# Hollow shaft encoder with multiturn function

New SES/SEM70 motor feedback systems from SICK

Waldkirch, February 2018 – With its all-new SES/SEM70 motor feedback systems, SICK is setting a new standard in the field of direct drives. The company has created a multiturn variant with a mechanical gear mechanism – eliminating the need for additional components such as external buffer batteries. The mechanical multiturn can capture up to 4,096 revolutions.

The motor feedback system features a hollow shaft diameter of 25 mm and is installed directly on the motor shaft – so there is no need for any strap connections or mechanical couplings. After installation, it is also possible to read out the position of the rotor using the PGT11-S programming device, providing a reliable way of identifying installation errors. The small design saves space and weight, and is rugged, wear-free, and reliable thanks to the bearing-free technology. SICK is also working on another size featuring a hollow shaft diameter of 50 mm, plus a safety variant (SIL2-certified).

The SES/SEM70 motor feedback systems are ideal for use in torque motors and rotary tables, as well as in the diverse area of direct drives within robot applications, injection molding machines, woodworking centers, semiconductor technology, and handling systems.

Images: SEM70.jpg / SES70\_SEM90.jpg  
With the SES/SEM70 rotative motor feedback systems featuring an industrial HIPERFACE® standard interface, SICK is opening up a new world of options for hollow shaft motors and direct drives.

SICK is one of the world’s leading producers of sensors and sensor solutions for industrial applications. The company, which was founded in 1946 by Dr. Erwin Sick and has its headquarters in Waldkirch im Breisgau near Freiburg in Germany, is among the technology market leaders. With more than 50 subsidiaries and equity investments as well as many agencies, SICK has a presence all over the world. In the 2016 fiscal year, SICK had more than 8,000 employees worldwide and a group revenue of just under EUR 1.4 billion.  
Additional information about SICK is available on the Internet at http://www.sick.com or by phone on +49 (0) 7681 202 4183.