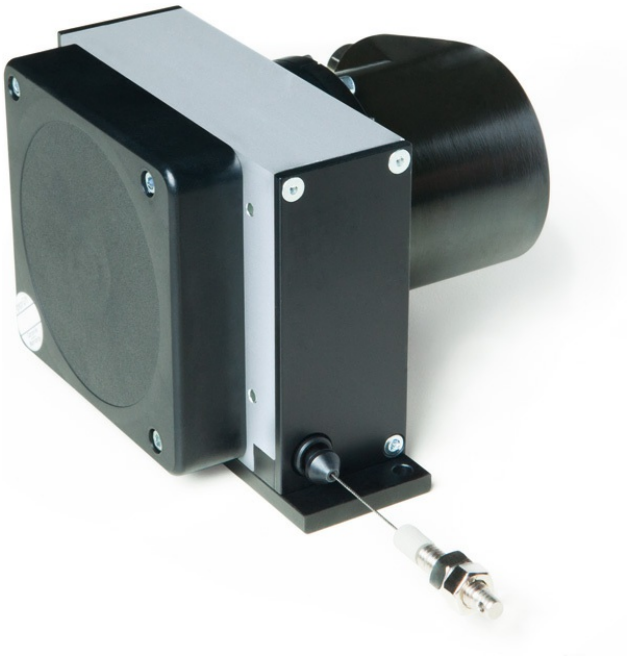
CAN Newsletter Online

WIRE-ACTUATED

Encoder for measuring lengths up to 6 m

Siko presented the SG61 wire-actuated encoder, which can be used for measuring lengths up to 6 m. J1939 and CANopen interfaces are available.



(Source: Siko)

The measurement length and a housing that is as compact as possible are important factors when choosing sensors in intralogistics and for mobile machines, said the company. The SG61 wire-actuated encoder comes with an installation depth of 70 mm x 85 mm x 105 mm and an aluminum housing, coupled with impact-resistant plastic. Factors such as temperatures between -40 °C and +80 °C, high shock and vibration loads, dirt, dust and water pose no limitations for the wire-actuated encoder.

For outdoor applications in low temperature ranges, there is also a variant with integrated water drain holes – this avoids the problem of water freezing in minus temperatures and increases the service life.

The 58 mm flange system of the encoder allows the customer to decide which interface should be used. A range of interfaces are compatible with the wire-actuated encoder, whether it's an incremental interface such as HTL or TTL, or an absolute interface such as analog, SSI, CANopen, J1939, CANopen Safety, Fieldbus, or Ethernet.

The wire outlet also offers all of the advantages of Wire-Flex technology. This makes it possible to ensure that the wear on the wire is kept to a minimum, even if it pulls out at an angle. The shape of the wire outlet and the various types of wire mean that any deposits on the wire can be removed. Mechanical tolerances for the machine or vehicle can be offset automatically.

The encoder provides increased safety in combination with the redundant Siko WV58MR safety rotary encoder and can be used in the overall system in applications up to performance level d (PLd). This is made possible by the mechanical design and software specially designed for the purpose. Not only the electronics but also the mechanics are monitored, which means that dangerous conditions can be detected at an early stage – making it particularly suitable for mobile machines for a range of application.

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