

22,2 MM X 41 MM

Rotary encoder with CAN and analog options

The miniature rotary encoder of the MH609y-II-CAN series featuring CANopen and CANopen safety from FSG Fernsteuergeraete is also available as MH609y-II-MU-i in a version with two analog signal outputs for 4 mA to 20 mA.



The rotary encoder MH609y-II-MU-i is suited for space-critical applications such as position detection in joysticks, controllers, and command transmitters for ships (Source: FSG)

With a diameter of 22,2 mm and a housing length of 41 mm, it is the smallest redundant magnetic rotary encoder in the FSG portfolio. By extending the range of functions, FSG is further expanding the MH609y-II device series. In its housing, the analog encoder has a redundant Hall sensor with a resolution of 12 bit, which can detect an angular range from 0° to 360°.

In its IP65-protected housing made of anodized aluminum, the products class is suited to the demands of outdoor and offshore use in ships, rail vehicles as well as construction and agricultural machinery: it is shock-resistant at accelerations of up to 25 g (6 ms) and vibration-proof up to 4 g (sine, 5 Hz to 100 Hz). The temperature range is -40 °C to +85 °C. The starting point for the development was a previous customer solution for a small rotary encoder with a downstream signal converter for CAN, explained the company. FSG then developed the MH609y-II-CAN series, a cheaper and more compact solution without additional separate converters, the company continued. Signal output was via two CAN interfaces using the CANopen protocol. Recently, this product was supplemented by a version with two signal outputs for 4 mA to 20 mA, with otherwise identical dimensions and functional features, added the company.

Whether analog or digital, Stefan Koenig, Sales Manager at FSG Fernsteuergeraete, sees possible applications for the device series: "The rotary encoders of the MH609y-II series are mainly used for joysticks, controllers, command transmitters for ships and position feedback devices, because installation in these applications is always space-critical. At the same time, the trend is to use the

space gained through miniaturization by integrating additional functions into operating devices for vehicles and machines." In principle, all FSG standard encoders can be adapted to customer-specific requirements in terms of their electrical interfaces and mechanical design, said the company.

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