Consilium Group
Consilium is a technical knowledge-based company in well-defined market and product areas. Consilium aspires to be an innovative, competitive supplier, providing a high level of service.

Consilium focuses on growth initiatives in market and product areas where the group already is, or can be, world leader, i.e. the group’s core operations. Continued product development and international growth in these areas will further enhance Consilium’s market position and create value for the shareholders.

The Consilium Group has three core business areas:
• Fire & Gas
• Navigation
• Components

Consilium Fire & Gas AB
Consilium Fire & Gas is a global safety company focusing on the fire and gas detection segments.

The overall function of the systems is to protect human lives and assets.

Our systems are developed in co-operation with our customers. Thanks to the modular designs they offer great flexibility in terms of customization and user-friendliness.

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Fire, regardless what caused it, is often unpredictable and hard to avoid. An efficient fire alarm system is of vital importance for the protection of lives and assets.

After a series of fires in tunnels around the world, for instance in the Mont Blanc in 1999 where 41 persons were killed, the awareness regarding fire detection on trains and vehicles has increased.

Consilium 40 years experience
Consilium Transport Safety is a member of the Consilium Group, a company represented worldwide with more than 40 years experience in fire detection.

In order to develop a system that is resistant towards interference and false alarms, Consilium Transport Safety has based its solution on the same technique Consilium uses for installations in submarines and other extreme environments.

If the fire alarm system is not designed to meet the requirements regarding vibrations, humidity etc, such environmental conditions can cause frequent false alarms, which in many cases may lead to the systems being turned off.

Three segments
Consilium Transport Safety offers high tech fire detection systems within three segments.

Fire detection for:
- Trucks
- Trains
- Power Plants

Consilium Transport Safety
a company within the Consilium Group

ND1-E
Smoke Detection for Trucks and Buses

Consilium ND1-E is an optical smoke detector, which gives alarm when there are smoke particles in the detector. The ND1-E is also equipped with a warning for low battery voltage, which will be indicated by a short buzzer every 40th second.

Buzzer
The buzzer has two sound levels. In case of an alarm during driving, the buzzer starts at a lower level and increases after approximately 15 seconds, taking the traffic security in consideration.

Handling alarm
In case of an alarm, the buzzer sounds with a pulsating signal, which can be stopped by quickly pushing the smoke detector’s function button. The detector’s timer function is now turned on and the cause of the alarm may be investigated.

Timer
The timer function is turned on by pushing the function button quickly. This function will shut off alarm signals during 10 minutes and is intended for driving in a dusty environment and/or for drivers who wish to smoke.

In timer position, a short signal buzzer will sound every 40th second during 10 minutes until it is turned off automatically or by pushing the function button.

Battery
The battery in the detector is automatically supervised. When the voltage level becomes too low to secure the function, a short signal will sound every 40th second.

Service
Approximately one month before the battery is empty, short signals will sound. The detector will function normally during this period but the battery shall be changed immediately in order to guarantee the function of the detector.
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Fire detection for:  • Trucks  • Trains  • Power Plants

Trucks & Buses

System: ND1-E

• Smoke detector for heavy vehicles  • Timer functionality

Trains

System: TS1000 Smoke and fire detection system

• Userfriendly  • High immunity against interference such as vibrations, electrical fields, moisture etc  • Easy service/long service interval

Power Plants

System: TS1000 Smoke and fire detection system with battery backup

• Pollution resistance and high immunity against interference (EMC) in extremely harsh environments  • Easy integration  • Marine certified systems on offshore installations

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