

ROTARY AND LINEAR ENCODERS WITH PANASONIC® RS-485 INTERFACE

Rotary kit encoders **AMM36**, **AMM5B**, and **AMM80** as well as linear encoders **SMA2** and **SMA21** from Lika Electronic can be equipped with the **Panasonic® RS-485 interface** in addition to the well-established **SSI** and **BiSS C-mode** interfaces. The main advantages of integrating the Panasonic® interface are full compatibility, simplified connection, and ease of interfacing with PLCs, controllers, drives, and several industrial feedback devices from Panasonic®. Products with integral Panasonic® RS-485 interface are most popular in Asia but widespread all over the world and are typically used in linear motors, cutting machines, product handling equipment, pick & place lines, and storage systems. The serial interface allows a baud rate up to 2.5 Mbit per second and provides control and data fields as well as status fields for diagnostic information.

AMM36, **AMM5B**, and **AMM80** absolute rotary kit encoders are frameless and bearingless and excel in compact size, low profile, minimal weight. Optical technology enables high resolution and fine accuracy for highly accurate and safe control of motion, rotation and positioning. Non-contact operation reduces machine downtime and maintenance.

The **AMM36** has a diameter of 35 mm / 1.378" and a thickness of 18 mm / 0.708" with a 6 mm / 0.236"

AMM36, AMM5B, AMM80



hollow shaft. It is perfect for the smallest robot joints and for rotary end effectors (EOAT). It offers singleturn resolution up to 22 bits and up to 65,536 revolutions.

The **AMM5B** comes in a very compact and flat frameless design (thickness less than 16 mm / 0.63") and is ideally suited for installation in tight spaces. The hollow shaft offers a large internal diameter (24 mm / 0.945" due to the hollow bore). It can be either singleturn or multiturn. The singleturn resolution can be up to 23 bits. In multiturn versions, the number of revolutions is 65,536.

The **AMM80** has a large hollow shaft suitable for diameters up to 45 mm / 1.771". Resolution is up to 23 bit singleturn and 16 bit multiturn, accuracy is better than $\pm 0.03^\circ$.

SMA2, SMA21

The **SMA2** and **SMA21** are absolute linear encoders and designed to be compact, narrow and yet rugged under the harshest industrial environments in linear applications. They provide fine resolution down to 1 μm and high accuracy of $\pm 2 \mu\text{m}$ at fast speed up to 10 m/s. The readhead is IP67 protected with fully overmoulded and resin-coated electronics.

The **SMA2** is the shortest one and offers a max. measuring length of 8.1 m (26.57 ft).

The **SMA21** is only 8 mm longer than the **SMA2**, its measuring length is lengthened up to 32.7 m (107.28 ft).

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