



## DUS60

Flexible encoder with DIP switches for parameter configuration

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Pulses per revolution</b>	1 ... 2,400 <sup>1)</sup>
<b>Mechanical design</b>	Solid shaft, face mount flange Blind hollow shaft Through hollow shaft
<b>Shaft diameter</b>	6 mm, With flat 10 mm, With flat 3/8", With flat 1/4", With flat 6 mm, Front clamp 8 mm, Front clamp 12 mm, Front clamp 5/8", Front clamp 1/4", Front clamp 1/2", Front clamp 3/8", Front clamp 10 mm, Front clamp 15 mm, Front clamp 14 mm, Front clamp 8 mm, rear clamping 12 mm, rear clamping 1/2", rear clamping 5/8", rear clamping 15 mm, rear clamping 3/8", rear clamping 10 mm, rear clamping
<b>Connection type</b>	Male connector, M12, 8-pin, universal Male connector, M12, 4-pin, universal Cable, 8-wire, universal
<b>Communication interface</b>	Incremental
<b>Communication Interface detail</b>	TTL / HTL
<b>Supply voltage</b>	4.75 ... 30 V
<b>Enclosure rating</b>	IP65
<b>Programmable/configurable</b>	✓
<b>Output frequency</b>	+ 60 kHz
<b>Operating temperature range</b>	-30 °C ... +90 °C

<sup>1)</sup> Available pulses per revolution see type code.

### Product description

The DUS60 is a rotary incremental encoder with built-in DIP switch configuration for the resolution, output voltage, and counting direction. The DUS60 configuration switches reduce the number of variants, enable easy replacement and quick commissioning, and increases the likelihood that spare parts will be in stock – all without any additional programming tools. The on-board status and signal LEDs and optional fault output quickly indicate the functionality of the encoder, minimizing time required for both installation and troubleshooting. The DUS60 offers solid shaft and hollow bore mounting with rotating connectors or universal cables for quick and flexible mechanical installation. With resolutions up to 2,400 pulses, the DUS60 is ideal for factory and logistics automation applications.

### At a glance

- Pulses per revolution: Up to 2,400
- Housing diameter: 60 mm
- Solid shaft, blind hollow shaft, through hollow shaft
- Enclosure rating: IP65
- Communication interfaces: TTL/HTL
- Connection types: M12 male connector or cable
- Status LEDs, DIP switch for configuring the settings

### Your benefits

- Quickly commission the encoder using the built-in DIP switches. No additional programming tool or laptop required
- Status and signal LEDs quickly indicate whether the encoder is properly connected, functional, or needs to be replaced
- Universal power supply and a rotatable connector reduce the number of variants required and provide increased installation flexibility
- Anti-dither functionality maintains a high level of productivity also in high vibration applications
- Compatible with existing and low-cost input cards with output types like Clockwise/Counterclockwise and Signal/Direction

### Fields of application

Measuring the position, speed and distance in applications with low speeds and low resolution in the logistics and factory automation markets.

- Conveyor belts
- Packaging machines
- Printing machines
- Storage systems

Type code

Other models and accessories → [www.sick.com/DUS60](http://www.sick.com/DUS60)

Hollow shaft

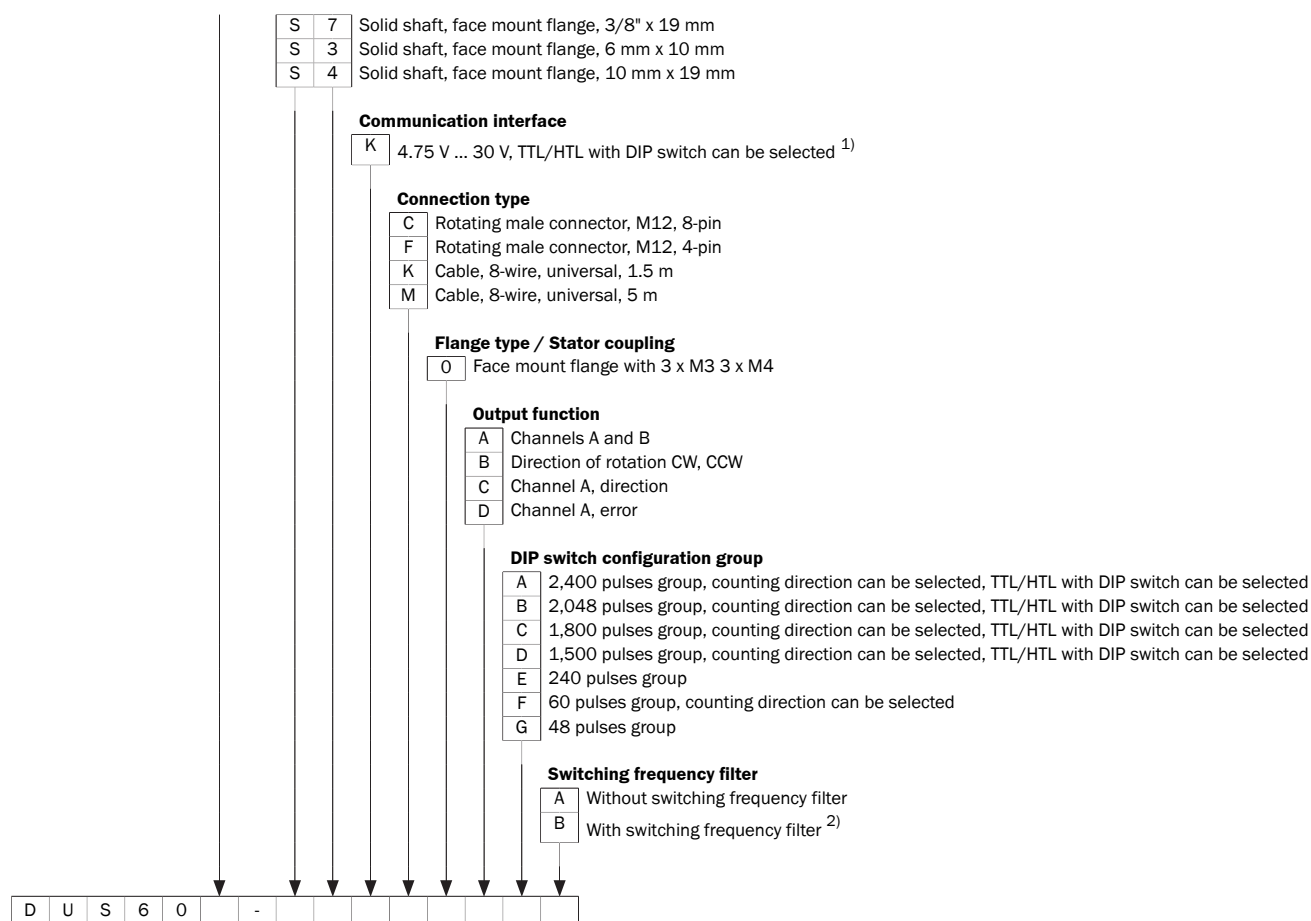


<sup>1)</sup> Output voltage selection not available for DIP switch configurations E, F and G. Output voltage value depends on supply voltage.

<sup>2)</sup> Not available for output function: Channels A and B (A). Connection type must be M12 male connector 4-pin (F).

Solid shaft





<sup>1)</sup> Output voltage selection not available for DIP switch configurations E, F and G. Output voltage value depends on supply voltage.

<sup>2)</sup> Not available for output function: Channels A and B (A). Connection type must be M12 male connector 4-pin (F).

## 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](http://www.sick.com)