



## ATM90 SSI

Reliable, established and modular

**ABSOLUTE ENCODERS**

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Encoder design</b>	Multiturn
<b>Shaft type</b>	Through hollow shaft
<b>Shaft diameter</b>	12 mm 1/2" 16 mm
<b>Connection type</b>	Male connector, M23, 12-pin, radial Cable, 12-wire, radial
<b>Communication interface</b>	SSI
<b>Number of steps per revolution (max. resolution)</b>	
<b>Max. resolution (number of steps per revolution x number of revolutions)</b>	12 bit x 12 bit (4,096 x 4,096)
<b>Programmable/configurable</b>	Over handheld programming tool

### Product description

The ATM90 with SSI data interface completes the ATM60 product family with through hollow shaft variants. The ATM90 operates reliably even under harsh ambient conditions. Its rugged mechanical design ensures maximum reliability and a long service life. Magnetic singleturn scanning allows a maximum resolution of up to 13 bits within one revolution. Output and detection of the number of revolutions, max. 13 bits, is determined via a mechanical drive with a gearbox that is virtually wear-free. This means that the ATM90 can be operated without a battery. A shallow installation depth of 60 mm combined with high shock and vibration resistance make the ATM90 SSI the perfect match for applications with high mechanical stress and distinct climate fluctuations.

### At a glance

- Extremely rugged, tried-and-tested absolute multiturn encoder with a resolution of up to 26 bits
- Mechanical interface: through hollow shaft with shallow installation depth
- Zero-set and preset functions via hardware or software
- No battery required
- Electrical interface: SSI with gray or binary code type
- Electronically adjustable, configurable resolution
- Magnetic scanning

### Your benefits

- Fewer variants are required since one freely programmable encoder offers all singleturn and multiturn resolutions
- Easy setup due to various electrical connection adapters (cable, M23)
- Application flexibility due to easily interchangeable collets for the blind hollow shaft
- Quick commissioning using the zero set/preset function either at the press of the button on the device or via software
- Increased productivity due to highly reliable shock and vibration resistance
- Worldwide availability and service ensure quick and reliable customer service

### Fields of application

- Measurement of absolute position in various machines and system such as wind power and solar plants, material transport equipment, textile machines, packaging systems, rollers, harbor facilities, printing machines

## Ordering information

Other models and accessories → [www.sick.com/ATM90\\_SSI](http://www.sick.com/ATM90_SSI)

- **Mechanical design:** through hollow shaft
- **Singleturn or multiturn version:** Multiturn
- **Programmable/configurable:** ✓

Mechanical design	Connection type	Type	Part no.
Through hollow shaft 1/2"	Cable, 12-wire, radial, 1.5 m	ATM90-AUK12x12	1030035
	Cable, 12-wire, radial, 3 m	ATM90-AUL12x12	1030036
	Cable, 12-wire, radial, 5 m	ATM90-AUM12x12	1030037
	Male connector, M23, 12-pin, radial	ATM90-AUA12x12	1030034
Through hollow shaft 12 mm	Cable, 12-wire, radial, 1.5 m	ATM90-ATK12x12	1030031
	Cable, 12-wire, radial, 3 m	ATM90-ATL12x12	1030032
	Cable, 12-wire, radial, 5 m	ATM90-ATM12x12	1030033
	Male connector, M23, 12-pin, radial	ATM90-ATA12x12	1030030
Through hollow shaft 16 mm	Cable, 12-wire, radial, 1.5 m	ATM90-AXK12x12	1030039
	Cable, 12-wire, radial, 3 m	ATM90-AXL12x12	1030040
	Cable, 12-wire, radial, 5 m	ATM90-AXM12x12	1030041
	Male connector, M23, 12-pin, radial	ATM90-AXA12x12	1030038

## 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)