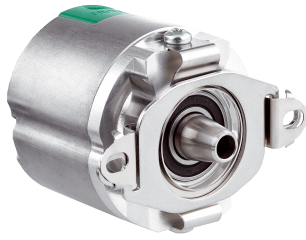


EDS/EDM35

Exceptional performance for servo drives: motor feedback systems with HIPERFACE DSL®

MOTOR FEEDBACK SYSTEMS ROTARY HIPERFACE DSL®

SICK
Sensor Intelligence.



Technical data overview

Type	For integration
Model	Absolute Singleturn / Absolute Multiturn (depending on type)
Communication interface	HIPERFACE DSL®
Resolution per revolution	20 bit / 24 bit (depending on type)
Safety system	- / ✓ (depending on type)
Mechanical interface	Tapered shaft
Connection type	Male connector, 4-pin Female connector, 8-pin Male connector, 8-pin
Available memory area	8,192 Byte
Measurement principle	Acceleration sensor
Measuring range	± 50 g
Bandwidth	10 kHz
Resolution	13 bit

Product description

The digital HIPERFACE DSL® interface has played a significant role in shaping drive technology over recent years. EDS/EDM35 motor feedback systems come with HIPERFACE DSL® and ensure outstanding performance for high-precision servo drives used in safety applications. Fitted with a standardized mechanical interface, they are highly flexible, particularly when used in conjunction with EES/EEM37 motor feedback systems. EDS/EDM35 systems have a newly developed optical scanning system with dual-channel scanning and are highly resistant to shocks and vibrations. Features such as safe singleturn absolute positioning and electronic type labels EDS/EDM35 make them the ideal solution for a wide range of applications, for example in the packaging and machine tool industries.

At a glance

- Optical motor feedback system with HIPERFACE DSL®
- Up to 24-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 revolution data are stored throughout the service life of the device

Your benefits

- A single model with different performance levels allows system suppliers to implement a variety of applications using only one type of encoder
- EDS/EDM35 motor feedback systems are ideal for use in high-precision, dynamic applications
- The 13-bit safe absolute singleturn resolution meets the requirements of tomorrow's safety servo drives

Fields of application

- Packaging industry
- Machine tools

Ordering information

Other models and accessories → www.sick.com/EDS_EDM35

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Singleturn
- **Type:** for integration
- **Mechanical interface:** tapered shaft
- **Connection type:** male connector, 4-pin

Resolution per revolution	Safety system	Type	Part no.
20 bit	✓	EDS35-2KF0A020A	1090710
		EDS35-2KF0A020A-40	1112142
24 bit	-	EDS35-0KF0A020A	1090708
		EDS35-2KF0A024A	1090734
24 bit	-	EDS35-0KF0A024A	1090732

- **Communication interface:** HIPERFACE DSL®
- **Model:** Absolute Multiturn
- **Type:** for integration
- **Mechanical interface:** tapered shaft

Resolution per revolution	Safety system	Connection type	Type	Part no.
20 bit	✓	Male connector, 4-pin	EDM35-2KF0A020A	1090711
			EDM35-2KF0A020A-40	1112143
24 bit	-	Male connector, 4-pin	EDM35-0KF0A020A	1090709
			EDM35-2KF0A024A	1090735
24 bit	✓	Male connector, 8-pin	EDM35-2VF0A024A	1106851
			EDM35-0KF0A024A	1090733
24 bit	-	Male connector, 8-pin	EDM35-0VF0A024A	1106846

- **Communication interface:** HIPERFACE DSL®

Type	Connection type	Measuring range	Type	Part no.
For integration	Female connector, 8-pin	± 50 g	SHUB10-0ZA87010	1107310

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