# Smart motor sensors enhance the condition monitoring of servomotors

**Donaueschingen, September 2020 – With the sHub®, SICK is presenting its very first intelligent add-on to the EDS/EDM35 motor feedback system. The sensor hub with integrated acceleration sensor allows comprehensive condition monitoring of electrical drives right down to each individual servo axis of a machine. The sHub® thereby paves the way for entry of the EDS/EDM35 into the world of digitalized drive technology and its ever more intelligent servo drive systems.**

In addition to the position and speed of the drive, the sHub® also transmits to the controller via HIPERFACE DSL® measurement information about vibrations on the drive as well as the temperature of the motor winding of the servomotor.

**Maximum availability for highly dynamic and safety-related systems**

Knowing the status of machines and servomotors helps to detect malfunctions and breakdown risks earlier, to resolve them more quickly, or to avoid them entirely. Using the sHub®, faults on the drive, for example bearing damage or imbalances, can be detected in real time and eliminated before a machine downtime occurs. This is especially important for highly dynamic and safety-related systems that are designed for 100% machine availability. This reliability is now effectively supported by the combination of the safety-certified EDS/EDM35 (PL d, SIL2) and the sHub®.

**Motor and drive manufacturers as well as machine builders benefit**

The sensor hub and its functionality can be easily integrated into the motor controller and motion control systems because the HIPERFACE DSL® infrastructure is already available. The synchronous detection of position and vibration data by the sHub® increases the forecast accuracy of when a component will fail. At the same time, the sensor hub from SICK offers the required intelligence and connectivity for a future-proof implementation of Industry 4.0. This enables machine manufacturers to develop and offer their own service plans, for example predictive maintenance, based on the condition data provided by the sHub®.

Image: sHub\_Vorderseite // Art\_sHub\_mit\_ED-35pro\_A4  
*The sHub® combined with the EDS/EDM35 motor feedback system allow enhanced condition monitoring of electrical drives.*

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SICK is one of the world’s leading solutions providers for sensor-based applications in the industrial sector. Founded in 1946 by Dr.-Ing. e. h. Erwin Sick, the company with headquarters in Waldkirch im Breisgau near Freiburg ranks among the technological market leaders. With more than 50 subsidiaries and equity investments as well as numerous agencies, SICK maintains a presence around the globe. In the 2019 fiscal year, SICK had more than 10,000 employees worldwide and a group revenue of around EUR 1.8 billion. Additional information about SICK is available on the Internet at [http://www.sick.com](http://www.sick.com/)