

# AKS16 MAGNETIC MODULAR ENCODER FOR ROTARY AND LINEAR APPLICATIONS

The AKS16 magnetic modular encoder from Lika Electronic is capable of exceptional performance and versatility: it can offer both absolute and incremental interfaces in the same miniature package (dimensions are approximately 30 x 15 mm and the weight is less than 2.5 g!), perfectly fit **rotary and linear applications, and be even installed in a parallel or perpendicular orientation to suit the most diverse mounting needs.**

The modular encoder can be installed in a parallel or perpendicular orientation in both scales and rings, and it makes no difference whether the rings are magnetized axially or radially. It can be paired with small rings featuring an outer diameter up to 86 mm and with short scales as long as 256 mm max. .

The contactless operation and the great resistance to contaminants, moisture, vibration, and temperature fluctuations enable its installation in industrial and harsh environments.

The protection rate is IP67, and the operating temperature ranges from -40°C to +100°C (-40°F to +212°F). The AKS16 encoder has an absolute resolution of up to 20 bits for singleturn and up to 28 bits for multiturn in rotary applications.

The linear resolution is down to 156 nm. The absolute position can be provided through the SSI and BiSS C-Mode interfaces.

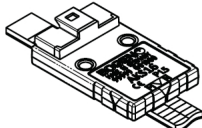
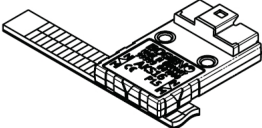
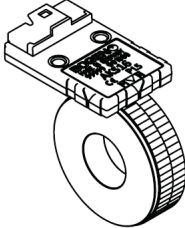
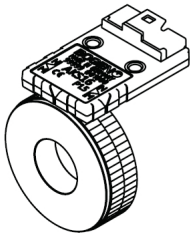
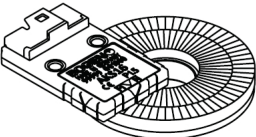
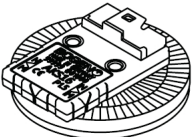
The multi-turn version, available on request, is also capable of measuring the absolute position over multiple turns.

In addition, it can also offer ABO /ABO Line Driver level incremental signals (up to 262,144 steps), UVW /UVW BLDC

motor commutation signals (1 to 16 pole pairs), and STEP/DIR/CW/CCW motor signals.

Both Molex and FFC connector options are available.

The AKS16 modular encoder is best suited for installation in *robots, motors, electromedical and surgical equipment, factory automation, handling systems, and OEM systems.*

|                              | Parallel orientation   | Perpendicular orientation   |
|------------------------------|--|---|
| Linear scale                 |  |  |
| Ring<br>Radial magnetization |  |  |
| Ring<br>Axial magnetization  |  |  |

