



SEK90, SEK160, SEK260

THE ROBUST TURN & PLAY SOLUTION FOR DIRECT DRIVES
WITH HIPERFACE® INTERFACE

Motor feedback system rotary HIPERFACE®

SICK
Sensor Intelligence.

THE ROBUST TURN & PLAY SOLUTION FOR DIRECT DRIVES WITH HIPERFACE® INTERFACE



Product description

The trend is clear: the future belongs to compact and robust direct drives. With the SEK90 hollow-shaft motor feedback systems SICK has perfected the concept of the direct drive. The SEK90 with holistic scanning can be mounted directly onto the drive shaft without any mounting tools. A toothed belt and transmission elements such as gearbox or coupling are no longer necessary. The simplified, compact design is wear-free

and hence helps to reduce maintenance costs. Since no ball bearings are used either, heat generation is drastically reduced. The minimal dimensions allow for reduced space requirements and also make the device lighter, thus allowing for efficient space utilization. The SEK90 motor feedback systems were developed specifically for direct drives and support the advantages of direct drives all along the line.

At a glance

- HIPERFACE® motor feedback systems for large hollow shaft and torque motors
- 64 sine/cosine periods per revolution
- Absolute position with a resolution of 2,048 increments per revolution
- Programming of the position value and electronic type label
- HIPERFACE® interface
- Turn & play – for simple assembly without tools
- High resistance to shock and vibration due to holistic scanning
- Bearingless motor feedback system

Your benefits

- Direct seat on the drive shaft renders transmission elements such as toothed belt or coupling superfluous
- The simplified, compact design is wear-free, thus helping to reduce maintenance costs
- Measuring accuracy is no longer affected by magnetic fields thanks to the capacitive measuring principle
- Time-saving mounting, since no mounting tools are required: simply fit it on, turn it and start
- The minimal dimensions enable you to save space and weight, allowing for a more efficient use of space



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→ www.mysick.com/en/SEK90

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Detailed technical data

Performance

Number of sine/cosine periods per revolution	64
Total number of steps	2,048 via RS485
Measuring step	5 angular seconds at interpolation of the sine/cosine signals with e.g. 12 Bit
Integral non-linearity typ.	± 72 angular seconds (Error limits for evaluating sine/cosine period), typical values at nominal position ± 0,1 mm and + 20 °C
Differential non-linearity	± 45 angular seconds (Non-linearity within a sine/cosine period), typical values at nominal position ± 0,1 mm and + 20 °C
Working speed	3,000 min ⁻¹ , up to which the absolute position can be reliably produced

Interfaces

Type of code for the absolute value	Binary
Code sequence	Increasing, for clockwise shaft rotation, looking in direction "A" (see dimensional drawing)
Interface signals	Process data channel SIN, REFSIN, COS, REFCOS: analog, differential Parameter channel RS 485: digital
Available memory area within E ² PROM 2048	1,792 Byte
Latency	100 µs

Electrical data

Operating voltage range/supply voltage	7 V DC ... 12 V DC
Recommended supply voltage	8 V DC
Operating power consumption (no load)	150 mA

Mechanical data

Shaft version	Through hollow shaft
Dimensions	See dimensional drawing
Mass	0.13 kg
Moment of inertia of the rotor	3,4 x 10 ⁻⁵ kgm ²
Maximum operating speed	3,000 min ⁻¹
Maximum angular acceleration	≤ 50,000 rad/s ²
Permissible shaft movement, radial, static	± 0.2 mm ¹⁾
Permissible shaft movement, radial, dynamic	± 0.05 mm ¹⁾
Permissible axial shaft movement	± 0.5 mm ¹⁾
Connection type	Connector, 8-pin

¹⁾ Relative to the installation position, as described in the assembly instructions (order nr. 8013609) and in the proposed customer fitting.

Ambient conditions

Working temperature range	-30 °C ... +115 °C
Storage temperature range	-50 °C ... +125 °C, without package
Relative humidity / Condensation	90 %, Condensation not permitted
Resistance to shocks	100 g / 6 ms / according to EN 60068-2-27
Resistance to vibration	30 g / 10 Hz ... 2,000 Hz / according to EN 60068-2-6
EMC	(according to EN 61000-6-2 and EN 61000-6-3) ¹⁾
Enclosure rating	IP 40, with mating connector inserted and closed cover (according to IEC 60529)

¹⁾ The EMC according to the standards quoted is achieved when the motor feedback system is mounted in an electrically conductive housing, which is connected to the central earthing point of the motor controller via a cable screen. Users must perform their own tests when other screen designs are used.

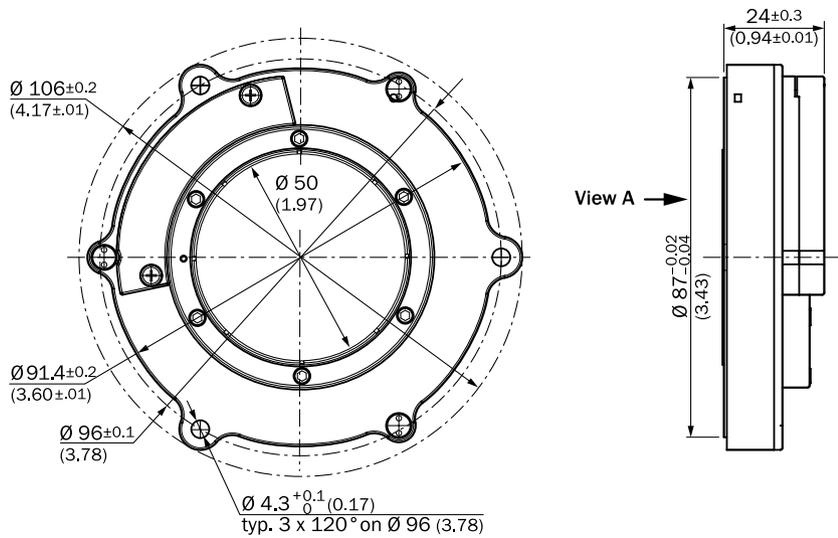
Ordering information

Other models available at www.mysick.com/en/SEK90

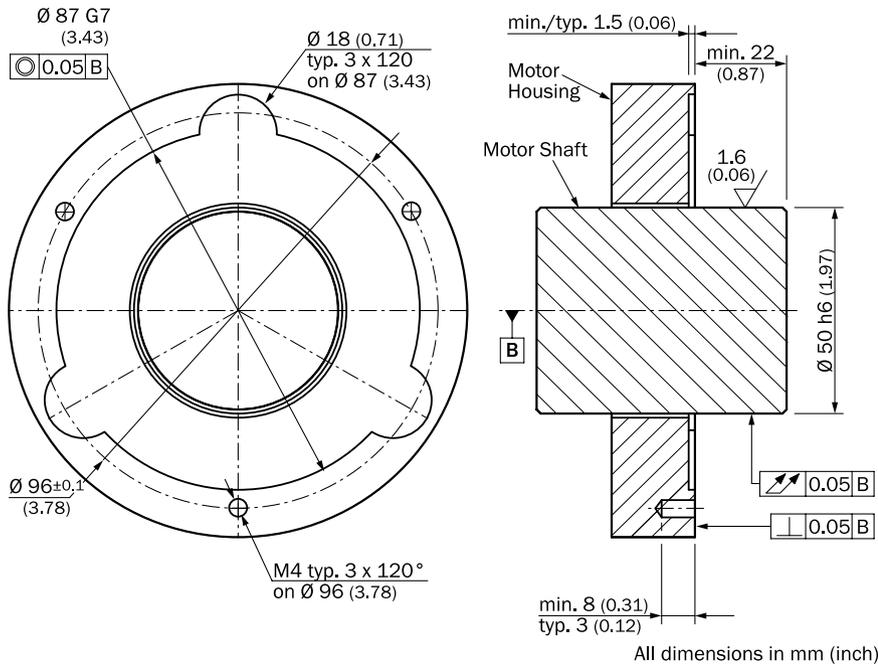
Data acquisition Singleturn

Connection type	Model name	Part no.
Male connector	SEK90-HN050AK02	1038271

Dimensional drawings (Dimensions in mm (inch))

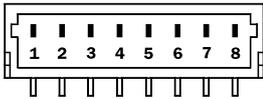


Assembly note



Connection type

View of the plug-in face



Pin	Signal	Colour of wires	Explanation
1	U_s	red	Supply voltage 7 ... 12 V
2	+ SIN	white	Process data channel
3	REFSIN	brown	Process data channel
4	+ COS	pink	Process data channel
5	REFCOS	black	Process data channel
6	GND	blue	Ground connection
7	Data +	grey or yellow	RS485 parameter channel
8	Data -	green or purple	RS485 parameter channel

Accessories

Programming and configuration tools

Accessory category	Brief description	Type	Part no.
Other accessories	Programming tool for HIPERFACE® motor feedback systems	PGT-03-S	1034252

Plug connectors and cables

Connecting cable (female connector-open)

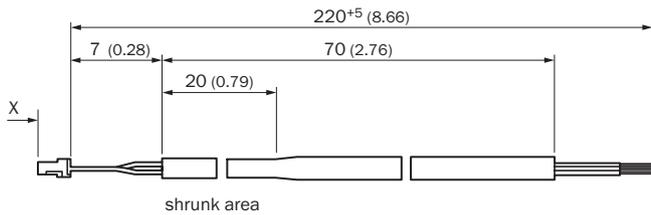
Accessory category	Brief description	Type	Part no.
Connection systems	Female connector, JST, 8-pin, straight, cable, HIPERFACE®, unshielded, 0.2 m	DOL-0J08-G0M2XB6	2031086
	Female connector, JST, 8-pin, straight, cable, HIPERFACE®, shielded, 0.5 m	DOL-0J08-G0M5XB6	2056250

Cable (open-open)

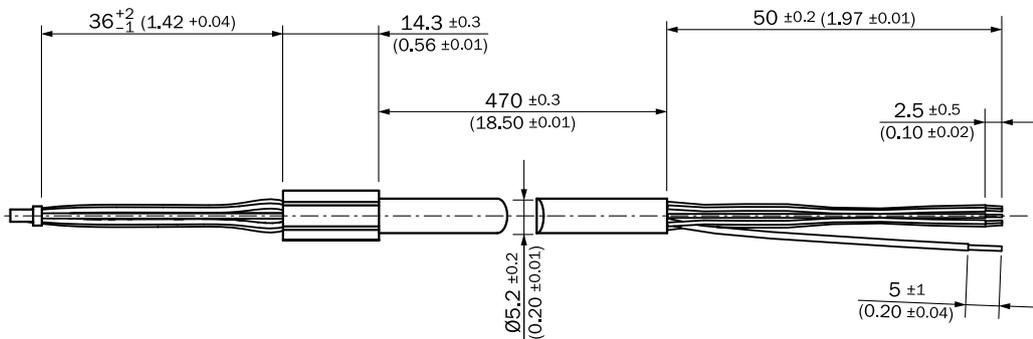
Accessory category	Brief description	Type	Part no.
Connection systems	Cable, cable, HIPERFACE®, HIPERFACE®, drag chain use, PUR halogen-free, shielded	LTG-2708-MW	6028361

Dimensional drawings Plug connectors and cables Connecting cable (female connector-open)

DOL-0J08-G0M2XB6



DOL-0J08-G0M5XB6



THE ROBUST TURN & PLAY SOLUTION FOR DIRECT DRIVES WITH HIPERFACE® INTERFACE



Product description

The trend is clear: the future belongs to compact and robust direct drives. With the SEK160 hollow-shaft motor feedback systems SICK has perfected the concept of the direct drive. The SEK160 with holistic scanning can be mounted directly onto the drive shaft without any mounting tools. A toothed belt and transmission elements such as gearbox or coupling are no longer necessary. The simplified, compact

design is wear-free and hence helps to reduce maintenance costs. Since no ball bearings are used either, heat generation is drastically reduced. The minimal dimensions allow for reduced space requirements and also make the device lighter, thus allowing for efficient space utilization. The SEK160 motor feedback systems were developed specifically for direct drives and support the advantages of direct drives all along the line.

At a glance

- HIPERFACE® motor feedback systems for large hollow shaft and torque motors
- 128 sine/cosine periods per revolution
- Absolute position with a resolution of 4,096 increments per revolution
- Programming of the position value and electronic type label
- HIPERFACE® interface
- Turn & play – for simple assembly without tools
- High resistance to shock and vibration due to holistic scanning
- Bearingless motor feedback system

Your benefits

- Direct seat on the drive shaft renders transmission elements such as toothed belt or coupling superfluous
- The simplified, compact design is wear-free, thus helping to reduce maintenance costs
- Measuring accuracy is no longer affected by magnetic fields thanks to the capacitive measuring principle
- Time-saving mounting, since no mounting tools are required: simply fit it on, turn it and start
- The minimal dimensions enable you to save space and weight, allowing for a more efficient use of space.



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→ www.mysick.com/en/SEK160

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Detailed technical data

Performance

Number of sine/cosine periods per revolution	128
Total number of steps	4,096 via RS485
Measuring step	2.5 angular seconds at interpolation of the sine/cosine signals with e.g. 12 Bit
Integral non-linearity typ.	± 36 angular seconds (Error limits for evaluating sine/cosine period), typical values at nominal position ± 0,1 mm and + 20 °C
Differential non-linearity	± 21 angular seconds (Non-linearity within a sine/cosine period), typical values at nominal position ± 0,1 mm and + 20 °C
Working speed	1,500 min ⁻¹ , up to which the absolute position can be reliably produced

Interfaces

Type of code for the absolute value	Binary
Code sequence	Increasing, for clockwise shaft rotation, looking in direction "A" (see dimensional drawing)
Interface signals	Process data channel SIN, REFSIN, COS, REFCOS: analog, differential Parameter channel RS 485: digital
Available memory area within E ² PROM 2048	1,792 Byte
Latency	100 µs

Electrical data

Operating voltage range/supply voltage	7 V DC ... 12 V DC
Recommended supply voltage	8 V DC
Operating power consumption (no load)	150 mA

Mechanical data

Shaft version	Through hollow shaft
Dimensions	See dimensional drawing
Mass	0.27 kg
Moment of inertia of the rotor	28,6 x 10 ⁻⁵ kgm ²
Maximum operating speed	1,500 min ⁻¹
Maximum angular acceleration	≤ 28,000 rad/s ²
Permissible shaft movement, radial, static	± 0.2 mm ¹⁾
Permissible shaft movement, radial, dynamic	± 0.05 mm ¹⁾
Permissible axial shaft movement	± 0.5 mm ¹⁾
Connection type	Connector, 8-pin

¹⁾ Relative to the installation position, as described in the assembly instructions (order nr. 8013609) and in the proposed customer fitting.

Ambient conditions

Working temperature range	-30 °C ... +115 °C
Storage temperature range	-50 °C ... +125 °C, without package
Relative humidity / Condensation	90 %, Condensation not permitted
Resistance to shocks	100 g / 6 ms / according to EN 60068-2-27
Resistance to vibration	30 g / 10 Hz ... 2,000 Hz / according to EN 60068-2-6
EMC	(according to EN 61000-6-2 and EN 61000-6-3) ¹⁾
Enclosure rating	IP 40, with mating connector inserted and closed cover (according to IEC 60529)

¹⁾ The EMC according to the standards quoted is achieved when the motor feedback system is mounted in an electrically conductive housing, which is connected to the central earthing point of the motor controller via a cable screen. Users must perform their own tests when other screen designs are used.

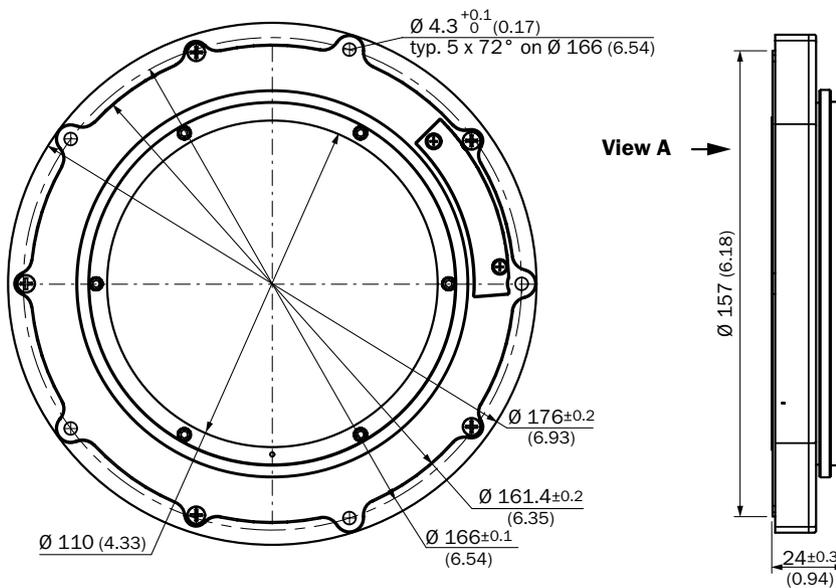
Ordering information

Other models available at www.mysick.com/en/SEK160

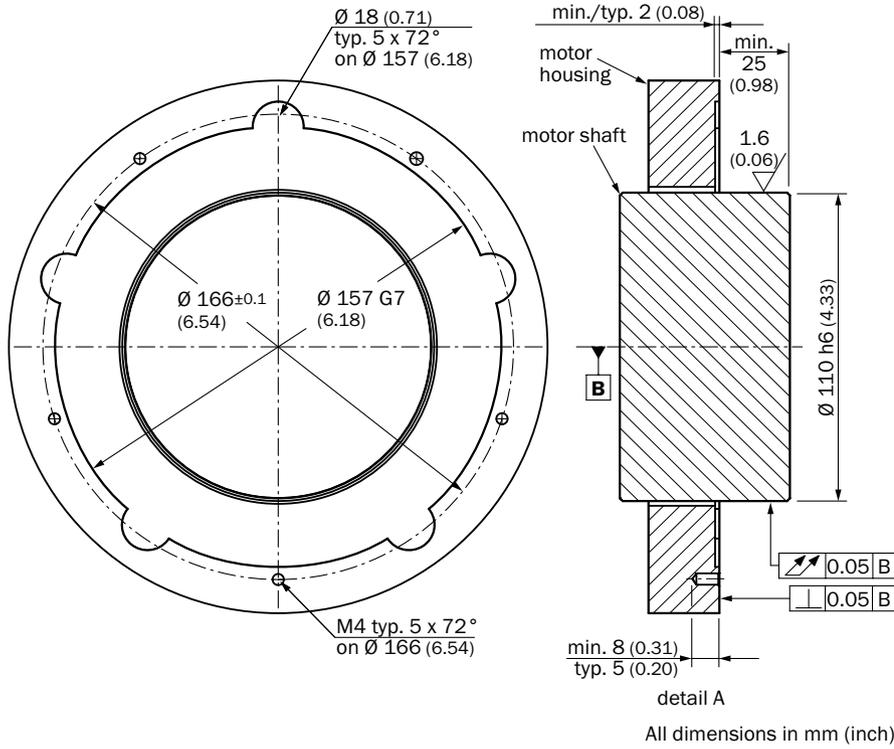
Data acquisition Singleturn

Connection type	Model name	Part no.
Male connector	SEK160-HN110AK02	1038272

Dimensional drawings (Dimensions in mm (inch))

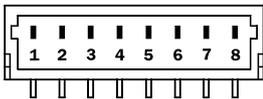


Assembly note



Connection type

View of the plug-in face



Pin	Signal	Colour of wires	Explanation
1	U_s	red	Supply voltage 7 ... 12 V
2	+ SIN	white	Process data channel
3	REFSIN	brown	Process data channel
4	+ COS	pink	Process data channel
5	REFCOS	black	Process data channel
6	GND	blue	Ground connection
7	Data +	grey or yellow	RS485 parameter channel
8	Data -	green or purple	RS485 parameter channel

Accessories

Programming and configuration tools

Accessory category	Brief description	Type	Part no.
Other accessories	Programming tool for HIPERFACE® motor feedback systems	PGT-03-S	1034252

Plug connectors and cables

Connecting cable (female connector-open)

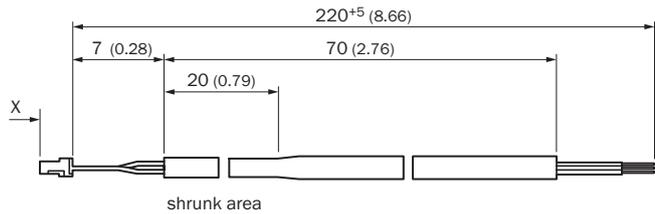
Accessory category	Brief description	Type	Part no.
Connection systems	Female connector, JST, 8-pin, straight, cable, HIPERFACE®, unshielded, 0.2 m	DOL-0J08-G0M2XB6	2031086
	Female connector, JST, 8-pin, straight, cable, HIPERFACE®, shielded, 0.5 m	DOL-0J08-G0M5XB6	2056250

Cable (open-open)

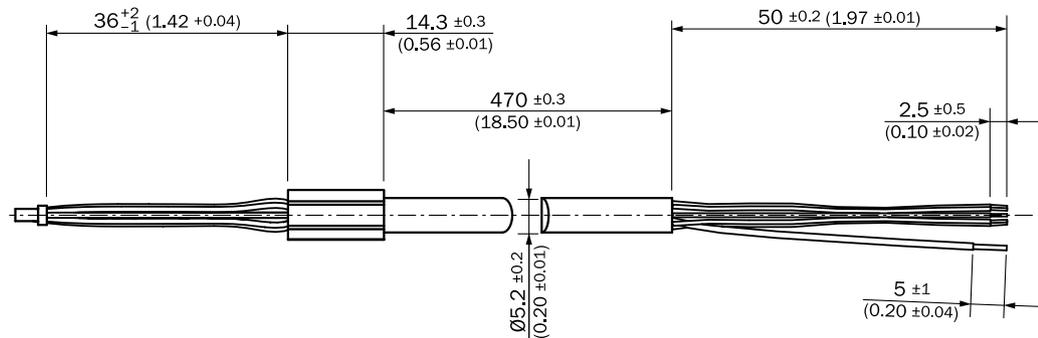
Accessory category	Brief description	Type	Part no.
Connection systems	Cable, cable, HIPERFACE®, HIPERFACE®, drag chain use, PUR halogen-free, shielded	LTG-2708-MW	6028361

Dimensional drawings Plug connectors and cables Connecting cable (female connector-open)

DOL-0J08-G0M2XB6



DOL-0J08-G0M5XB6



THE ROBUST TURN & PLAY SOLUTION FOR DIRECT DRIVES WITH HIPERFACE® INTERFACE



Product description

The trend is clear: the future belongs to compact and robust direct drives. With the SEK260 hollow-shaft motor feedback systems SICK has perfected the concept of the direct drive. The SEK260 with holistic scanning can be mounted directly onto the drive shaft without any mounting tools. A toothed belt and transmission elements such as gearbox or coupling are no longer necessary. The simplified, compact

design is wear-free and hence helps to reduce maintenance costs. Since no ball bearings are used either, heat generation is drastically reduced. The minimal dimensions allow for reduced space requirements and also make the device lighter, thus allowing for efficient space utilization. The SEK260 motor feedback systems were developed specifically for direct drives and support the advantages of direct drives all along the line.

At a glance

- HIPERFACE® motor feedback systems for large hollow shaft and torque motors
- 256 sine/cosine periods per revolution
- Absolute position with a resolution of 8,192 increments per revolution
- Programming of the position value and electronic type label
- HIPERFACE® interface
- Turn & play – for simple assembly without tools
- High resistance to shock and vibration due to holistic scanning
- Bearingless motor feedback system

Your benefits

- Direct seat on the drive shaft renders transmission elements such as toothed belt or coupling superfluous
- The simplified, compact design is wear-free, thus helping to reduce maintenance costs
- Measuring accuracy is no longer affected by magnetic fields thanks to the capacitive measuring principle
- Time-saving mounting, since no mounting tools are required: simply fit it on, turn it and start
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→ www.mysick.com/en/SEK260

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Detailed technical data

Performance

Number of sine/cosine periods per revolution	256
Total number of steps	8,192 via RS485
Measuring step	1.3 angular seconds at interpolation of the sine/cosine signals with e.g. 12 Bit
Integral non-linearity typ.	± 27 angular seconds (Error limits for evaluating sine/cosine period), typical values at nominal position ± 0,1 mm and + 20 °C
Differential non-linearity	± 10 angular seconds (Non-linearity within a sine/cosine period), typical values at nominal position ± 0,1 mm and + 20 °C
Working speed	750 min ⁻¹ , up to which the absolute position can be reliably produced

Interfaces

Type of code for the absolute value	Binary
Code sequence	Increasing, for clockwise shaft rotation, looking in direction "A" (see dimensional drawing)
Interface signals	Process data channel SIN, REFSIN, COS, REFCOS: analog, differential Parameter channel RS 485: digital
Available memory area within E ² PROM 2048	1,792 Byte
Latency	100 µs

Electrical data

Operating voltage range/supply voltage	7 V DC ... 12 V DC
Recommended supply voltage	8 V DC
Operating power consumption (no load)	150 mA

Mechanical data

Shaft version	Through hollow shaft
Dimensions	See dimensional drawing
Mass	0.6 kg
Moment of inertia of the rotor	3,1 x 10 ⁻³ kgm ²
Maximum operating speed	750 min ⁻¹
Maximum angular acceleration	≤ 23,000 rad/s ²
Permissible shaft movement, radial, static	± 0.2 mm ¹⁾
Permissible shaft movement, radial, dynamic	± 0.05 mm ¹⁾
Permissible axial shaft movement	± 0.5 mm ¹⁾
Connection type	Connector, 8-pin

¹⁾ Relative to the installation position, as described in the assembly instructions (order nr. 8013609) and in the proposed customer fitting.

Ambient conditions

Working temperature range	-30 °C ... +115 °C
Storage temperature range	-50 °C ... +125 °C, without package
Relative humidity / Condensation	90 %, Condensation not permitted
Resistance to shocks	100 g / 6 ms / according to EN 60068-2-27
Resistance to vibration	30 g / 10 Hz ... 2,000 Hz / according to EN 60068-2-6
EMC	(according to EN 61000-6-2 and EN 61000-6-3) ¹⁾
Enclosure rating	IP 40, with mating connector inserted and closed cover (according to IEC 60529)

¹⁾ The EMC according to the standards quoted is achieved when the motor feedback system is mounted in an electrically conductive housing, which is connected to the central earthing point of the motor controller via a cable screen. Users must perform their own tests when other screen designs are used.

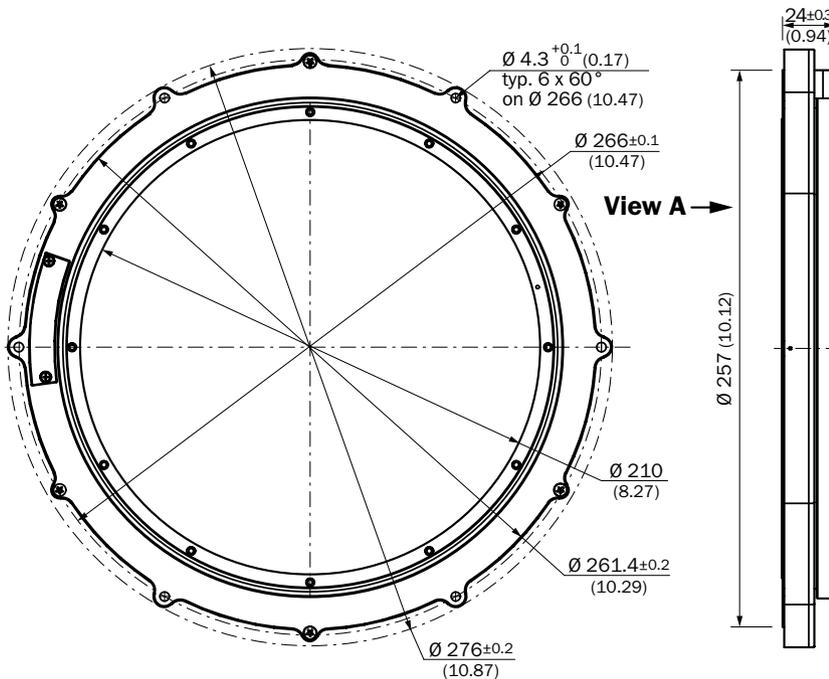
Ordering information

Other models available at www.mysick.com/en/SEK260

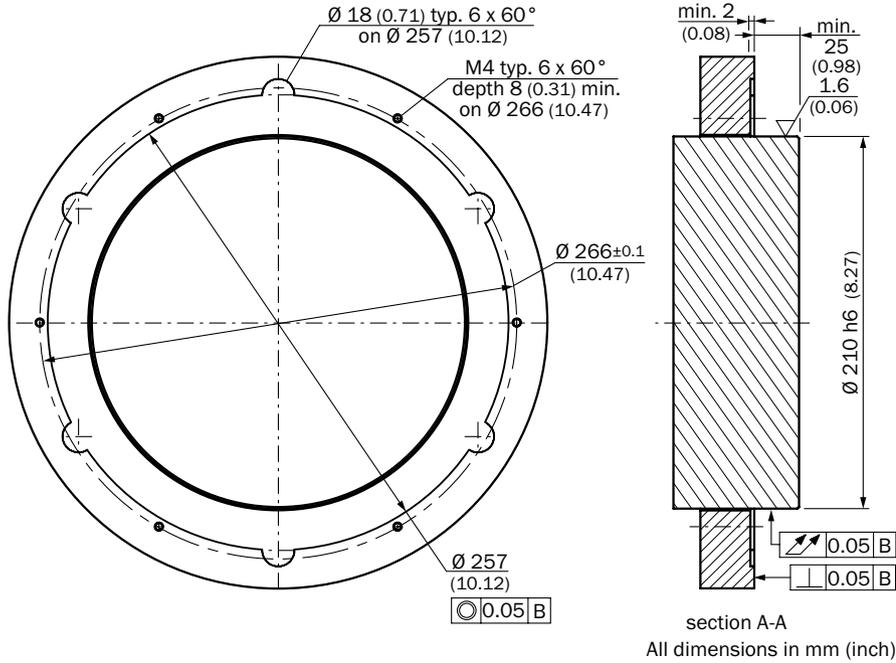
Data acquisition Singleturn

Connection type	Model name	Part no.
Male connector	SEK260-HN210AK02	1053596

Dimensional drawings (Dimensions in mm (inch))

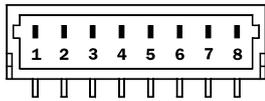


Assembly note



Connection type

View of the plug-in face



Pin	Signal	Colour of wires	Explanation
1	U_s	red	Supply voltage 7 ... 12 V
2	+ SIN	white	Process data channel
3	REFSIN	brown	Process data channel
4	+ COS	pink	Process data channel
5	REFCOS	black	Process data channel
6	GND	blue	Ground connection
7	Data +	grey or yellow	RS485 parameter channel
8	Data -	green or purple	RS485 parameter channel

Accessories

Programming and configuration tools

Accessory category	Brief description	Type	Part no.
Other accessories	Programming tool for HIPERFACE® motor feedback systems	PGT-03-S	1034252

Plug connectors and cables

Connecting cable (female connector-open)

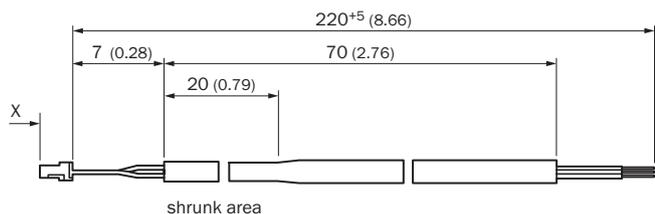
Accessory category	Brief description	Type	Part no.
Connection systems	Female connector, JST, 8-pin, straight, cable, HIPERFACE®, unshielded, 0.2 m	DOL-0J08-G0M2XB6	2031086
	Female connector, JST, 8-pin, straight, cable, HIPERFACE®, shielded, 0.5 m	DOL-0J08-G0M5XB6	2056250

Cable (open-open)

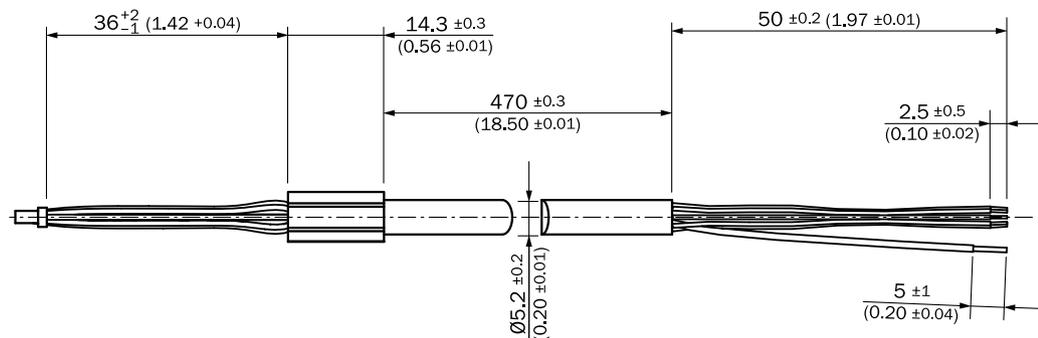
Accessory category	Brief description	Type	Part no.
Connection systems	Cable, cable, HIPERFACE®, HIPERFACE®, drag chain use, PUR halogen-free, shielded	LTG-2708-MW	6028361

Dimensional drawings Plug connectors and cables Connecting cable (female connector-open)

DOL-0J08-G0M2XB6

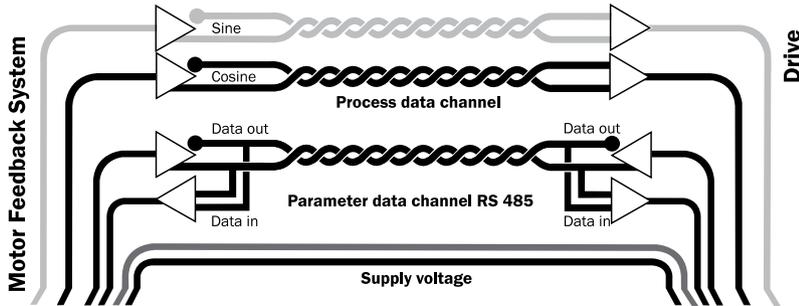


DOL-0J08-G0M5XB6

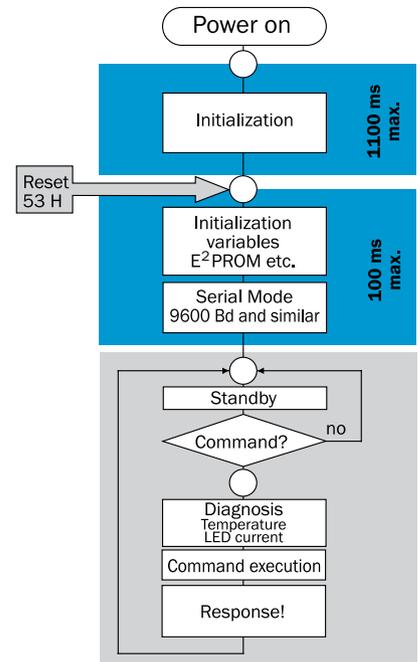


Electrical interface

- Secure data transmission
- High information content
- Electronic type label
- Just 8 leads
- Bus-compatible parameter channel
- Process channel in real time

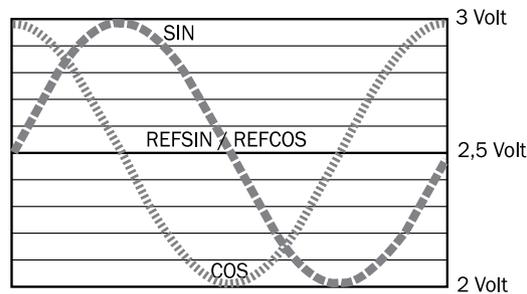


HIPERFACE® Starting time



Signal specification of the process channel

Signal diagram for clockwise rotation of shaft looking in direction "A"



1 period = 64/128/256

Access to the process data used for speed control, i.e. to the sine and cosine signals, is practically always "online". When the supply voltage is applied, the speed controller has access to this information at any time. Sophisticated technology guarantees stable amplitudes of the analogue signals across all specified environmental conditions, with a maximum variation of only ± 20%.

CAUTION:
 No RS485 communication is possible during the phases highlighted in blue
 After a software reset, it will take approx. 150 ms until the SIN/COS signals reach an amplitude of 1 Vpp ± 20%.

Characteristics applicable to all stated ambient conditions	
Signal	Values/unit
Signal peak, peak V _{pp} of SIN, COS	0.8 ... 1.2 V
Signal offset REFSIN, REFCOS	2.2 ... 2.8 V

Type-specific settings	SEK90/160/260
Type ID (command 52h)	FFh
Free E ² PROM [bytes]	1,792
Address	40h
Mode_485 ¹⁾²⁾	E4h
Codes 0 to 3	55h
Counter	0

Overview of supported commands			SEK90/160/260
Command byte	Function	Code 0 ³⁾	Comment
42h	Read position (5 bits per sine/cosine period)		11 Bit / 12 Bit / 13 Bit
43h	Set position	■	
44h	Read analog value		Channel number FOH ⁴⁾ 48h Temperature [°C]
46h	Read counter		
47h	Increase counter		
49h	Delete counter	■	
4Ah	Read data		
4Bh	Store data		
4Ch	Determine status of a data field		
4Dh	Create data field		
4Eh	Determine available memory area		
4Fh	Change access code		
50h	Read encoder status		
52h	Read out type label		Encoder type=FFh
53h	Encoder reset		
55h	Allocate encoder address	■	
56h	Read serial number and program version		

¹⁾ Default interface settings can not be changed (e.g. baudrate, timeout or parity bit)

²⁾ When using the motor feedback systems SEK90/160/260, please ensure that the controller's auto-baud function is not enabled, since these motor feedback systems compensate for minor variations when transmitting at a baud rate of 9600.

³⁾ The commands thus labelled include the parameter "Code 0". Code 0 is a byte inserted into the protocol, for additional safeguarding of vital system parameters against accidental overwriting. When shipped, "Code 0" = 55h.

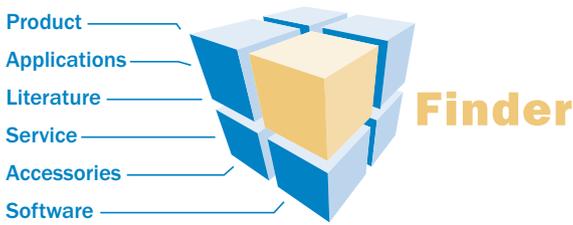
⁴⁾ Temperature compatible with SCx (encoder temperature [°C] *2.048 - 40)

Overview of status messages			
	Status code	Description	SEK90/160/260
Error type	00h	The encoder has not detected any faults	■
Initialization	01h	Incorrect alignment data	■
	02h	Incorrect internal angular offset	■
	03h	Data field partitioning table destroyed	■
	04h	Analog limit values not available	■
	05h	Internal I ² C bus inoperative	■
	06h	Internal checksum error	■
Protocol	07h	Encoder reset occurred as a result of program monitoring	■
	09h	Parity error	■
	0Ah	Checksum of transmitted data is incorrect	■
	0Bh	Unknown command code	■
	0Ch	Number of transmitted data is incorrect	■
	0Dh	Transmitted command argument is not allowed	■
Data	0Eh	The selected data field may not be written to	■
	0Fh	Incorrect access code	■
	10h	Size of specified data field cannot be changed	■
	11h	Specified word address lies outside the data field	■
	12h	Access to non-existent data field	■
Position	1Fh	Speed too high, no position formation possible	■
	20h	Singleturn position unreliable	■
	21h	Multiturn position error	
	22h	Multiturn position error	
	23h	Multiturn position error	
Other	1Ch	Value monitoring of the analog signals (process data)	■
	1Eh	Encoder temperature critical	■
	08h	Counter overflow	■

For more information on the interface see HIPERFACE® - description, part no. 8010701

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FOR SAFETY AND PRODUCTIVITY: SICK LIFETIME SERVICES

SICK LifeTime Services is a comprehensive set of high-quality services provided to support the entire life cycle of products and applications from system design all the way to upgrades. These services increase the safety of people, boost the productivity of machines and serve as the basis for our customers’ sustainable business success.



Consulting & Design

Globally available experts for cost-effective solutions



Product & System Support

Fast and reliable, by telephone or on location



Verification & Optimization

Checks and recommendations for increased availability



Upgrade & Retrofits

Uncovers new potential for machines and systems



Training & Education

Employee qualification for increased competitiveness

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for factory, logistics, and process automation. With more than 6,000 employees and over 40 subsidiaries worldwide, we are always close to our customers. 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 various 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 round out 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:

Australia, Austria, Belgium/Luxembourg, Brazil, Czech Republic, Canada, China, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Israel, Italy, Japan, Mexico, Netherlands, Norway, Poland, Romania, Russia, Singapore, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Turkey, United Arab Emirates, USA

Please find detailed addresses and additional representatives and agencies in all major industrial nations at: www.sick.com