8AXB000.0000-00

1 General information

The 8BAXB000.0000-00 battery module can be used in a 8AC126.60-1 plug-in module. It contains a 3.6 V lithium-thionyl chloride (Li/SOCl2) cell and serves as a backup battery for encoders with battery-backed multi-turn functionality. With these encoders, the multi-turn function is implemented using an electronic counter instead of a mechanical gearbox. The backup battery ensures that the encoder's absolute position data continues to be evaluated in the event of a power failure.

Information:

Lithium-thionyl choloride batteries have a high energy density and low self-discharge. Their cell voltage remains constant for a long time before dropping off rapidly towards the end of their capacity. Once the battery module reports an error, its capacity will only last for a few more days. This should be kept in mind if the machine is scheduled to be disconnected from the mains for several weeks. When in doubt, it is best to exchange the battery module.

2 Order data

Model number	Short description	Figure
	Battery Modules	
8AXB000.0000-00	8AC126.60-1 accessory set for encoder buffering consisting of: Battery module with 3.6 V lithium battery	

Table 1: 8AXB000.0000-00 - Order data

3 Technical data

Product ID	8AXB000.0000-00
General information	
Short description	8AC126.60-1 accessory set for encoder buffering consisting of: 1x Lithium battery 3.6 V, 1x battery holder
Certification	
CE	Yes
cULus	Yes
Mechanical characteristics	
Weight	11 g

Table 2: 8AXB000.0000-00 - Technical data

4 Changing/Inserting the battery module 8AXB000.0000-00

Caution!

The following conditions must be met for the position of the encoder position to be maintained when changing battery module 8AXB000.0000-00:

- **The 8AC126.60-1 plug-in module for which the 8AXB000.0000-00 battery module should be exchanged is installed in an ACOPOS servo drive.**
- **The battery backed encoder is connected to this 8AC126.60-1 plug-in module.**
- **The ACOPOS servo drive is supplied with 24 VDC (at least one of the three LEDs – RUN, READY or ERROR – on the ACOPOS servo drive is lit).**

Information:

The color of the BAT LED on the 8AC126.60-1 plug-in module changes to red and the plug-in module reports an error as soon as the 8AXB000.0000-00 battery module is removed. The encoder position is retained as long as the ACOPOS servo drive continues to be supplied with 24 VDC. The BAT LED remains red until a new 8AXB000.0000-00 battery module is inserted and the error is acknowledged. Then the BAT LED returns to green.

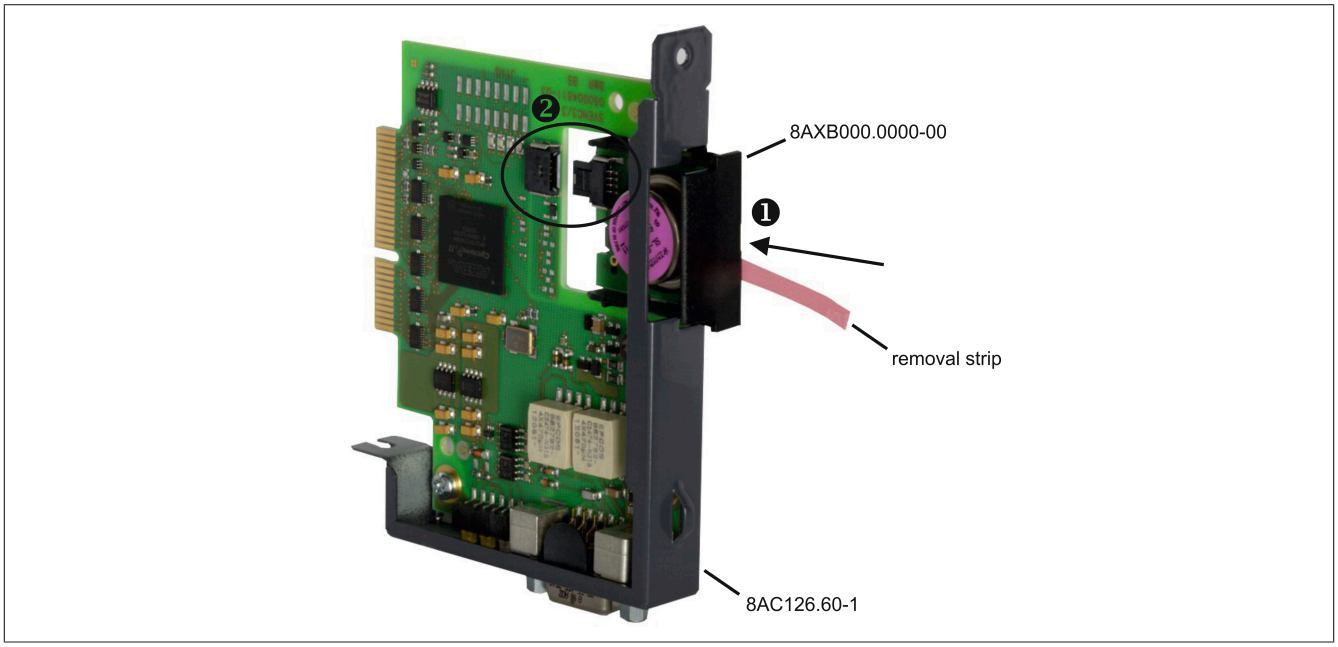

Figure 1: Changing/Inserting the battery module 8AXB000.0000-00

Procedure for changing/inserting

If there already is a 8AXB000.0000-00 battery module in the 8AC126.60-1 insert module:

1. Pull on the removal strip until the battery module is disconnected from the plug-in module.
2. Slide the battery module out of the plug-in module.
3. Insert a new battery module.

Insert a new 8AXB000.0000-00 battery module:

1. Carefully insert a new 8AXB000.0000-00 battery module into the opening of the 8AC126.60-1 ACOPOS plug-in module as shown. Ensure that the removal strip sticks out so that the battery can be removed later.
2. Push the battery module all the way into the opening so that the plug on the battery module connects to the socket on the plug-in module.

Caution!

The battery should be replaced every 6 years. The replacement intervals recommended by B&R reflect the batteries' average service life and operating conditions. It is not the maximum buffer duration.

Warning!

The 8AXB000.0000-00 battery module must be replaced by another 8AXB000.0000-00 battery module. The battery module may explode if handled improperly. Do not recharge, disassemble or dispose of in fire.

Information:

The status of the battery is provided to the application software by a status bit. The application software must ensure an appropriate response to undervoltage. The drive is not stopped automatically.