SAFETY PRODUCTS

Non-contact safety sensor
Eden

Eden is a non-contact safety sensor used as an interlocking device for movable guards, such as doors and hatches, and for safe position monitoring. Eden consists of two parts: Adam and Eva. Adam senses the presence of Eva without mechanical contact or wear. Different models are available for various control modules, all making it easy to reach PL e safety.

Continuous operation

Easier troubleshooting
Extensive LED indication and status information reduce downtime.

Suitable in demanding environments
IP67/IP69K ingress protection, temperature range of -40 °C to +70 °C and optional coated electronics offer an increased resistance in demanding environments.

No wear, no mechanical breakage
Non-contact sensing means no mechanical wear. The large sensing tolerance offers better tolerance to vibration, resulting in fewer unwanted process stops.

Affordable range

Local reset function
The integrated reset function reduces the number of cables and PLC inputs.

PL e with fewer components
Series connection with PL e, local reset and DYNlink signal allow to considerably reduce the number of components needed to reach the PL e safety level.

Easy to install

Large mounting tolerance
360° positioning capability with generous tolerances facilitates easy mounting.

Fast connection
M12 connectors, local reset and accessories speed up installation.

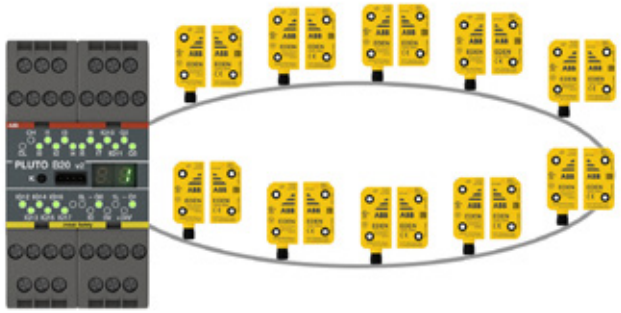
ENGINEERED
TO OUTRUN

Eden

Features

OSSD and DYNlink

Eden is available with two different communication protocols — OSSD and DYNlink. **OSSD** is a standardized 2-channel safety signal commonly used for light guards. It can be used with most safety relays and safety PLCs on the market. **DYNlink** is a unique signal for ABB Safety Products with excellent fault detection capabilities. To use DYNlink, you need a Vital safety controller, Pluto programmable safety controller or B&R X20 safety PLC.



Pluto and a DYNlink circuit with 10 Eden sensors

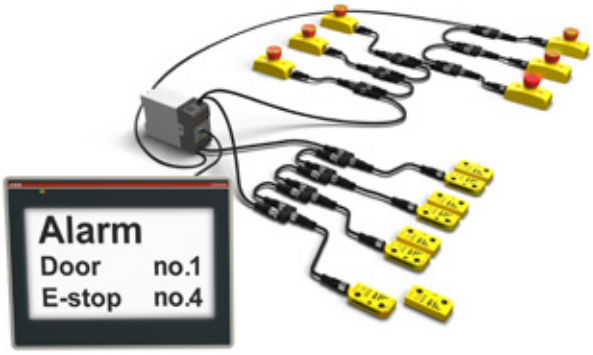
Eden C

Eden models are available with optional coated electronics to increase the protection in demanding environments. Eden C has an increased resistance to rapid temperature changes and can be exposed to humidity up to 95%, regardless of icing or condensation.

Eden C should not be used in direct contact with food, but is recommended for food and beverage areas with wash down and indirect or no food contact.

StatusBus

Simpler models of Eden have an info signal for indicating the status of a sensor. But Eden is also available with StatusBus — a simple and clever way to get individual status information from up to 30 sensors using just one I/O on the safety PLC. No specific bus cable or extra communication module is required.



Local reset

Each Eden sensor can have its own local reset button without the need for separate cables for each button.

- One reset button per Eden with only one control module
- Each button has its own reset indication

2TLC010045V0201

Adam DYN-Info M12-5

ADAM

Type of safety controller	StatusBus	Info signal	Local reset	Series connection	Connector male	Coated electronics	Type	Order code
Pluto	x	x [1]		x	M12-5		Adam DYN-Status M12-5	2TLA020051R5200
Pluto or Vital		x		x	M12-5		Adam DYN-Info M12-5	2TLA020051R5100
						x	Adam C DYN-Info M12-5	2TLA020051R5101
			x	x	M12-5		Adam DYN-Reset M12-5	2TLA020051R5300
OSSD compatible (incl. Pluto and Sentry)		x			M12-5		Adam OSSD-Info M12-5	2TLA020051R5400
						x	Adam C OSSD-Info M12-5	2TLA020051R5401
				x	M12-8		Adam OSSD-Info M12-8	2TLA020051R5700
						x	Adam C OSSD-Info M12-8	2TLA020051R5701
			x		M12-5		Adam OSSD-Reset M12-5	2TLA020051R5600
				x	M12-8		Adam OSSD-Reset M12-8	2TLA020051R5900

[1] Pin 5 can be used as a standard info signal or StatusBus.

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Eva General code

EVA

Compatible Adam	Code description	Code level	Coated electronics	Type	Order code
Adam DYN and OSSD	General code (Eva is interchangeable)	Low level		Eva General code	2TLA020046R0800
			x	Eva C General code	2TLA020046R0801
	Unique code (prevents defeat/fraud)	High level		Eva Unique code	2TLA020046R0900
			x	Eva C Unique code	2TLA020046R0901

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