

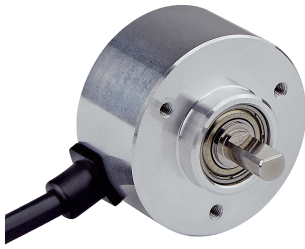


DLS40

Slim and compact incremental encoder that fits many applications

INCREMENTAL ENCODERS

SICK
Sensor Intelligence.



Technical data overview

Pulses per revolution	0 ... 1024
Mechanical design	Solid shaft, face mount flange
Shaft diameter	6 mm
Connection type	Cable, 8-wire, radial Cable, 5-wire, radial
Communication interface	Incremental
Communication Interface detail	TTL / RS-422 HTL / Push pull Open Collector
Supply voltage	4.5 ... 5.5 V 10 ... 27 V
Enclosure rating	IP50
Output frequency	≤ 150 kHz
Operating temperature range	-10 °C ... +70 °C

Product description

The DLS40 incremental encoder is a reliable solution for measuring rotational speed and position. It has several unique features that redefine the way encoders work. The concept of a flange with integrated housing enables a slim, compact, and cost-efficient design. This allows easier installation, especially within tight spaces. In addition, the encoder has an easily accessible laser-marked QR code that provides direct access to the operating instructions.

At a glance

- Slim and compact design that fits almost every application
- Flange with integrated housing and top-cover design
- Pulses per revolution from 50 to 1,024
- Communication interfaces: TTL / RS-422, HTL / Push pull, and Open Collector
- Radial cable connection

Your benefits

- The compact design facilitates the integration of the encoder even where installation space is limited and helps reduce machine size
- The flange with integrated housing enables a very compact and cost-efficient design
- A wide variety of output signal options makes it easy to find the right solution for every application

Fields of application

A large range of applications for the measurement of speed and position, e.g. in

- Printing and packaging
- Paper processing
- Processing, forming and cutting of metal, wood and glass
- Automated guided vehicle systems (AGV systems)
- Manufacture and filling of bottles
- Asynchronous motors
- Cable manufacturing

Ordering information

Other models and accessories → www.sick.com/DLS40

- **Mechanical design:** Solid shaft, face mount flange
- **Shaft diameter:** 6 mm

Communication interface	Supply voltage	Connection type	Pulses per revolution	Type	Part no.
Incremental / HTL / Push pull	10 V ... 27 V	Cable, 5-wire, radial, 2 m	1,000	DLS40E-S3GV01000	1111788
			1,024	DLS40E-S3GV01024	1109606
			100	DLS40E-S3GV00100	1109602
			200	DLS40E-S3GV00200	On request
			360	DLS40E-S3GV00360	1109612
			400	DLS40E-S3GV00400	1109604
			50	DLS40E-S3GV00050	1109600
			500	DLS40E-S3GV00500	1109605
			60	DLS40E-S3GV00060	1109601
			600	DLS40E-S3GV00600	1109611
Incremental / Open Collector	10 V ... 27 V	Cable, 5-wire, radial, 2 m	1,000	DLS40E-S3RV01000	1112896
			1,024	DLS40E-S3RV01024	1109609
			100	DLS40E-S3RV00100	On request
			200	DLS40E-S3RV00200	On request
			360	DLS40E-S3RV00360	1112897
			400	DLS40E-S3RV00400	1109607
			50	DLS40E-S3RV00050	On request
			500	DLS40E-S3RV00500	1109608
			60	DLS40E-S3RV00060	1118938
			600	DLS40E-S3RV00600	1111787
Incremental / TTL / RS-422	4.5 V ... 5.5 V	Cable, 8-wire, radial, 2 m	1,000	DLS40E-S3AV01000	1112894
			1,024	DLS40E-S3AV01024	1109596
			100	DLS40E-S3AV00100	1109565
			200	DLS40E-S3AV00200	1109593
			360	DLS40E-S3AV00360	1109594
			400	DLS40E-S3AV00400	1109597
			50	DLS40E-S3AV00050	On request
			500	DLS40E-S3AV00500	1109595
			60	DLS40E-S3AV00060	On request
			600	DLS40E-S3AV00600	1109610

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