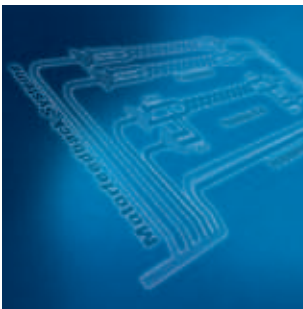


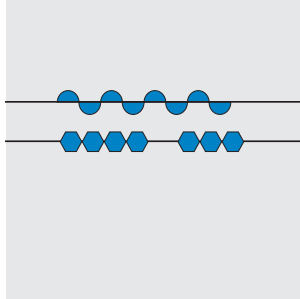
Motor Feedback Systems of the SinCos® series

With the innovative **HIPERFACE®** interface



The **SinCos®** product range from SICK-STEGMANN initiated the technological innovation for the most demanding requirements.

Electronic compatibility is ensured by the introduction of **HIPERFACE®** as the mandatory interface in respect of all physical parameters.



Use the benefits of **HIPERFACE®**:

- Only one speed controller interface for all applications
- Only one type of signal line between speed controller and signal encoder
- Manual parameterisation of the speed controller is no longer required (self-initialisation)



SEK/SEL37



16 sine/cosine periods

Motor Feedback Systems

- Tapered shaft
- Measurement step at interpolation of the sine/cosine signals with e.g. 12 bits = 20 angular seconds
- 4,096 revolutions can be measured (Multiturn)
- Programming of the positional value
- Electronic type label



SEK/SEL52



16 sine/cosine periods

Motor Feedback Systems

- Hollow shaft \varnothing 12.7 mm tapered shaft, shoulder clamping \varnothing 12.7 mm
- Measurement step at interpolation of the sine/cosine signals with e.g. 12 bits = 20 angular seconds
- 4,096 revolutions can be measured (Multiturn)
- Programming of the positional value
- Electronic type label

Technical data

	SEK/SEL37	SEK/SEL52
Number of sine/cosine periods per revolution	16	16
Total number of steps via RS 485	Single SEK: 512 Multi SEL: 2,097,152 = 512 x 4,096	Single SEK: 512 Multi SEK: 2,097,152 = 512 x 4,096
Linearity		
integral	± 288 angular seconds	± 288 angular seconds
differential	± 144 angular seconds	± 72 angular seconds
Working speed*	6,000 rpm ⁻¹	6,000 rpm ⁻¹
Working temperature range	Single: -40 ... +115 °C Multi: -20 ... +115 °C	Single: -40 ... +110 °C Multi: -20 ... +115 °C
Operating voltage range	7 ... 12 V	7 ... 12 V
Type ID	Single SEK: 42h Multi SEL: 47h	Single SEK: 42h Multi SEL: 47h

For detailed information see www.sick.com

* up to which the absolute position can be reliably produced