

SAFETY PRODUCTS

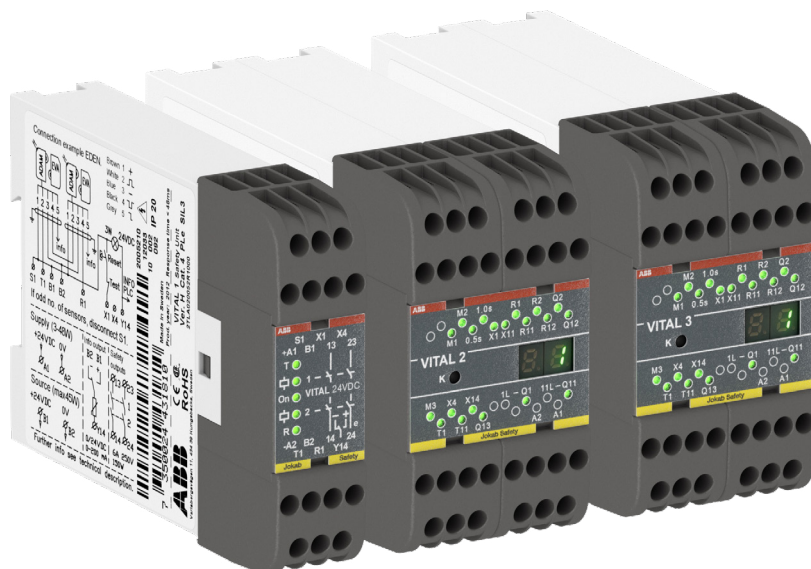
Safety controller

Vital

Vital is a configurable safety controller that does not require programming. It uses the DYNlink system, which allows up to 30 safety devices to be connected in series to the same circuit, while achieving PL e.

This enables a single Vital to supervise all safety functions on many machines that otherwise would have required a programmable safety controller or multiple safety relays.

Vital is also commonly used to supervise all emergency stops for larger machine lines.



Speed up your projects

Easy connection

Reduced installation and engineering time thanks to simple installation with serial connection using M12 connectors.

No programming required

The use of only one safety module without any programming simplifies engineering, commissioning and replacement.

Less components

Significantly less components needed to achieve PL e/SIL 3.



Continuous operation

LED diagnostics

Integrated LED diagnostics reduces down time when troubleshooting.

Detachable connection blocks

Detachable connection blocks simplify replacement.

Exchange without configuration

The configuration is made with jumpers in the detachable connection blocks. In case of exchange, the new unit automatically gets the correct configuration.



Safety and protection

Easy to reach highest safety level

The DYNlink solution makes it possible to maintain the highest level of safety with up to 30 sensors connected in series.

Extensive fault detection

The DYNlink solution enables unique fault detection features and prevents 2-channel faults.



Ordering Details

DYNlink circuits	Static circuit (2 NC)	Maximum DYNlink devices	Safe outputs	Delayable outputs	Type	Order code
1		30	2 NO		Vital 1	2TLA020052R1000
2		10 + 10	2 NO + 2 transistor (-24 V)	Yes	Vital 2	2TLA020070R4300
1	1	10	2 NO + 2 transistor (-24 V)	Yes	Vital 3	2TLA020070R4400

Models

Vital 1 Safety controller

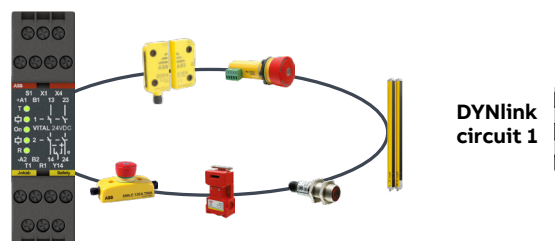
- One DYNlink circuit with up to 30 safety devices
- 2 safe outputs

Vital 2 Safety controller

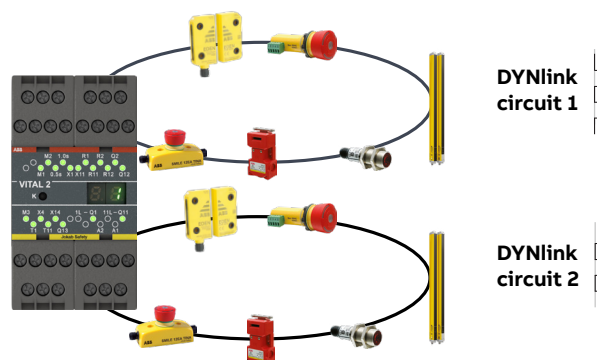
- Two DYNlink circuits with up to 10 safety devices each
- 2 x 2 safe outputs
- A time delay of up to 1.5 s can be set for output group 2
- 3 different modes can be configured:
 1. DYNlink circuit 1 controls output group 1, DYNlink circuit 2 controls output group 2
 2. DYNlink circuit 1 controls both output groups, DYNlink circuit 2 controls output group 23.
 3. Both circuits control both output groups in parallel

Vital 3 Safety controller

- One NC circuit for two-channel NC contact safety devices
- One DYNlink circuit with up to 10 safety devices
- 2 x 2 safe outputs
- A time delay of up to 1.5 s can be set for output group 2
- 3 different modes can be configured:
 1. NC circuit controls output group 1, DYNlink circuit controls output group 2
 2. NC circuit controls both output groups, DYNlink circuit controls output group 2
 3. Both circuits control both output groups in parallel

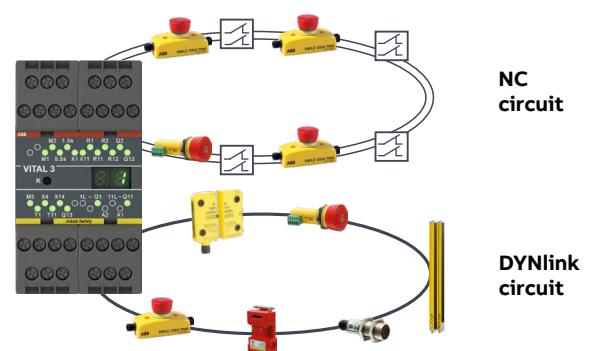


DYNlink circuit 1



DYNlink circuit 1

DYNlink circuit 2



NC circuit

DYNlink circuit