Your Global Automation Partner

Miniature Encoder for Mobile Equipment

PRESS RELEASE 10/17

The contactless resonator measuring principle enables the compact Ri360-QR20 to be wear-free and permanently sealed

Mülheim, March 29, 2017 – Turck's compact and wear-free Ri360-QR20 miniature encoder is especially designed for use in mobile machinery. The new encoder series with IP68/IP69K protection exceeds the e1/E1 requirements and comes in a compact 71 x 64 x 20 mm housing. It is based on the contactless measuring principle used within the QR14 and QR24. The key feature: The housing fully surrounds the positioning element and provides it with full protection from the outside. This not only reduces the planning work for the designer and offers mechanical protection as well as protection from dust and moisture, as there are no exposed parts have to be taken into account. The housing is also permanently sealed. Even the often problematic potential points of leakage such as LED lenses are eliminated since the QR20 uses a 1pcs translucent housing.

Turck1017.jpg:
Clean protection: positioning element is completely surrounded in the encoder

The encoder offers interference immunity of 100 V/m and is protected from line-conducted interference according to DIN ISO 7637-2 or SAE J113-11. Salt spray or rapid temperature changes, as well as diesel, kerosene or vibrations have no effect on the device. With a temperature range from -40 to +85 °C there are virtually no climatic conditions that could be critical for the QR20. The Ri360-QR20 offers a 12-bit resolution on the output side, corresponding 0.09 degrees and has an output of 0.5-4.5VDC (LU4). If the sensor does not detect a positioning element, the value jumps to 5 volts.

The user can choose between four connection types: Deutsch connectors, AMP plug connectors, M12 plug connectors or open-ended cables. The positioning element supplied with the device allows versatile connection to different shaft diameters. With the new QR20 encoder Turck customers can choose from seven preset angle variants: These are 20°, 40°, 60°, 90°, 120° and 240° as well as 360°.

PRESS CONTACT

Klaus Albers
Director Marketing Services & Public Relations
Phone: +49 208 4952-149
Mail: klaus.albers@turck.com
Web: www.turck.com/press

CONTACT

Hans Turck GmbH & Co. KG
Witzlebenstraße 7
45472 Mülheim an der Ruhr, Germany
Mail: more@turck.com
Web: www.turck.com