

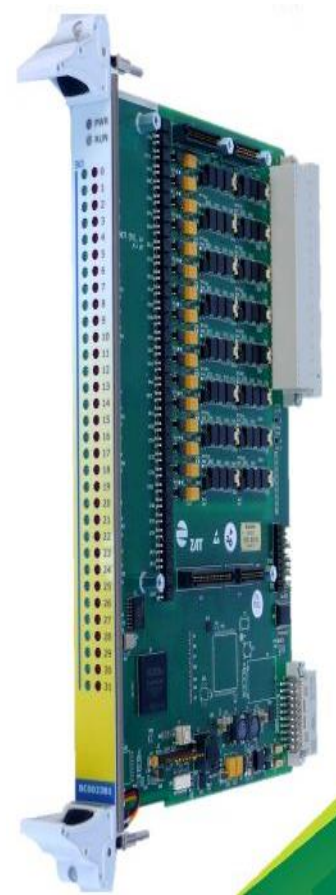
Binary output board with diagnostics BC0023B1



The board BC0023B1 represents an interface for the output binary signals. It is intended for a connection of 32 binary outputs to the Z102 microcomputer board via SSIO3.

Its construction and circuit design allow inserting and removing of the board during system operation (Hot Swap function). There are 16 binary output channels placed on the board itself and the next 16 binary outputs are placed on the submodule MK002S1, which is connected to the BC0023B1 through connectors and it is considered as a part of the board.

- **Connection of 32 binary outputs with diagnostics**
- **Output short circuit resistance (500 mA – current is limited to max. 1.1 A)**
- **Open load detection in ON state**
- **Output circuit over temperature detection**
- **Output voltage presence while inactive output detection (breakdown)**
- **Output circuits undervoltage detection**
- **Output circuit shorted to ground detection**
- **Switch error detection**
- **Contactless switching**
- **Outputs are galvanically insulated from the system**
- **Outputs are merged into groups of four, these groups are galvanically insulated from each other**
- **Communication with the control panel Z102 via the bus SSIO3¹**
- **Signalling of output states and correct function on the board front panel**



BC0023B1

Electrical parameters					
Parameter	Conditions	Min.	Type	Max.	Units
Number of outputs			32		
Output short circuit current			1,1		A
Output current	one contact			500	mA
Output resistance				2	Ω
Dielectric strength output/system		700			V DC
Dielectric strength output/output		700			V DC
Supply voltage		21	24	26	V
Power consumption			150	280	mA

