

## ITEM 122353 EKS-A-AIXA-G18

Description	Technical data	Accessories	Downloads
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### Features

- › Interface adapter with PROFINET IO interface
- › read/write system
- › Usage in conjunction with Electronic-Key adapter FHM
- › A complete read/write station comprises an Electronic-Key adapter FHM and a modular interface adapter
- › 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
- › IMPORTANT: The plug-in connection terminals are not included with the interface adapter and must be ordered separately.
- › Version FSA (For Safety Applications)

### Approvals

## Mechanical values and environment

Housing material	PA6.6 gray
Ambient temperature	0 ... 55 °C
Mounting method	Mounting rail 35mm according to DIN EN 60715 TH35

## Electrical connection ratings

Operating voltage DC	20 ... 24 ... 28 V DC
Current consumption	
Without load	max.150 mA
Connection cross-section	
Operating voltage, screw terminal 2x2-pin	0,2 ... 2,5 mm <sup>2</sup>
Electronic-Key adapter, screw terminal 5-pin	0,2 ... 1,5 mm <sup>2</sup>
Semiconductor switching contact FSA, screw terminal 5-pin	0,2 ... 1,5 mm <sup>2</sup>
	<b>Semiconductor switching contact LA</b>
Max. capacitive load	max.1 µF
Power supply	max.30 V 24 V
Switching current	1 ... 10 ... 50 mA
Output voltage	Ux0,9 ... U V DC
Utilization category according to EN 60947-5-1	
AC-15	24 V/50 mA
AC-12	24 V/50 mA
Utilization category according to EN 60947-5-2	
DC-12	24 V/50 mA
DC-13	24 V/50 mA
Resistance	
in the switched state	0,035 kΩ
	<b>PROFINET LED indicator</b>
LED indicator	
Profinet	active / green
Profinet	system error / red
Profinet	bus error / red
	<b>Read head LED indicator</b>
LED indicator	
Read head	readiness for operation / green
Read head	Electronic-Key in the operating distance / yellow
Read head	fault / red
	<b>PROFINET interface</b>

Connecting cable

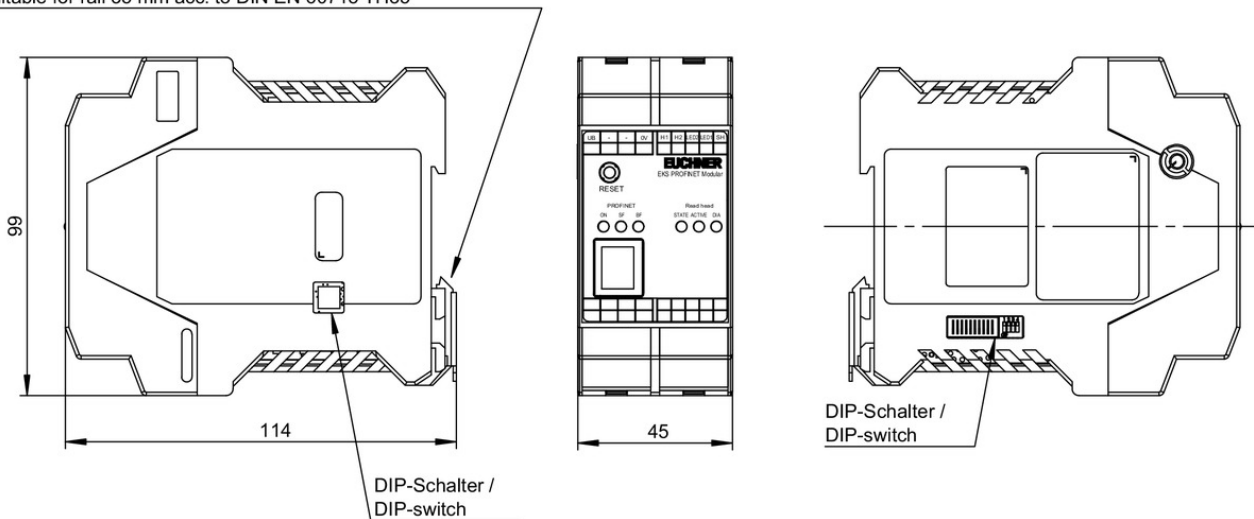
min. 2x2 twisted pair copper cable shielded, min. cat. 5

## Interface, bus

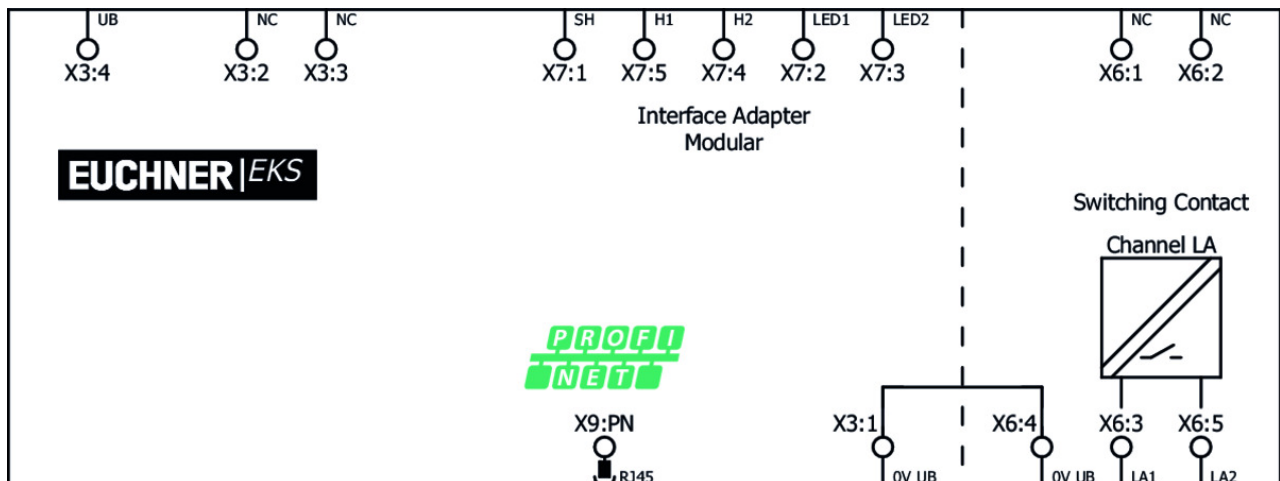
	<b>PROFINET interface</b>
Data protocol	PROFINET
Data interface	Ethernet (IEEE 802.3)

## Dimension drawing

passend für Hutschiene 35 mm nach DIN EN 60715 TH35 /  
suitable for rail 35 mm acc. to DIN EN 60715 TH35



## Block diagram



## Electronic-Key

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### ✓ 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-K1YEWT32-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-K1OGWT32-EU

#### ✓ Features

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

## Electronic-Key-System

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### ✓ Electronic-Key adapter EKS Front hook modular FHM, with flying lead



**106585** EKS-A-SFH-G30-2000

#### ✓ Features

- › Small design for installations where there is little space
- › Installation in standard assembly hole Ø 22.5 mm

- › Closed design, rounded contours for hygienic areas
- › Plastic with high resistance to media
- › IP 69K
- › Cable 2 m with flying lead

▼ Electronic-Key adapter EKS Front hook modular FHM, with M8 male plug



**116118** EKS-A-SFH-G30-ST150

▼ Features

- › Small design for installations where there is little space
- › Installation in standard assembly hole Ø 22.5 mm
- › Closed design, rounded contours for hygienic areas
- › Plastic with high resistance to media
- › IP 69K
- › Cable 0.13 m with M8 male plug

## Connection material

▼ Connection kit for interface adapter EKS PROFINET FSA, screw terminals

**125528** AC-SC-04/05-V3-125528

▼ Features

- › Plug-in screw terminals for EKS interface adapter with PROFINET interface
- › 1 4-pin female plug, coded
- › 2 5-pin female plugs

▼ Connection kit for interface adapter EKS PROFINET FSA, spring terminals

**125529** AC-CC-04/05-V3-125529

▼ Features

- › Plug-in spring terminals for EKS interface adapter with PROFINET interface
- › 1 4-pin female plug, coded
- › 2 5-pin female plugs









## Instructions

▼ Handbuch EKS und EKS FSA mit PROFINET-Schnittstelle Kompakt bis V2.10.X / Modular bis V1.0.X

	Doc. no.	Version	Language	Download
Handbuch EKS und EKS FSA mit PROFINET-Schnittstelle Kompakt bis V2.10.X / Modular bis V1.0.X	2109283	04-05/18		2.2 MB
Manual EKS and EKS FSA with PROFINET Interface Compact up to V2.10.X / Modular up to V1.0.X	2109283	04-05/18		2.1 MB





## Catalogs

### ▼ Electronic-Key-System EKS Electronic-Key-System EKS Electronic-Key-System EKS Electronic-Key-System EKS





	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
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

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
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

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
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

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
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





### ▼ EKS mit Datenschnittstelle: Weitergabe von Informationen an Maschinenbauer

	<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

### ▼ EKS-Profinet an Siemens S7-300 – EKS Schlüssel einlesen



	<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

### ▼ Einrichten der EKM Software als Programmierplatz





	<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

### ▼ Untersuchungsbericht IFA - Verfahren zur Realisierung der Betriebsartenwahl an Maschinen

unter Nutzung des EKS FSA als Zugangssystem






	<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

 Übersicht über EKS-Applikationen

	<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

## Declaration of conformity

 EU-Konformitätserklärung

	<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