



DUS60

Versatile encoder with DIP switches for configurable parameters

SICK
Sensor Intelligence.



Technical data overview

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

¹⁾ 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



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

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

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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.”

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