# CIA3SX1R1G08 (Order no. 077910)

## Read/write interface adapter CIA3SX1R1G08

▸ Serial interface RS232/RS422

▸ In combination with read head CIT3ASX1N12ST
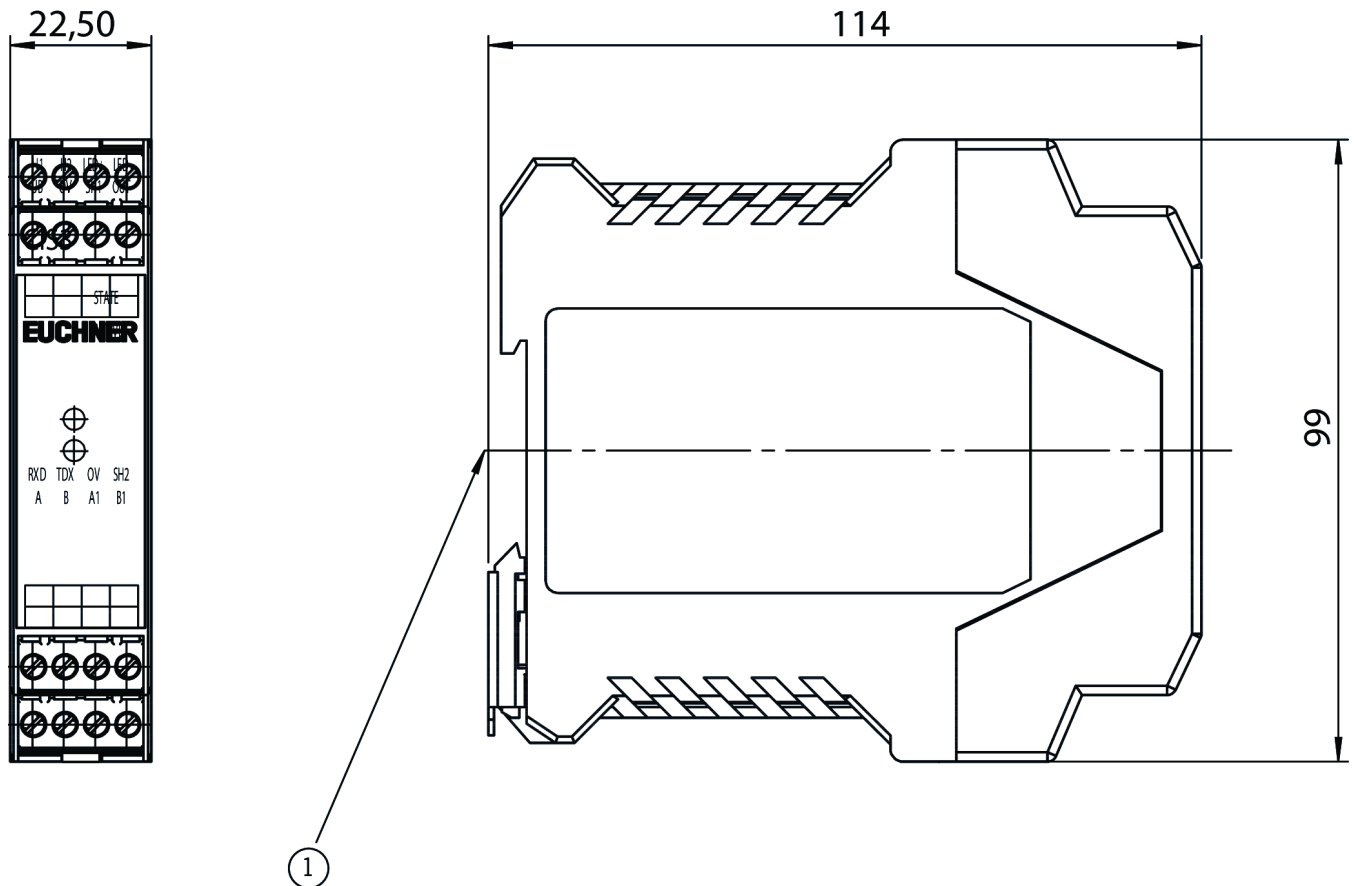
▸ Rail mounting

## Serial interface

The individual commands for reading and writing the data carrier are in accordance with the common 3964R protocol and are described in the EUCHNER CIS3 system manual (order no. 084 727). For data carrier programming away from the system, a convenient WINDOWS®–compatible PC software application is available (Transponder Coding software)

## Attention:

▸ On the use of a screened cable, the connecting cable for the serial interface is allowed to be max. 5 m long for RS232 and max. 1,000 m long for RS422.

▸ On the use of a screened cable the connecting cable to the write/read head is allowed to be max. 15 m long.

▸ It is only ever possible to connect 1 read head per interface adapter.

# Dimensional drawings

22,50

114

66

① 1 Suitable for 35 mm mounting rail according to DIN 46277

# Connection examples

| Bezeichnung | Beschreibung | |
|---|---|---|
| 0V/GND | Masse, DC 0 V | |
| 24 V/$U_B$ | Spannungsversorgung, DC 24 V | |
| TxD | Serielle Schnittstelle Senden | RS232 |
| RxD | Serielle Schnittstelle Empfangen | |
| A/TxD+ | Serielle Schnittstelle Senden + | |
| B/TxD- | Serielle Schnittstelle Senden - | RS422 |
| A1/RxD+ | Serielle Schnittstelle Empfangen + | |
| B1/RxD- | Serielle Schnittstelle Empfangen - | |
| OUT | Ausgang Datenträger aktiv, 24 V | |
| SH2 | Schirm Datenleitung | |

**Connection examples**

| Bezeichnung | Beschreibung | Aderfarbe |
|:---:|:---:|:---:|
| H1 | Antenne vom Lesekopf | BN |
| H2 | Antenne vom Lesekopf | WH |
| LED + | LED vom Lesekopf | YE |
| LED - | LED vom Lesekopf | GN |
| SH1 | Schirm vom Lesekopf | BK |

# Technical data

## Operating and display elements

LED display

| | | |
|---|---|---|
| | Green | STATE LED operational |
| | Yellow | ACTIVE LED data carrier active |

## Electrical connection values

| | |
|---|---|
| Connection cross section | 0.14 … 2.5 mm² |
| Output current | 10 mA |
| Operating voltage DC | 20 … 24 … 28 V DC<br>(All electrical connections must be isolated from the mains either by safety transformers according to IEC/EN 61558–2–6 with limitation of the output voltage in the event of a fault or by equivalent isolation measures.) |

Current consumption

| | | |
|---|---|---|
| | without load | 65 … 100 mA |

## Mechanical values and environment

| | |
|---|---|
| Connection type | plug–in screw terminals |
| Number of read heads | max. 1 |
| Cable length | max. 5 m with RS232, max. 1,000 m with RS422 |
| Mounting type | Mounting rail 35 mm according to DIN EN 60715 TH35 |
| Degree of protection | IP20 |
| Ambient temperature | 0 … +55 °C |
| Material | |

| | | |
|---|---|---|
| | Housing | PA 6.6 |

## Miscellaneous

| | |
|---|---|
| Additional feature | |

| | |
|---|---|
| | Moisture test (not condensing) at +50 °C and 80% rel. h |
| | Shock – IEC60068–2–27 acceleration 30 g, 6 shocks per axis, 11 ms/half–sine |
| | Vibration – IEC60068–2–6, amplitude 1 mm, 10–55 Hz, 3 axes |

## Interface

| Data protocol | 3964R via RS232/RS422 |
|---|---|
| Data rate | 9600 … 28800 kbit/s selectable via DIP switches |

## In combination with CIT3ASX1N12ST read/write head and CIS3AP10D05KH01K, CIS3AP10D05KH01K–P data carriers

| Read distance | | |
|---|---|---|
| | with center offset m=0 | |
| **Read distance** | | |
| | with center offset m=0 | 0 … 3 … 6.5 mm <br> (These values apply to non–flush installation of the read/write head and flush installation of the data carriers in a non–metallic environment.) |
| | with center offset m=0 | 0 … 3 … 6 mm <br> (These values apply to non–flush installation of the read/write head and flush installation of the data carriers in irons.) |
| | with center offset m=0 | 0 … 3 … 5 mm <br> (These values apply to non–flush installation of the read/write head and flush installation of the data carriers in aluminum.) |
| **Center offset** | | |
| | Write distance s = 3 mm | −2 … 2 mm <br> (These values apply to non–flush installation of the read/write head and the data carrier in a non–metallic environment.) |
| | Read distance s = 3 mm | −2.5 … 2.5 mm <br> (These values apply to non–flush installation of the read/write head and the data carrier in a non–metallic environment.) |
| **Write distance** | | |
| | with center offset m=0 | 0 … 3 … 6 mm <br> (These values apply to non–flush installation of the read/write head and flush installation of the data carriers in non–metallic environments. For flush installation of the data carriers in iron, the value is max. 5.5 mm and in aluminum max. 4.5 mm.) |

## Downloads

All documentation for this material can be found on our website:

https://www.euchner.de/en-us/a/077910/?#downloads-tab

## Ordering data

| | |
|---|---|
| Ordernumber | 077910 |
| Item designation | CIA3SX1R1G08 |
| Gross weight | 0,205kg |
| Customs tariff number | 85364110 |
| ECLASS | 27–28–04–01 Identification, RFID Reader |

# Accessories

## Connection accessories

### Connecting cable with plug connector M8, 4–pin, 10 m

**084643**
C–M08F04–04X025PV10,0–ES–084643

- ▸ M8 female plug, 4–pin
- ▸ Straight plug connector
- ▸ PVC cable
- ▸ Cable length 10 m
- ▸ With flying lead
- ▸ Knurled nut electrically connected to cable shield

### Connecting cable with plug connector M8, 4–pin, 15 m

**084644**
C–M08F04–04X025PV15,0–ES–084644

- ▸ M8 female plug, 4–pin
- ▸ Straight plug connector
- ▸ PVC cable
- ▸ Cable length 15 m
- ▸ With flying lead
- ▸ Knurled nut electrically connected to cable shield

### Connecting cable with plug connector M8, 4–pin, 2 m

**084641**
C–M08F04–04X025PV02,0–ES–084641

- ▸ M8 female plug, 4–pin
- ▸ Straight plug connector
- ▸ PVC cable
- ▸ Cable length 2 m
- ▸ With flying lead
- ▸ Knurled nut electrically connected to cable shield

### Connecting cable with plug connector M8, 4–pin, 5 m

**084642**
C–M08F04–04X025PV05,0–ES–084642

- ▸ M8 female plug, 4–pin
- ▸ Straight plug connector
- ▸ PVC cable
- ▸ Cable length 5 m
- ▸ With flying lead
- ▸ Knurled nut electrically connected to cable shield

## Data carrier

### Data carrier CIS3A–Mini

**077785**
CIS3AP10D05KH01K

- ▸ Cylindrical design, Ø 10 mm
- ▸ Unprogrammed

**092320**
CIS3AP10D05KH01K–P

- ▸ Cylindrical design, Ø 10 mm
- ▸ Programmed

## Read heads

### Read–write head CIT3A Mini

**077940**

CIT3ASX1N12ST

▸ Use with interface adapter CIA3…
▸ Cylindrical design M12
▸ M8 plug connector
▸ Axial connection

## Software

### .NET 3964R Library

**8000140**

SW .NET 3964R LIBRARY

▸ Protocol driver software for connecting the EKS Electronic–Key adapters with serial or USB interface and the CIS ident systems with serial interface to a PC application (in titles !!!)

### Transponder Coding 2 TC2

**8000151**

SW TRANSPONDER CODING 2 TC2

▸ Software for reading and writing CIS data carriers and EKS keys

### Transponder Coding TC

**8067190**

SW TRANSPONDER CODING TC

▸ Software for reading and writing CIS data carriers or EKS Electronic–Keys