

IP67-RATED

Rugged CAN keypads for heavy duty and special vehicles

EAO has introduced its series 09 of CAN keypads and CAN joysticks. The products support the CANopen safety protocol available of 2020 (ISO 26262 and ISO 13849). The human machine interfaces come with CAN integration.



(Source: EAO)

Reliability and functional safety are crucial to controlling safety-related applications in vehicles and machines – whether in construction equipment and vehicles, agricultural equipment, or in special and commercial vehicles of various types. The actuators and indicators must also be configured, both mechanically and electronically, to suit the respective application. The rugged CAN keypads and CAN joysticks from series 09 meet these requirements, said the company.

Typical applications of the products are roadmaking vehicles and roller compactors, loaders, dozers, and excavators, cranes, dump trucks, and crawler drills, fire-fighting and rescue vehicles, road sweepers, cleaning

vehicles, and refuse trucks, snow removers and groomers, as well as agricultural vehicles and equipment.

The up to IP67-protected actuators and indicators work at an operating temperatures from -40 °C to +85 °C. The low back panel depth and robust clip-in or screw-in mounting allows installation, either vertically or horizontally. These devices also offer tactile feedback, and are visible in daylight and at night due to the RGB LED halo and LED symbol illumination. Configurable 4-segment halo button illumination is integrated as regular. The customizable illumination provides the operator with visual feedback. Legends can be selected from the company's extensive library of industry-recognized, laser etched ISO 7000 symbols or customer-supplied graphics to meet end user specific needs.

The keypads are designed for functional safety in accordance with the EN ISO 13849 PLD and ISO 26262 ASIL B standards. Put simply, functional safety means that the system monitors whether the safety-related function is working properly. If a function error occurs, the system promptly informs the operator. Due to the CAN integration, the devices are integrated into a CAN system – the devices are fitted with a Deutsch DT series connector.

[CW](#)