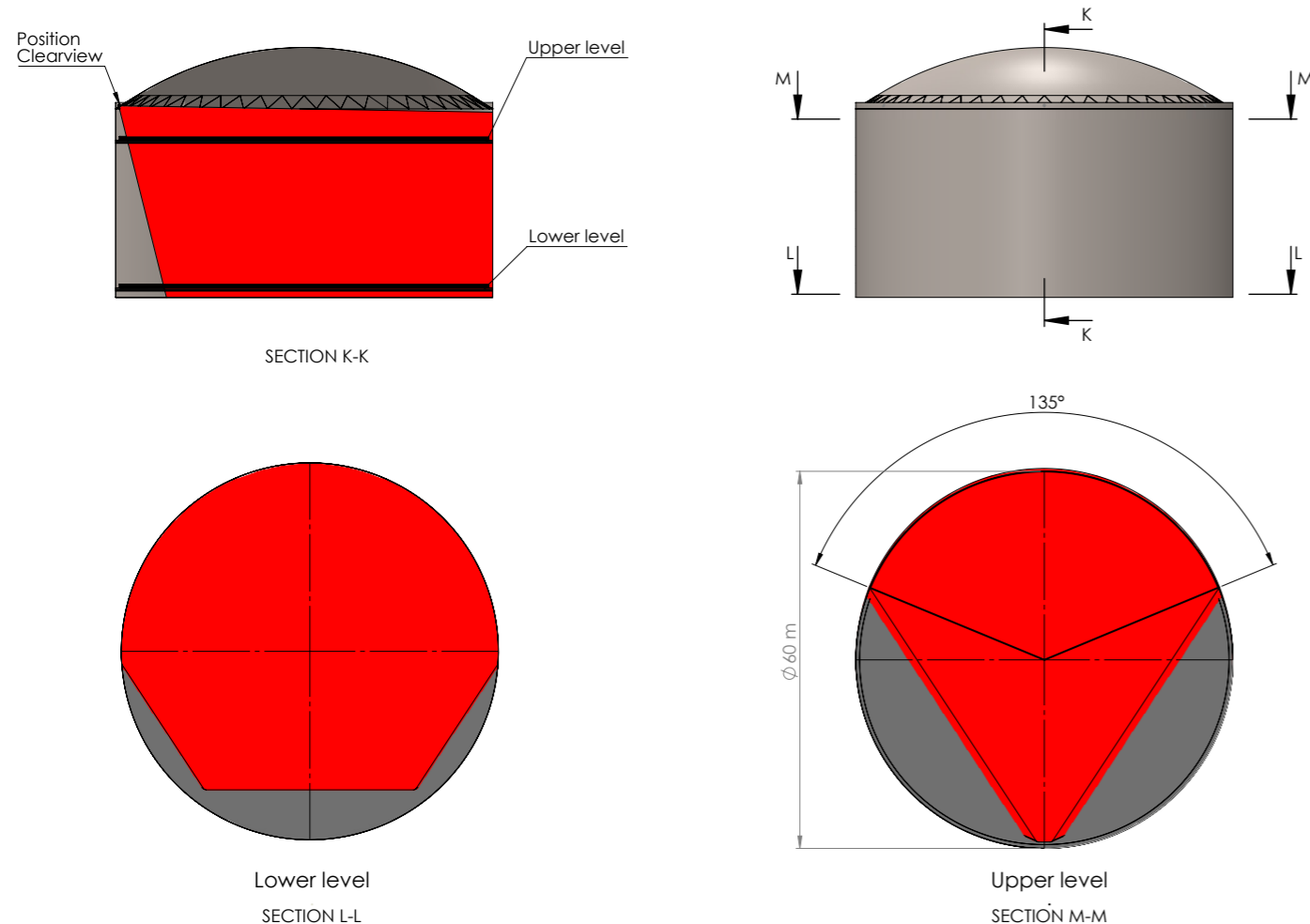


INSTALLATION ON GEODESIC DOME ROOFS

The interface and the Saval Clearview can be installed on new or existing geodesic dome roof storage tanks. Saval supplies a custom interface to optimize the coverage of the detectors. Depending on the tanks design and content, installation can be done while the tank is in operation.

COVERAGE OF THE DETECTOR

To achieve a full tank coverage a set of 3 flame detectors must be installed on each storage tanks. These are installed with a spacing of 120' around the tank roof. As shown below, one detector covers at least 1/3 (or more) of the full tank, ensuring that full coverage is achieved with 3 detectors.



SPECIFICATIONS

CLEARVIEW

SYSTEM COMPONENTS

- + Including custom roof interface and fixtures.
- + Multi spectrum infrared flame detector providing detection of fires from light to heavy hydrocarbon fuels (typical 3 flame detectors to cover the complete tank surface).
- + Approved for ATEX zone 1.
- + Separately available: exchangeable special glass module.
- + Roof side interface design plans (roof modification in customer supply).

OPERATING VOLTAGE

24 Vdc nominal (18 Vdc minimum, 30 Vdc maximum).
Maximum ripple is 2 volts peak-to-peak.

POWER CONSUMPTION

4 watts minimum (without heater), 17 watts at 30 Vdc with EOL resistor installed and heater on maximum.

RELAYS

Contacts rated 5 amperes at 30 Vdc.

FIRE ALARM

- + Form C (NO and NC contacts)
- + Normally de-energized
- + Latching / non-latching

FAULT

- + Form A (NO contacts)
- + Normally energized
- + Latching / non-latching

AUXILIARY

- + Form C (NO and NC contacts)
- + Normally energized / de-energized
- + Latching / non-latching



SAVAL B.V.

Huifakkerstraat 22
4815 PN Breda
Netherlands

P.O. box 3499
4800 DL Breda

+31 (0)76 - 54 87 000
systems@saval.nl



www.saval.nl/en/products/clearview
www.facebook.com/savalbrandbeveiliging
www.linkedin.com/company/saval-breda
youtube/@SavalBrandbeveiliging

WWW.SAVAL.NL