

# NEW Electronic-Key-System EKS2

Your future-proof operating mode selection



Includes simply everything!

## EUCHNER

More than safety.

# EKS2

## The **latest-generation** Electronic-Key-System

The new generation of products is a logical development of the successful EKS system and has many advantages in terms of digital access control and the selection of a safe operating mode. Templates with predefined functions and data fields have kept to a minimum the programming work needed to integrate the system. Current requirements, including security factors, for example, have been taken into consideration right from the start.



### Evaluation unit



# Experience the new **interactive EKS2**



You can find more detailed information here



EKS2  
Electronic-Key

Read unit

Touch panel integration

Evaluation unit

Managing Electronic-Keys

- TÜV-certified safety device for selection of safe operating modes
- 1-of-n safety outputs for transmitting the selected safe operating mode to the safe control system
- Integrated logic for evaluating your Electronic-Key data instead of time-consuming programming of the control system
- PROFINET connection with integrated RT switch for inclusion in your control environment
- LED indicator for fast initial diagnostics on the evaluation unit
- Integrated web server for advanced diagnostics, status information and firmware updates
- Flexible installation on the panel or in the control cabinet
- Connection to the read unit using a plug-in connecting cable

## Managing Electronic-Keys



## Read unit



- With and without holding clip for the Electronic-Key, depending on the application
- Shallow depth for space-saving installation
- Standard size of 22.5 mm for easy integration into your panel
- Plug-in connecting cable up to 50 m in length for maximum flexibility
- LED indicator for fast initial diagnostics on the read unit

## EKS2 Electronic-Key



- Electronic-Key design for use in harsh industrial environments
- Encryption of your data to protect against manipulation and copying
- Unique Electronic-Key ID to make the assignment of users and authorizations clear
- Predefined data structure for ease of use
- Seven Electronic-Key colors to distinguish between your user groups

- Programming station for writing the Electronic-Keys on the PC
- USB-C port for easy connection to a standard PC
- EUCHNER software with templates for immediate use
- Integrated Electronic-Key database makes management easy
- Templates that can be adapted to your application
- Simple to update so that you always have the latest version

## Future-proof operating mode selection with the EKS2 and a touch panel

Modern touch panels are increasingly being used on machines and manufacturing systems. They are simple and intuitive to use, which makes the everyday work of the operator easier and more efficient. A range of different functions can also be integrated and customized to meet individual requirements.

**Therefore, the next logical step is to select the safe operating mode of a machine only via the touchscreen.**

The EKS2 Electronic-Key provides precisely this functionality. It also offers additional options for making the selection of operation modes more efficient and safer:

### Individual personalization

- ▶ EKS2 Electronic-Keys can be assigned to specific people
- ▶ Electronic keys are retained by the employee, not left on the machine

### Effective Electronic-Key management

- ▶ The Electronic-Keys cannot be easily copied or manipulated
- ▶ You always have an overview of the user group
- ▶ You can block lost Electronic-Keys
- ▶ You can limit Electronic-Key use with an expiration date

### Access management is possible with individual authorizations

- ▶ Give only trained users approval for dangerous operating modes
- ▶ Save completed training courses on the Electronic-Key
- ▶ Limit access to specific machine groups and plants

## The assessment of the performance level (PL) of the selection of a safe operating mode

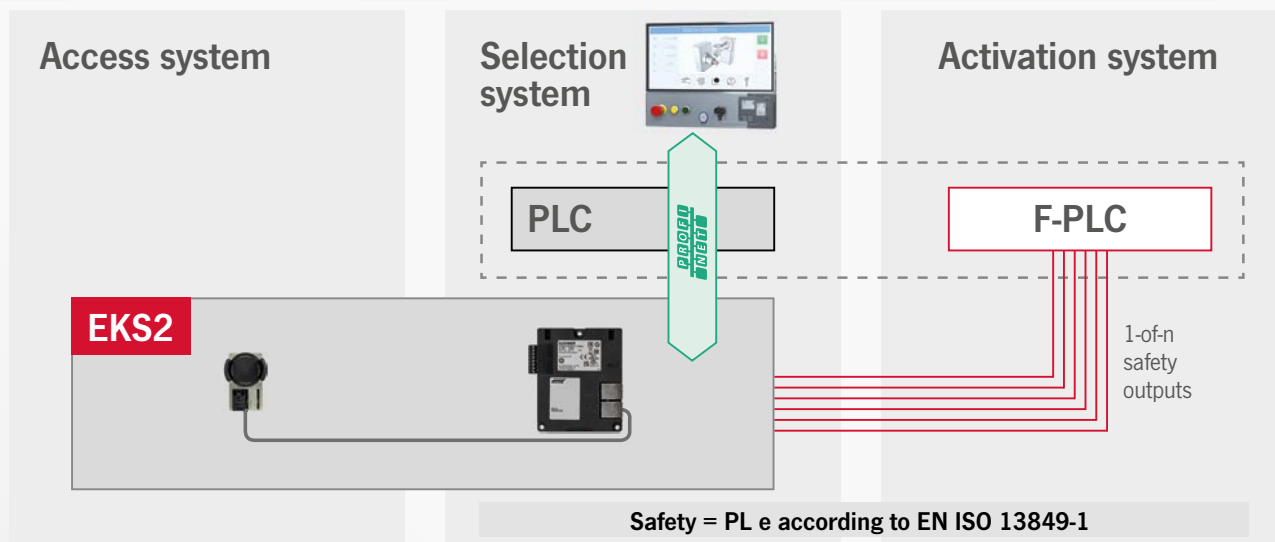
The assessment of the safety engineering of an operating mode selector according to EN ISO 13849-1 has been defined by various standardization committees. The selection of the safe operating mode was divided into three systems:

- ▶ Access system
- ▶ Selection system
- ▶ Activation system

The access system does not have to be implemented according to EN ISO 13849-1. By contrast, the selection system, together with the activation system of the machine, must fulfill the required performance level (PL).

A touch panel alone is not a safe selection system. However, in combination with the EKS2 from EUCHNER, the selection of the safe operating mode via a touch panel is possible on the highest safety level up to PL e.

The selection of the safe operating mode using the touch panel is safely monitored and evaluated by a special communication procedure in the EKS2. After the safe operating mode has been successfully selected, it is transferred to the F-PLC via the 1-of-n safety outputs.



Learn more about the new

# Electronic-Key-System **EKS2**



Easy connection  
and installation



Assign access  
rights simply



Limit access with  
an expiration date



Find more  
information  
here



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