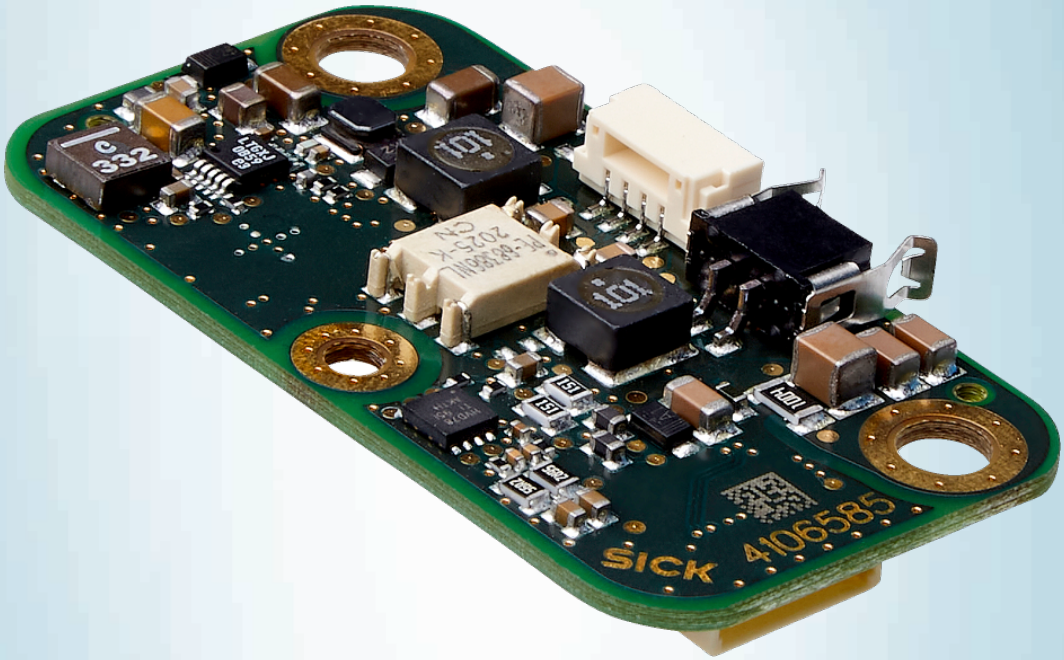
Product family overview

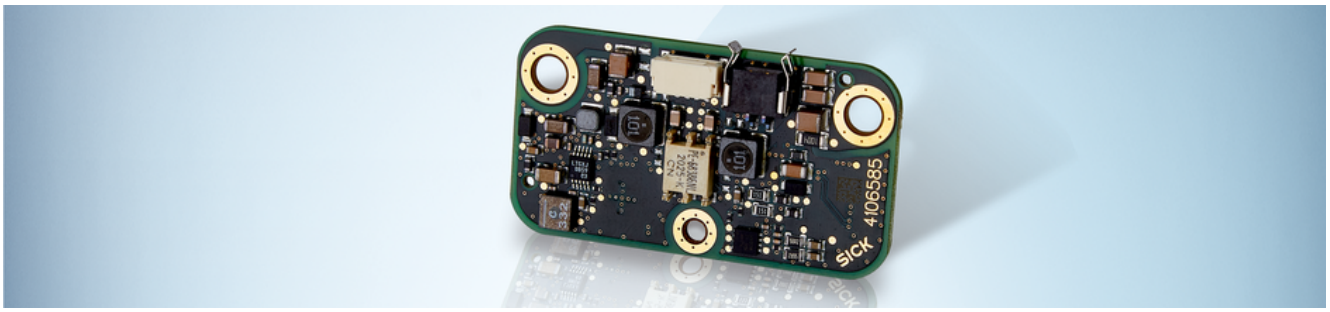


sCon

Upgrade motor feedback systems into the digital world

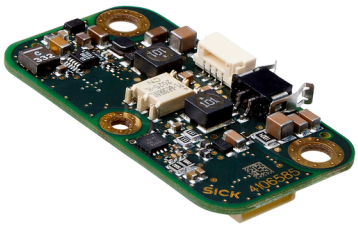
SICK
Sensor Intelligence.

Advantages



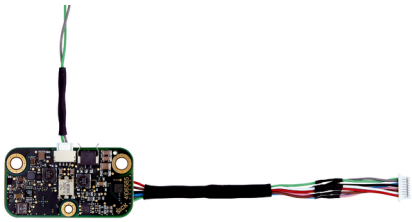
Upgrade to a smart motor sensor with sCon®

The compact sCon® interface converter converts analog HIPERFACE® signals into HIPERFACE DSL® signals without loss. One advantage of this converter is that it requires only one cable. This reduces errors during cabling as well as space requirements. With HIPERFACE DSL®, many process parameters can be transmitted for real-time diagnostics. An external temperature sensor can also be connected for Condition Monitoring. Monitoring temperature, speed, supply voltage and RPM provides the data basis for predictive machine maintenance and optimizes the plant availability. The sCon® interface converter can be used in combination with the SES/SEM70 and SES/SEM90 motor feedback systems.



Retrofit in no time at all: It is possible to upgrade the SES/SEM product family to HIPERFACE DSL® at a later time without major adjustments to the motor.

Simple integration: With its space-saving design, the sCon® interface converter can be installed very well into the available motor assembly space – this makes it possible to integrate the sCon® into motors at a later time.



Simple cabling: By using existing male connectors and cables, the sCon® interface converter can be quickly and easily connected to existing HIPERFACE® devices.

Intelligent communication thanks to HIPERFACE DSL®

Data is transmitted into the drive system by the sCon® interface converter using the purely digital HIPERFACE DSL® motor feedback protocol. Only one cable is needed for the entire regulator communication. This reduces connection costs and energy consumption as well as the amount of cables needed on site, and also creates a better overview with lower space requirements.

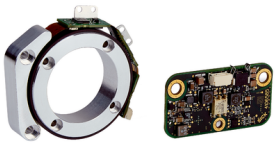
The HIPERFACE DSL® one cable technology saves costs, does not need much space, and is easy to implement while also offering very high investment security and machine safety.

More safety thanks to the HIPERFACE DSL®: Operational safety and investment security, fault-free system operation, quick and error-free work.

Makes real-time diagnostics possible: Thanks to the digital interface, large amounts of data can be permanently analyzed via Condition Monitoring.

Retrofit solution for existing applications with HIPERFACE® interface

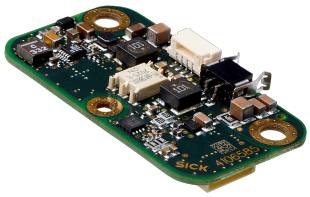
Thanks to the sCon® interface converter, the existing applications with HIPERFACE® interface can be quickly and easily upgraded to HIPERFACE DSL®. The interface converter can currently be used in combination with the SES/SEM70 and SES/SEM90 motor feedback systems. In the future, the converter will also be used in hollow shaft motors together with the STS motor feedback system from SICK.



The space-saving design of the STS motor feedback system and the sCon® interface converter enables compact motor design without loss of precision.

Mechanical multiturn and HIPERFACE DSL® – the compact solution for rugged direct drives in factory automation.

If you have products with HIPERFACE® interface that you would like to use together with the sCon® interface converter, please contact us.



Technical data overview

Communication interface	HIPERFACE DSL®
Connection type	Male connector, male connector, 4-pin, 8-pin, output, Input

Product description

Digital interfaces are currently a huge trend. SICK, one of the pioneers in this market, is providing an opportunity for transforming existing motor feedback systems with HIPERFACE® into the digital world with the sCon® interface converter. The sCon® converts HIPERFACE® signals into HIPERFACE-DSL® signals and can be combined with SES/SEM70, SES/SEM90 and STS motor feedback systems from SICK. The interface converter scores points with its compact design, which facilitates integration into the motor assembly area. It also has an external temperature input for measuring the winding temperature.

At a glance

- Interface at output: HIPERFACE DSL®
- Voltage supply: 7 VDC ... 12 VDC
- Operating temperature range: –30 °C ... +115 °C
- Enclosure rating: IP00
- Input connector: Male connector, 8-pin
- Output connector: Male connector, 4-pin
- Additional input for external temperature connector

Your benefits

- Simple upgrade of the motor to a digital interface without adjusting the motor design
- Retrofit solutions in the field are possible if the surroundings of the drive change (new servo drive only with digital protocols)
- The compact design enables simple integration into the motor assembly area.
- Thanks to the external temperature input, additional temperature values can be transmitted via the HIPERFACE-DSL® protocol – additional cabling is not required
-

Fields of application

- Ideal for integration into servomotors with hollow shaft
- Direct drives, e.g. torque motors
- Rotational and swivel axes, e.g. extruders
- Robot joints
- Drive systems for AGVs and mobile platforms

Ordering information

Other models and accessories ➜ www.sick.com/sCon

Communication interface	Connection type	Operating temperature range	Interpolation factor	Supported products	Type	Part no.
HIPERFACE DSL®	Male connector, male connector, 4-pin, 8-pin, output, Input	–30 °C ... +115 °C	13 bit	SES/SEM70 SES/SEM90	AD-HF2DSL02	2123676

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com