

**23 January 2019**  
**Australian Securities Exchange (ASX) Announcement**

## **Nanotron and Selectronic launch a mine safety collision avoidance solution**

### **Highlights:**

- **Sensera's market-leading expertise in collision avoidance systems yields a new product jointly developed with industrial safety solutions provider Selectronic**
- **The new product, the PDS2400, aids open-pit mine safety with high accuracy, long range and smooth scalability in a single turnkey solution**
- **Building on nanotron's tag-ready swarm bee products facilitates a modular solution which greatly reduces time-to-market – launching at the Embedded World trade fair in Nuremberg in February 2019**

Sensera Limited (ASX: SE1, "Sensera" or "the Company"), an Internet of Things (IoT) solution provider that delivers sensor-based products transforming real-time data into meaningful information, action and value, is pleased to advise that its wholly owned subsidiary, Nanotron Technologies GmbH ("nanotron"), and industrial safety solutions provider Selectronic have announced their first joint product: the PDS2400 Collision Avoidance Solution (CAS) for open-pit mine safety.

The PDS2400 is an RF-based proximity detection solution that supports collision awareness and proximity warning between fast moving vehicles, as well as between vehicles and people. Unlike competitor solutions, it provides a turnkey, ready-to-go system, which requires zero calibration before use.

The new solution helps mine operators ensure that they comply with all relevant safety legislation, such as Mine Safety & Health Administration (MSHA) regulations in the USA. The PDS2400 CAS solution includes state-of-the-art vehicle systems with Controller Area Network (CAN) bus-based displays and personnel tags with wireless Qi chargers, and operates for up to 50 hours between charges.



### ***The turn-key CAS solution, PDS2400***

The PDS2400 provides proximity alerts with two viewing options: quad sectors or hex sectors. The standard system provides an accuracy of 1m over long ranges of 100m or more, while an optional dual-mode tag can provide even higher accuracy down to 10cm at short ranges of 10m.

For high reliability, the system provides robust resistance against electromagnetic disturbances, whilst the personnel tag utilises a 'body pervasive' antenna design. There are three adjustable warning zones, and the vehicle system provides 'nuisance alarm suppression' for the driver.

Dr Jens Albers, CEO of nanotron, said:

*"Selectronic is very well known for its innovative mining safety solutions, and the PDS2400 proximity solution leverages nanotron's strength in location awareness to bring an entirely new level of accuracy and simplicity to the industry."*

Jens Richter, Managing Director of Selectronic, said:

*"Nanotron's market-leading expertise in location awareness has enabled us to quickly and economically develop a powerful, robust, industry-grade collision avoidance system."*

The PDS2400 uses nanotron's tag-ready swarm bee products, a family of smart RF modules with ready-made anchors. Swarm bee enables Selectronic to provide a modular solution, with a common pin-out and API, which simplifies development and hardware integration, and thereby greatly reduces time-to-market.

With a coverage range of up to 500m, swarm bee modules can track objects with an accuracy down to 10cm. They provide a power-efficient approach that extends battery life of mobile devices and smoothly scales up and down to meet specific customer requirements.

The new PDS2400 will be available in Q2 CY19 and will be presented at embedded world in Nuremberg (Germany), the leading international fair for embedded systems, distributed intelligence and the Internet of Things, on February 26-28, 2019.

## About Selectronic

Since establishment in 1976, Selectronic has continuously developed and produced innovative safety solutions for industry, the authorities and mining. Product quality has always been a top priority as Selectronic has developed and implemented numerous international projects. Selectronic has been certified for conformance with the DIN EN ISO 9001:2008 management systems and the ATEX 94/9/EC directive. For more details, please see [www.selectronic-funk.de](http://www.selectronic-funk.de).

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## About Sensera Limited (ASX: SE1):

Sensera is an Internet of Things (IoT) solution provider that delivers sensor-based products transforming real-time data into meaningful information, action and value. The company designs and manufactures hardware and software across the vertical technology spectrum from unique structures as MicroElectroMechanical Systems (MEMS) and sensors, as well as wireless networked systems and software that when combined, drive an entire IoT platform solution.

Shares in Sensera Limited (ASX: SE1) are traded on the Australian Securities Exchange (ASX). For more information, please visit our website: [www.sensera.com](http://www.sensera.com).

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