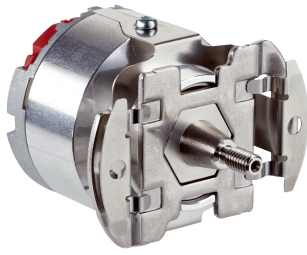


EKS/EKM36

Safe speed measurement with HIPERFACE DSL® for standard servo applications

SICK
Sensor Intelligence.



Technical data overview

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

Product description

From a mechanical point of view, the EKS/EKM36 motor feedback system is based on the proven 36 mm design. This design is both compact and rugged, and has been proven many times over in a wide range of applications and surroundings. In combination with an absolute location indicator system with a resolution of up to 20 Bits per revolution and a maximum of 4,096 revolutions, this design is unique in its class.

At a glance

- Motor feedback system with HIPERFACE DSL® interface
- Compact, rugged design with 36 mm diameter
- Up to 20 bit resolution per revolution and 4,096 revolutions measurable with the multiturn system
- Facility for connecting an external temperature sensor
- E²Prom with 8 KB of free memory space
- SIL2-certified (only applies to EKS/EKM36-2...)
- Service life histogram

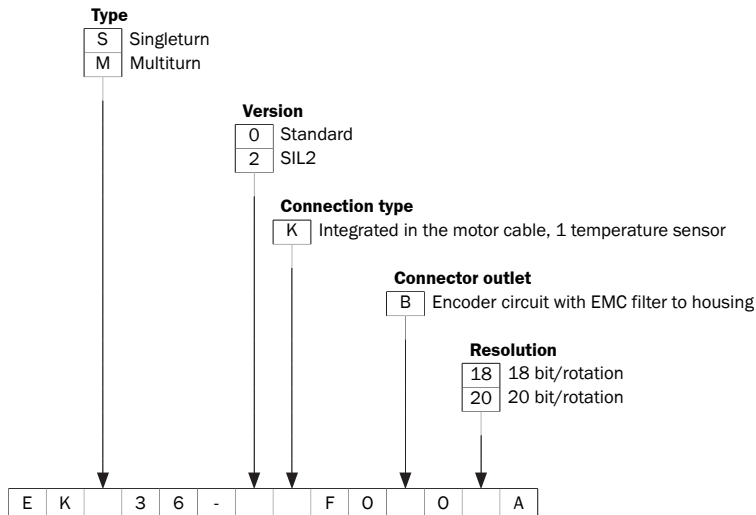
Your benefits

- Saving all analog components on the controller part due to exclusively digital data transmission
- Enormous cost saving as the separate encoder cable is longer necessary, data transmitted synchronously to the controller cycle
- Minimal cabling thanks to integration of the encoder communication into the motor cable
- Optimization of the controller circuit via automated synchronization with the controller cycle

Type code

Other models and accessories → www.sick.com/EKS_EKM36

EKS/EKM36



Ordering information

Other models and accessories → www.sick.com/EKS_EKM36

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Singleturn
- **Type:** for integration
- **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	Safety system	Type	Part no.
18 bit	✓	EKS36-2KF0B018A	1084231
	-	EKS36-0KF0B018A	1084229
20 bit	✓	EKS36-2KF0B020A	1084232
	-	EKS36-0KF0B020A	1084230

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Multiturn
- **Type:** for integration
- **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	Safety system	Type	Part no.
18 bit	✓	EKM36-2KF0B018A	1084235
	-	EKM36-0KF0B018A	1084233
20 bit	✓	EKM36-2KF0B020A	1084236
	-	EKM36-0KF0B020A	1084234

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