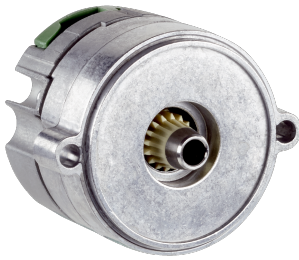


EES/EEM37

Safe absolute position with HIPERFACE DSL® for rugged 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	15 bit / 17 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

Product description

The digital HIPERFACE DSL® interface has played a significant role in shaping drive technology over recent years. The EES/EEM37 motor feedback systems featuring HIPERFACE DSL® will play an important role in drive technology and complete the lower power range within the SICK product portfolio. Fitted with a standardized mechanical interface, they offer the utmost flexibility when used in conjunction with the EKS/EKM36 and EFS/EFM50 motor feedback systems. EES/EEM37 feature a bearing-free structure and outstanding resistance to shock and vibrations. Additional features, such as secure singleturn absolute position or an electronic type label, make them the ideal solution for a wide range of applications, e.g., in the packaging industry or robotics.

At a glance

- Capacitive motor feedback system with HIPERFACE DSL®
- Up to 17-bit resolution per revolution and 4,096 revolutions with the multiturn system
- Certified according to SIL2 and PL d
- Status monitoring and mission time histogram; temperature, speed, and supply voltage are stored throughout the service life

Your benefits

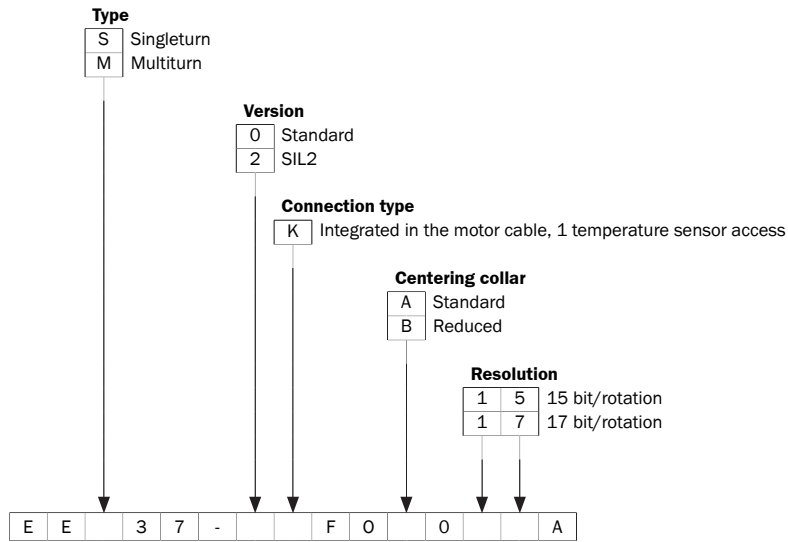
- The compact design allows manufacturers of small and very small motors to reduce the lengths of their motors significantly
- The EES/EEM37 motor feedback systems are extremely well suited to use in harsh environments where resolvers were previously the only option
- The capacitive measurement principle with holistic sensing enables high axial and radial tolerances, simplifying the motor design
- Certification allows for easy integration into a safe drive system

Fields of application

- Packaging industry
- Robotics

Type code

Other models and accessories → www.sick.com/EES_EEM37



Ordering information

Other models and accessories → www.sick.com/EES_EEM37

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Singleturn
- **Type:** for integration
- **Mechanical design:** tapered shaft
- **Connection type:** male connector, 4-pin
- **Operating temperature range:** -40 °C ... +115 °C (For typical values for self-heating, see diagram “Electrical self-heating” in the diagram section. see section “Mounting” in the operating instructions (8021414/8021265).)

Resolution per revolution	Safety system	Type	Part no.
15 bit	✓	EES37-2KFOA015A	1067126
		EES37-2KFOB015A	1086283
	-	EES37-0KFOA015A	1068810
		EES37-0KFOB015A	1086281
17 bit	✓	EES37-2KFOA017A	1067127
		EES37-2KFOB017A	1086284
	-	EES37-0KFOA017A	1068811

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Multiturn
- **Type:** for integration
- **Mechanical design:** tapered shaft
- **Connection type:** male connector, 4-pin
- **Operating temperature range:** -40 °C ... +115 °C (For typical values for self-heating, see diagram “Electrical self-heating” in the diagram section. see section “Mounting” in the operating instructions (8021414/8021265).)

Resolution per revolution	Safety system	Type	Part no.
15 bit	✓	EEM37-2KFOA015A	1067124
		EEM37-2KFOB015A	1086279
	-	EEM37-0KFOA015A	1068808
		EEM37-0KFOB015A	1086277
17 bit	✓	EEM37-2KFOA017A	1067125
		EEM37-2KFOB017A	1086280
	-	EEM37-0KFOA017A	1068809

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