B&R and ABB safety products
A perfect match

B&R provides industrial automation solutions and is the global center for machine and factory automation within ABB since 2017.

B&R offers PLC:s with integrated safety for processing lines or machines automated with B&R.

The safety products from ABB Jokab Safety are tested, verified and certified to be connected directly to the B&R safety system. This makes ABB able to offer well tried and proven safety solutions together with B&R.

Safe solutions
Reaches the highest level of safety (up to PL e/Cat 4). Certified, verified and reliable safety solutions. Extensive fault detection. Several different types of safety sensors and devices available to suit all safety needs.

Cost effective solution
The advantages of DYNlink
The DYNlink signal significantly reduces the required number of cables and safe input channels which leads to more cost-effective solutions.

Easy to install
Developed with installation in mind
Easy connection with M12 connectors. A wide range of adapters and connectors to simplify wiring. Minimum amount of cabling simplifies installation.
B&R safety controller

In order to supervise ABB safety sensors using B&R controllers the following units are required:

- SafeLOGIC safety controller
- X20 CPU (since the SafeLOGIC is not a stand-alone PLC)
- Safe X20 I/O modules (to connect the safety devices)

Compatible sensor interface protocols

**Dry contacts (potential free/zero volt)**
B&R supports all ABB Jokab Safety products with dry contacts. For this use case, the B&R safe I/O module provides a unique pulse signal which ensures best cable diagnostic.

**OSSD**
B&R supports all ABB Jokab Safety products with OSSD interface. For this use case, the B&R safe I/O module provides a filter to avoid influencing the application by the OSSD low phase.

**DYNlink**
B&R supports all ABB Jokab Safety products with DYNNlink interface. (Available and TÜV-certified in B&R mapp Safety from version 5.12)

Compatible safety products from ABB Jokab Safety

Sensors, switches and locks
Optical safety devices
Control devices
Emergency stops and pilot devices
Pressure sensitive devices
Tina adapters