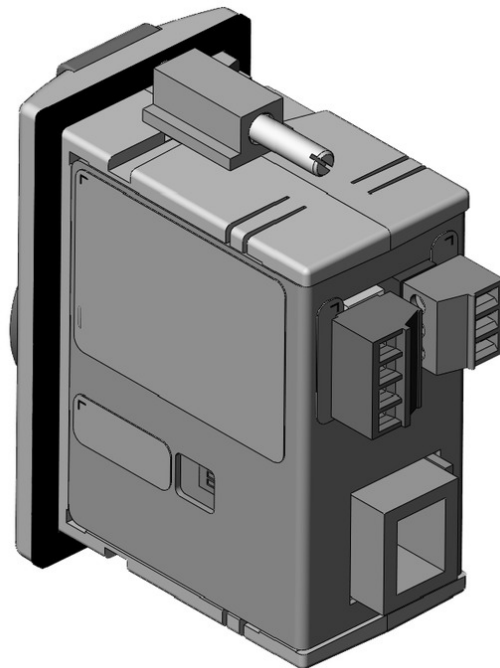


**ITEM 106306 EKS-A-IIXA-G01-ST02/03/04**

Description	Technical data	Accessories	Downloads
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**Features**

- › Electronic-Key adapter with PROFINET IO interface
- › read/write system
- › Remote installation
- › Electronic-Key adapter and electronics in one housing
- › Reliable retention of the Electronic-Key, even if there is heavy vibration
- › Transfers the data from the Electronic-Key to a control system for processing
- › Connection to PLC
- › PROFINET protocol, cyclic data transfer to control system
- › Interfacing via GSDML file
- › Various options for address assignment, also using DIP switches
- › Version FSA (For Safety Applications)

**Approvals**



## Mechanical values and environment

Housing material	PA6-GF30 gray
Ambient temperature	0 ... 55 °C
Degree of protection	IP67 in installed state (only access side)
Mounting cut-out according to DIN 43700	33 x 68 mm
Installation position	On the front
	<b>PROFINET interface</b>
Connection	RJ-45 socket

## Electrical connection ratings

LED indicator		
	Green	Operational
	Yellow	Key in operating distance
	Red	Fault
		<b>PROFINET interface</b>
Connecting cable		
		Min.2x2 twisted pair copper cable shielded, min. Cat. 5
		Star topology wiring
		<b>Power supply</b>
Operating voltage DC		20 ... 24 ... 28 V DC
Current consumption		max.150 mA
		<b>Parameters for the outputs LA and LB</b>
Switching voltage		24 ... 30 V
Switching current		1 ... 10 ... 50 mA
Utilization category according to EN 60947-5-1		
	AC-15	24V 50mA
	AC-12	24V 50mA
	DC-12	24V 50mA
Utilization category according to EN 60947-5-2		
	DC-13	24V 50mA
Connection cross-section		0,14 ... 1,5 mm <sup>2</sup>
Discrepancy time		Difference time between outputs (LB first) 200 ms <sup>[1]</sup>

## Interface, bus

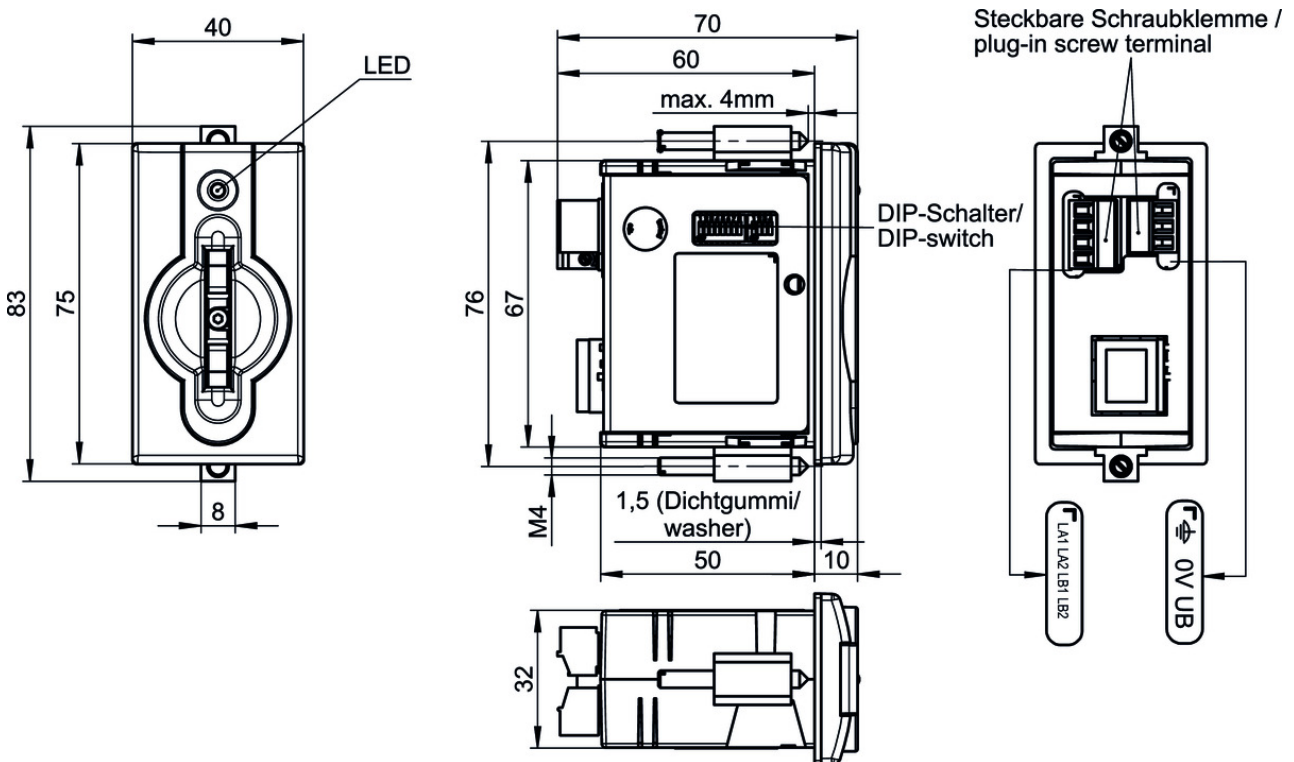
	<b>PROFINET interface</b>
Data protocol	PROFINET
Data rate	10/100 Mbit/s
Data interface	Ethernet (IEEE 802.3)

## Miscellaneous

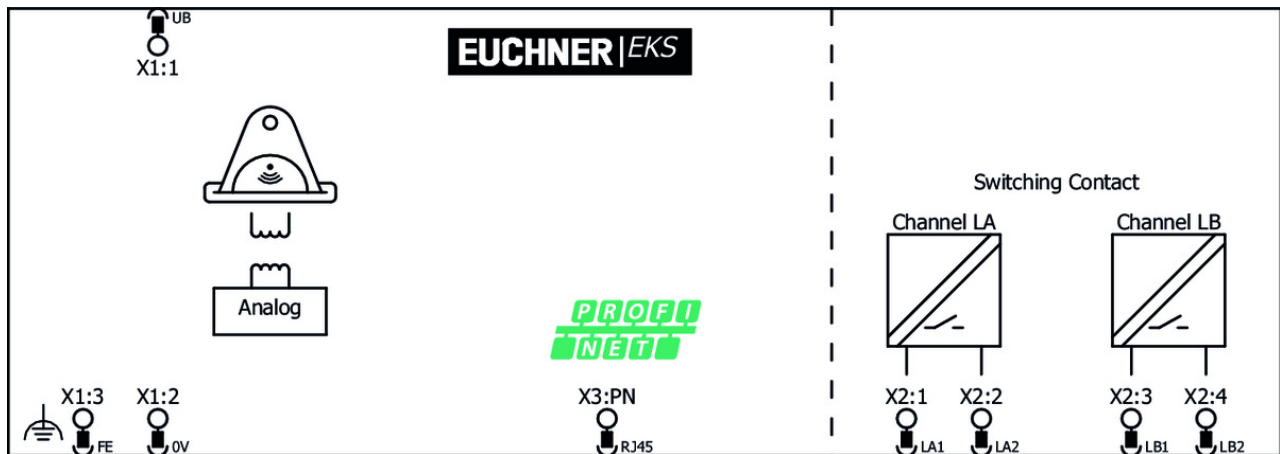
	Parameters for the outputs LA and LB
Additional feature	
	Resistance in switched-on state in Ohm 35
	Capacitive load per output in $\mu\text{Fmax.1}$

[1] If access on the interface takes place during the insertion or removal of the Electronic-Key, the simultaneity time can be more than 200 ms.

## Dimension drawing



## Block diagram



## Electronic-Key

### ✓ Electronic-Key read/write



**077859** EKS-A-K1RDWT32-EU

#### ✓ Features

- › Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)



**084735** EKS-A-K1BKWT32-EU

#### ✓ Features

- › Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)



**091045** EKS-A-K1BUWT32-EU

#### ✓ Features

- › Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)



**094839** EKS-A-K1GNWT32-EU

#### ✓ Features

- › Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)



**094840** EKS-A-K1YEWWT32-EU

#### ✓ Features

- › Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)



**123097** EKS-A-K1WHWT32-EU

#### ✓ Features

- › Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)



## 123098 EKS-A-K10GWT32-EU

### Features

- Memory 116 bytes E<sup>2</sup>PROM (programmable) plus 8 bytes ROM (serial number)

## Instructions

- Manual EKS and EKS FSA with PROFINET IO interface Compact from V3.X.X / Modular from V1.1.X

	Doc. no.	Version	Language	Download
Handbuch EKS und EKS FSA mit PROFINET IO-Schnittstelle Kompakt ab V3.X.X / Modular ab V1.1.X	2516210	01-06/18		2.4 MB
Manual EKS and EKS FSA with PROFINET IO interface Compact from V3.X.X / Modular from V1.1.X	2516210	01-06/18		2.5 MB

## Catalogs

- Electronic-Key-System EKS Electronic-Key-System EKS Electronic-Key-System EKS Electronic-Key-System EKS

	Doc. no.	Version	Language	Download
Electronic-Key-System EKS	086808	14-04/17		3.2 MB
Electronic-Key-System EKS	092953	14-04/17		3.2 MB
Electronic-Key-System EKS	114432	14-04/17		3.2 MB
Electronic-Key-System EKS	086809	14-04/17		3.2 MB

## Application example

- Definition der Schlüsselstruktur auf einem EKS-Schlüssel





























	Doc. no.	Version	Language	Download
Definition der Schlüsselstruktur auf einem EKS-Schlüssel	AP000169-1	02-09/15		0.5 MB
Definition of the Electronic-Key structure on an EKS Key	AP000169-1	02-09/15		0.4 MB

- EKS FSA an Siemens S7-300 – Betriebsartenwahl mit Touchscreen

	Doc. no.	Version	Language	Download
EKS FSA an Siemens S7-300 – Betriebsartenwahl mit Touchscreen	AP000169-7	02-09/15		1.4 MB
EKS FSA on Siemens S7-300 – operating mode selection with touchscreen	AP000169-7	02-09/15		1.5 MB

- EKS an Siemens S7-300 – CRC prüfen

Doc. no.	Version	Language	Download
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EKS an Siemens S7-300 – CRC prüfen	AP000169-5	02-09/15		 0.5 MB
EKS on Siemens S7-300 – checking CRC	AP000169-5	02-09/15		 0.3 MB
<b>▼ EKS mit Datenschnittstelle: Weitergabe von Informationen an Maschinenbauer</b>				
	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
EKS mit Datenschnittstelle: Weitergabe von Informationen an Maschinenbauer	AP000169-6	02-09/15		 0.2 MB
<b>▼ EKS-Profinet an Siemens S7-300 – EKS Schlüssel einlesen</b>				
	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
EKS-Profinet an Siemens S7-300 – EKS Schlüssel einlesen	AP000169-4	02-09/15		 0.7 MB
EKS Profinet on Siemens S7-300 – reading in EKS Electronic-Keys	AP000169-4	02-09/15		 0.4 MB
<b>▼ Einrichten der EKM Software als Programmierplatz</b>				
	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
Einrichten der EKM Software als Programmierplatz	AP000169-2	02-09/15		 1.0 MB
Setting up the EKM software as a programming station	AP000169-2	02-09/15		 0.9 MB
<b>▼ Untersuchungsbericht IFA - Verfahren zur Realisierung der Betriebsartenwahl an Maschinen unter Nutzung des EKS FSA als Zugangssystem</b>				
	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
Untersuchungsbericht IFA - Verfahren zur Realisierung der Betriebsartenwahl an Maschinen unter Nutzung des EKS FSA als Zugangssystem	AP000169-IFA	01-09/15		 1.1 MB
EUCHNER EKS FSA Research Report	AP000169-IFA	01-09/15		 0.3 MB
<b>▼ Übersicht über EKS-Applikationen</b>				
	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
Übersicht über EKS-Applikationen	AP000169	02-09/15		 0.5 MB
Overview of EKS applications	AP000169	02-09/15		 0.3 MB
<b>Declaration of conformity</b>				
<b>▼ EU-Konformitätserklärung</b>				
	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
EU-Konformitätserklärung Declaración UE de conformidad Déclaration UE de conformité Dichiarazione di conformità EU declaration of conformity	2093140	07-01/17	    	 0.3 MB