

## Safety-certified draw-wire sensor

CiA member Gefran (Italy) has expanded its sensor portfolio with SIL-2/PL-d versions. The draw-wire sensors can measure lengths from 1,8 m to 8,3 m or from 10 m to 12,5 m. The products come with a CANopen Safety (EN 50325-5) interface supporting the CiA 406 encoder profile. They are intended for applications in mobile machinery such as telehandlers, aerial work platforms, and construction equipment. The accurate monitoring of boom extension, lifting systems, and machine stability is essential to ensure functional-safe operation, especially when working at height or under dynamic load conditions. In these applications, sensors are directly involved in safety-related control functions, where any incorrect or inconsistent measurement can lead to hazardous situations for both operators and equipment.

Gefran also provides the KM and KMC series of functional-safe pressure transducers with CANopen Safety connectivity. The Italian company is committed to certify its entire mobile sensor portfolio for functional safety (SIL-2/PL-d), including rotary sensors and inclinometers. hz

## Brief sensor news

- ◆ **Wind indicator:** Deif (Denmark) offers the XDi-N graphical display in three sizes, coming with two CAN interfaces compliant with NMEA 2000. They are intended for marine applications. They are compatible with the company's wind sensors.
- ◆ **Weather sensor:** The Marwis (Mobile advanced road weather information sensor) by Lufft (Germany) is a road and runway weather sensor, detecting road conditions, temperatures, friction, and other parameters in real-time from driving vehicles. It optionally comes with a CAN interface.
- ◆ **Position sensor:** Temposonic (Germany) has launched the MH Xternal Mount series, a magnetostrictive sensor for use in hydraulic cylinders. The product features CANopen or J1939 connectivity. The dual-housing design separates the sensing element, mounted inside the cylinder, from the externally mounted electronic module.
- ◆ **Encoder:** Siko (Germany) introduced the WV58MR and WH58MR safety encoders for mobile machines with improved accuracy and an SAE J1939 Interface. The single-turn or multi-turn devices are alternatively available with CANopen and CANopen Safety interfaces up to performance level d (PL d). hz/of



Forvia Hella (Germany) offers NO<sub>x</sub> sensors for commercial vehicles (24 V) and passenger cars (12 V) with CAN connectivity. NO<sub>x</sub> sensors play a crucial role in monitoring and reducing nitrogen oxide emissions from modern diesel vehicles in order to comply with strict Euro 5 and Euro 6 standards. They have their own control unit that communicates with the engine control unit via a CAN interface. "The sensor is sensitive to disturbances in its environment. When repairing, workshops not only need the right spare part, but also the corresponding expertise, as new sensors must first be taught," explained Dr. Marcel Wiedmann from Forvia Hella. "Our goal is to continuously expand the portfolio in complex electronics in order to efficiently support independent workshops in repairs," he added. "With our ready-to-use spare parts and the accompanying services from Hella Gutmann (Germany), we guarantee a smooth repair process."

The Macsremote service by Hella Gutmann, which was developed for passenger cars, offers independent workshops an innovative solution for remote configuration that enables fast and efficient remote teaching, coding and calibration of sensors and vehicle electronics. For NO<sub>x</sub> sensors to function properly, the software needs to be coordinated with that of the engine control unit. While this is possible with conventional systems with a multi-brand tool, the latest generation of vehicles requires special coding of the sensor with the software provided by the car manufacturer. "Our Macsremote hardware enables us to establish a connection to the vehicle and link the new sensor to the existing control unit," explained Jens Schubert from Hella Gutmann.

By using this service, independent workshops can not only work efficiently, but also increase their competitiveness compared to brand-specific specialist workshops. For example, they save time and minimize insurance risks by offering services directly on site, which avoids long waiting times and transport risks to OEM (original equipment manufacturer) workshops. The company also provides support with information and repair instructions. hz