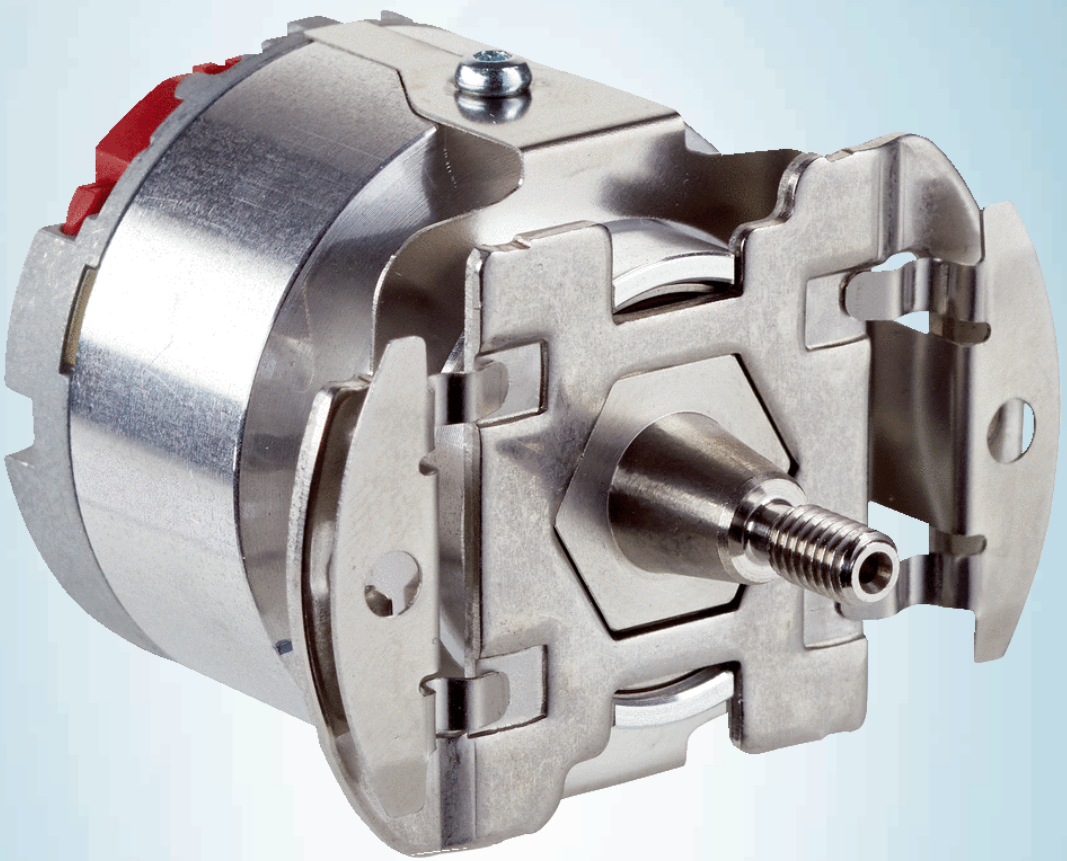
Product overview



EKS/EKM36-S

Safe speed measurement with HIPERFACE DSL® for standard servo applications

SICK
Sensor Intelligence.

Technical data overview

Type	For integration
Model	Absolute Singleturn / Absolute Multiturn (depends on variant)
Communication interface	HIPERFACE DSL®
Resolution per revolution	18 bit / 20 bit (depends on variant)
Safety system	✓
Mechanical interface	Tapered shaft
Connection type	Male connector, 4-pin
Available memory area	8,192 Byte
Measurement principle	Optical

Product description

The EKS/EKM36-S safe motor feedback system with SIL2 and Performance Level d rating accurately measures the position and speed of the servo drive system – in the packaging industry and robotics or in vehicles. Digital communication via HIPERFACE DSL® offers the advantage of one cable technology and supports the automated commissioning of the application. Functionally safe applications can be easily implemented thanks to precise speed detection.

At a glance

- Safe motor feedback system with HIPERFACE DSL® interface
- Compact, rugged housing with 36 mm diameter
- Up to 20-bit resolution per revolution and 4,096 revolutions with the multiturn system
- Facility for connecting an external temperature sensor
- E²Prom with 8 KByte free memory space
- Service life histogram

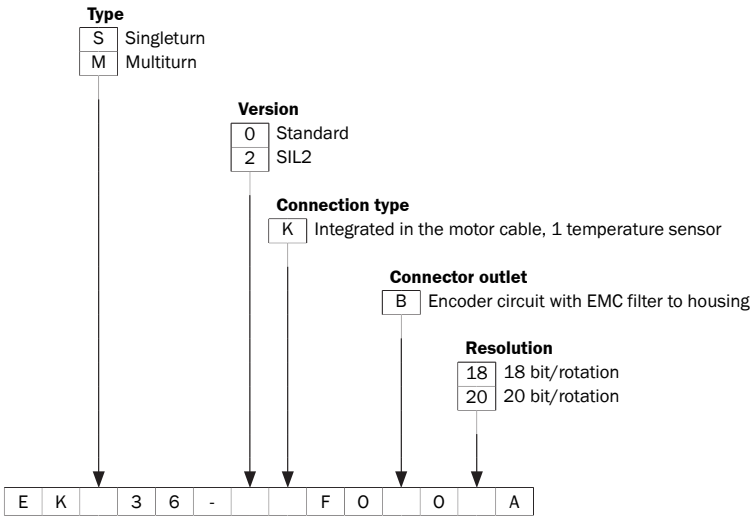
Your benefits

- Exclusively digital data transmission with no analog components on the controller side
- The absence of a separate encoder cable reduces costs
- Minimal wiring effort thanks to integration of the encoder communication into the motor cable

Type code

Other models and accessories ➜ www.sick.com/EKS_EKM36-S

EKS/EKM36



Ordering information

Other models and accessories ➜ www.sick.com/EKS_EKM36-S

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Singleturn
- **Type:** for integration
- **Safety system:** ✓
- **Mechanical design:** tapered shaft
- **Connection type:** male connector, 4-pin
- **Operating temperature range:** –20 °C ... +115 °C (Given typical thermal connection between motor flange and encoder stator coupling. The max. internal sensor temperature may not exceed 125 °C.)

Resolution per revolution	Type	Part no.
18 bit	EKS36-2JF0A018A	1052022
	EKS36-2JF0A020A	1054319
	EKS36-2KF0A018A	1054315
	EKS36-2KF0A020A	1054323
	EKS36-2KF0B018A	1084231
20 bit	EKS36-2KF0B020A	1084232

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Multiturn
- **Type:** for integration
- **Safety system:** ✓
- **Mechanical design:** tapered shaft
- **Connection type:** male connector, 4-pin
- **Operating temperature range:** –20 °C ... +115 °C (Given typical thermal connection between motor flange and encoder stator coupling. The max. internal sensor temperature may not exceed 125 °C.)

Resolution per revolution	Type	Part no.
18 bit	EKM36-2JF0A018A	1052023
	EKM36-2JF0A020A	1054320
	EKM36-2KF0A018A	1054316
	EKM36-2KF0A020A	1054324
	EKM36-2KF0B018A	1084235
20 bit	EKM36-2KF0B020A	1084236

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