

ABB SAFETY PRODUCTS

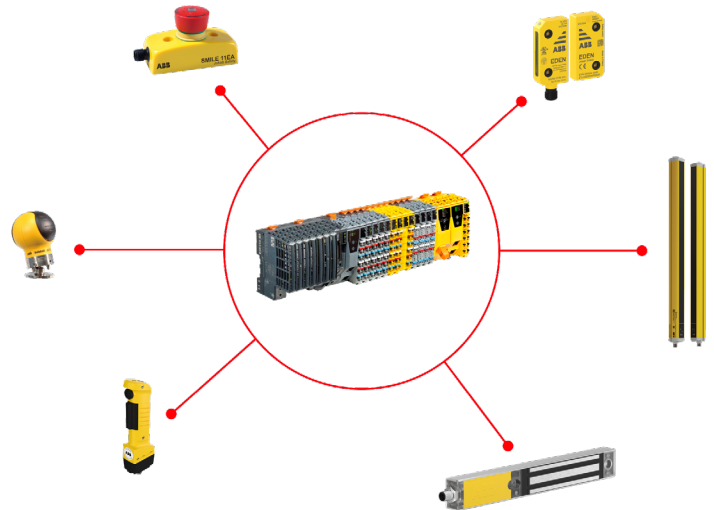
B&R and ABB safety products

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 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.



Safety and protection

Safe solutions

Reaches the highest level of safety (up to PL e/Cat 3).
 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

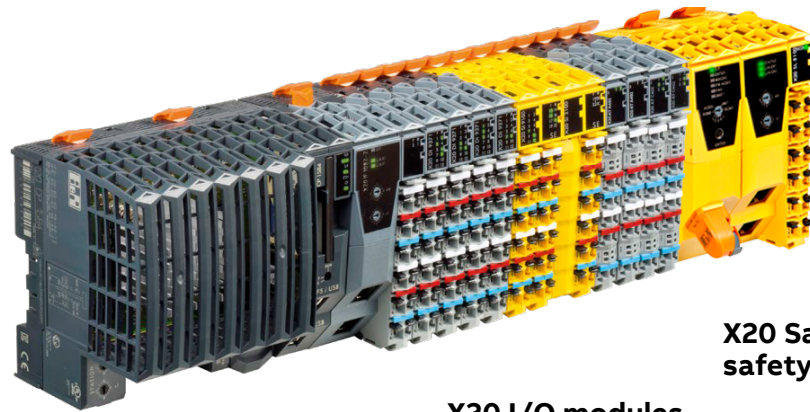
The DYNlink signal significantly reduces the required number of cables and safe input channels which leads to more cost-effective solutions.



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.



**X20 SafeLOGIC
safety controller**

X20 I/O modules

X20 CPU

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 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 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

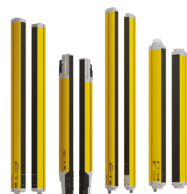
B&R supports all ABB safety products with DYNlink interface. (Available and TÜV-certified in B&R mapp Safety from version 5.12)



Compatible safety products from ABB



**Sensors,
switches and
locks**



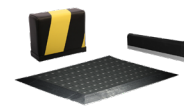
**Optical safety
devices**



Control devices



**Emergency
stops and pilot
devices**



**Pressure
sensitive devices**



Tina adapters

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