



ACM60

Absolute encoder with analog interface, directly programmable via teach-in buttons

SICK
Sensor Intelligence.



Technical data overview

Encoder design	Multiturn
Shaft type	Solid shaft, Servo flange
Shaft diameter	6 mm
Connection type	Male connector, M12, 5-pin, radial
Communication interface	Analog
Number of steps per revolution (max. resolution)	
Max. resolution (number of steps per revolution x number of revolutions)	
Analog, Current, non programmable	6 bit (10,485 x 64)
Analog, Voltage, non programmable	6 bit (13,107 x 64)
Operating temperature range	-30 °C ... +80 °C
Enclosure rating	IP65 (IEC 60529) Shaft side IP67 (IEC 60529) Housing side ¹⁾

¹⁾ With mating connector fitted.

Product description

The ACM60 (multiturn) encoder family has an analog interface with a maximum overall resolution of up to 13107 steps. Using the teach-in function on the membrane keyboard, the measuring range can be intuitively programmed directly on the device with just a few clicks. A current signal of 4-20 mA or a voltage signal of 0-10 V is output depending on the device version.

At a glance

- Compact 60 mm absolute encoder with up to 13,107 steps
- Servo flange
- Radial plug connection
- Analog interface 4 to 20 mA or 0 to 10 V
- Programming via keypad on the encoder
- IP68 protection class
- Operating temperature: -30 °C to +80 °C

Your benefits

- Intuitive configuration of the measuring range directly on the device using membrane keyboard (teach-in function) saves time and requires no special expertise.
- The compact size (including M12 connection technology) allows the encoder to be used in confined spaces and thus provides greater freedom for development and machine design.
- The analog interfaces (current/voltage) offer a low-cost solution for detecting the position and path, and thereby help to reduce overall system costs.

Fields of application

Measurement of the absolute position in a variety of industries, machines and equipment, for example:

- Automatically guided vehicle systems (AGS)
- Industrial trucks
- Commercial vehicles
- Packaging machinery
- Logistics applications
- Mechanical engineering
- Medical technology

Ordering information

Other models and accessories → www.sick.com/ACM60

- **Mechanical design:** Solid shaft, Servo flange
- **Singleturn or multiturn version:** Multiturn
- **Communication interface:** Analog
- **Shaft diameter:** 6 mm
- **Connection type:** male connector, M12, 5-pin, radial

Communication Interface detail	Type	Part no.
Current / 4...20 mA	ACM60B-S1KE13x06	6045312
Voltage / 0...10 V	ACM60B-S1LE13x06	6045313

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