



## ACS/ACM36

Compact absolute encoder with analog interface, programmable via teach-in buttons

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Encoder design</b>	Singleturn / Multiturn (depending on type)	
<b>Shaft type</b>	Solid shaft, Servo flange	
<b>Shaft diameter</b>	6 mm	
<b>Connection type</b>	Cable, radial	
<b>Communication interface</b>	Analog	
<b>Number of steps per revolution (max. resolution)</b>	Analog, Current	2,979
	Analog, Voltage	3,723
<b>Max. resolution (number of steps per revolution x number of revolutions)</b>	Analog, Current	4 bit (2,979 x 16)
	Analog, Voltage	4 bit (3,723 x 16)
<b>Operating temperature range</b>	-30 °C ... +80 °C	
<b>Enclosure rating</b>	IP65	

### Product description

The ACS36 (singleturn) and ACM36 (multiturn) encoder families have an analog interface with a maximum resolution of up to 3723 steps (for singleturn and multiturn). Using the teach-in function on the membrane keyboard, the measuring range can be intuitively programmed directly on the device in 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 36 mm absolute encoder with up to 3,723 steps (for singleturn and multiturn)
- Servo flange
- Radial cable connection
- Analog interface 4 to 20 mA or 0 to 10 V
- Programming via keypad on the encoder
- IP65 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 (36-mm format) 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/ACS\\_ACM36](http://www.sick.com/ACS_ACM36)

- **Mechanical design:** Solid shaft, Servo flange
- **Communication interface:** Analog
- **Shaft diameter:** 6 mm
- **Connection type:** cable, radial, 1.5 m

Singleturn or multiturn version	Communication Interface detail	Type	Part no.
Multiturn	Current / 4...20 mA	ACM36-K1K0-K01	6039751
	Voltage / 0...10 V	ACM36-L1K0-K01	6039752
Singleturn	Current / 4...20 mA	ACS36-K1K0-K01	6053311
	Voltage / 0...10 V	ACS36-L1K0-K01	6052345

## 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)