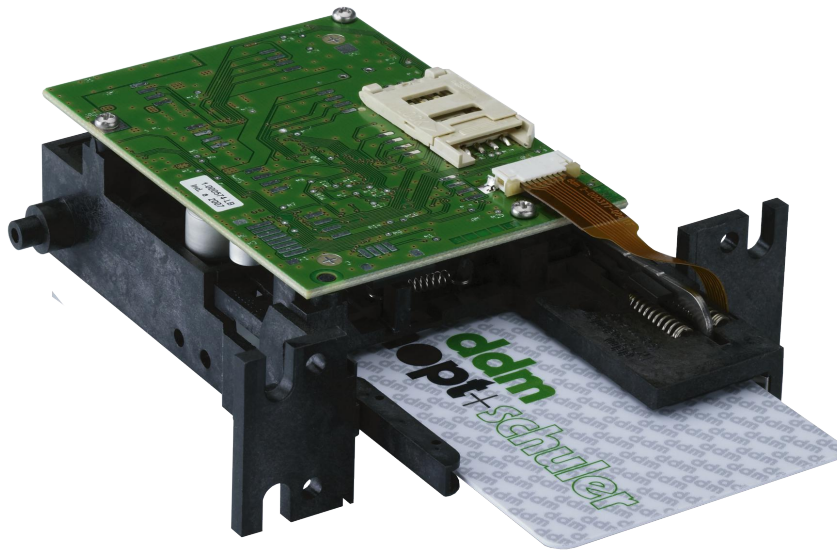


862 READER

ddm hopt+schuler GmbH & Co. KG

 Königsberger Straße 12
 78628 Rottweil | Germany

www.hopt-schuler.com


862-C

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AUSFÜHRUNG

- + liest Magnet-, Chip- und RFID-Karten
- + integrierter Chipkarten-Kontaktiereinheit
- + integrierter Magnetkarten-Leser
- + integrierter RFID-Leser
(optional externe Antenne)
- + verschiedene Befestigungspositionen
- + verschiedene Karteneinführungen
- + optional mit Karten-Verriegelung

ABMESSUNGEN

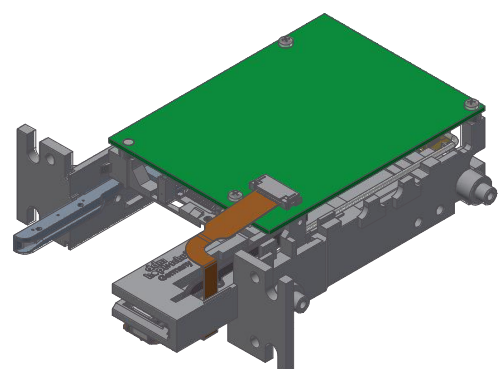
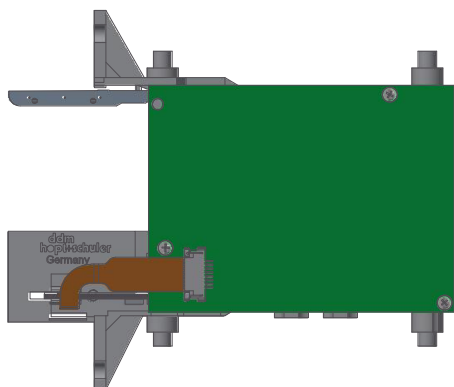
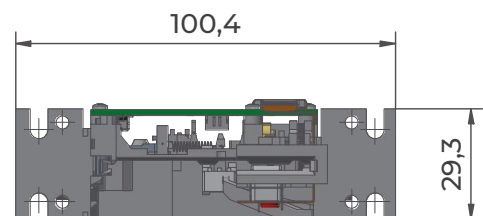
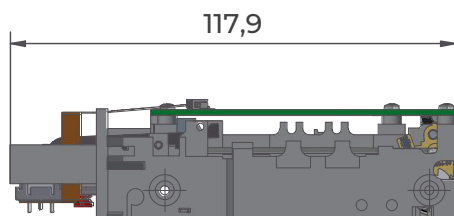
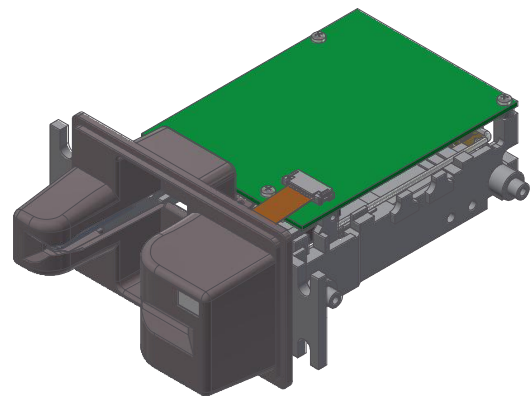
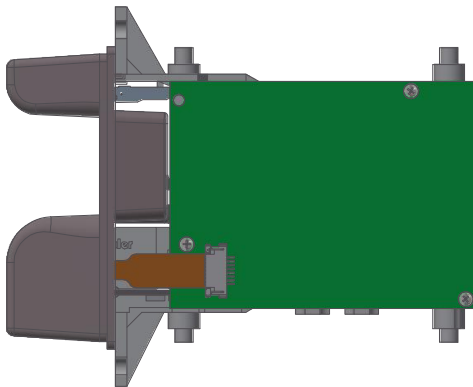
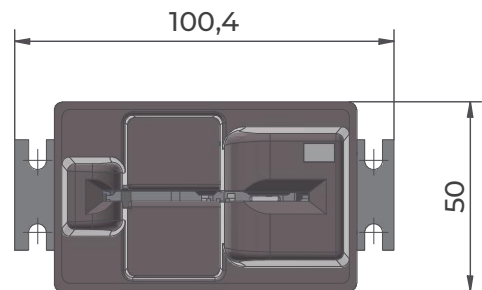
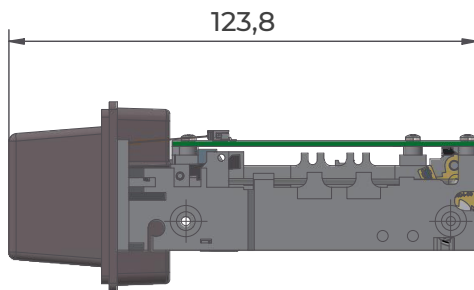
100,4 x 29,3 x 117,9 mm

CONSTRUCTION

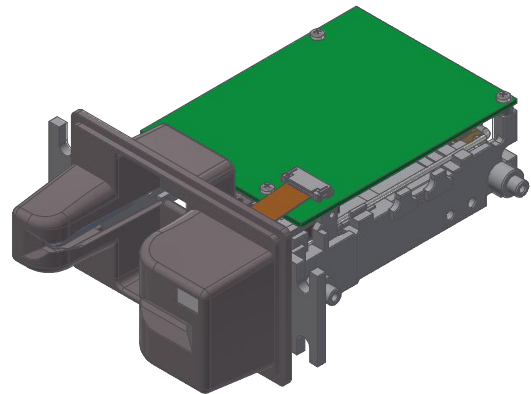
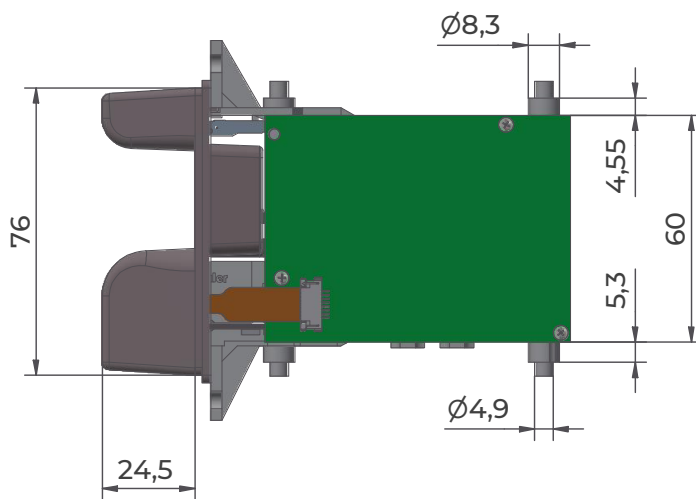
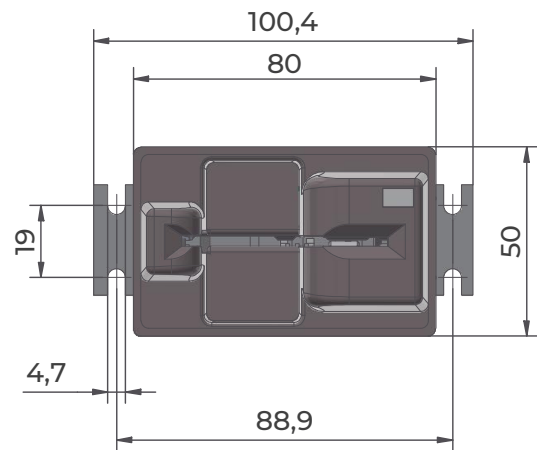
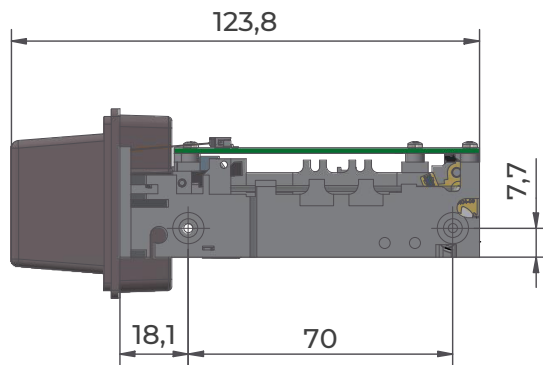
- + Reads magnet-, chip- and RFID-cards
- + Integrated chip card reader
- + Integrated mag.-stripe card reader
- + Integrated RFID reader
(optional external antenna)
- + Various mounting positions
- + Different bezels
- + Optional with card locking

DIMENSIONS

100,4 x 29,3 x 117,9 mm



Unit: mm
General tolerance ± 0.5



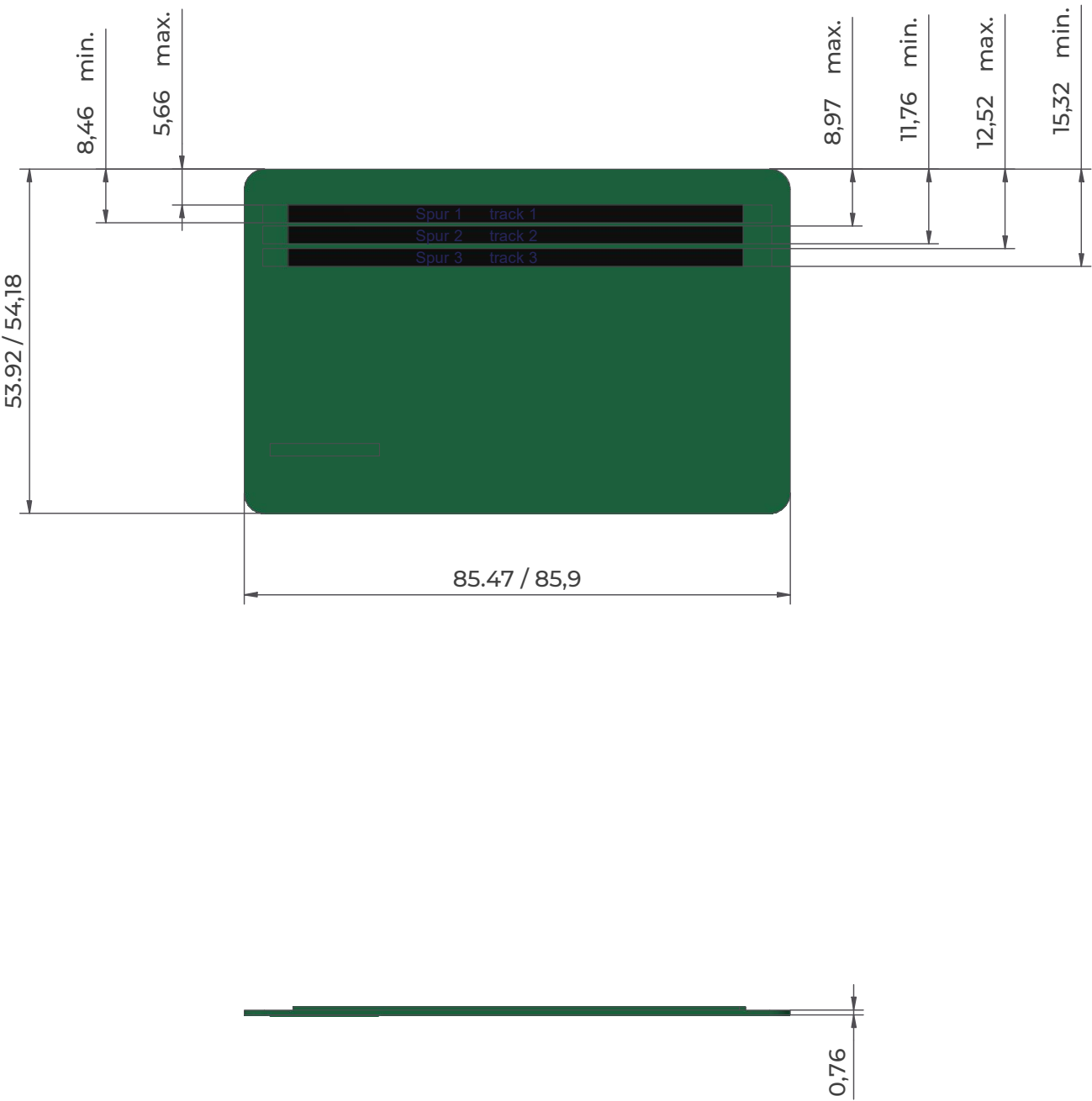
Unit: mm

General tolerance ± 0.5



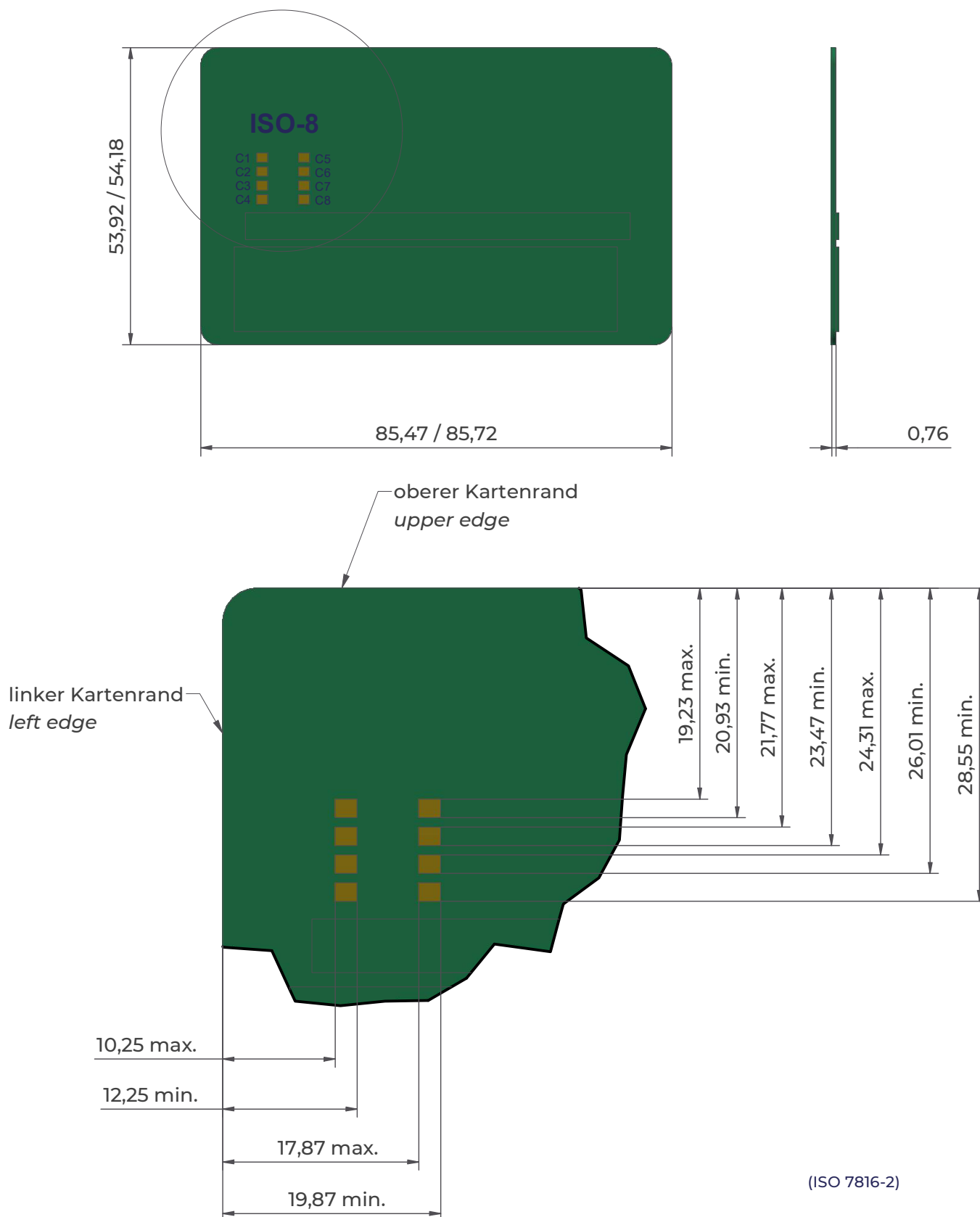
MAGNETKARTE | MAGNETIC CARD

862-C



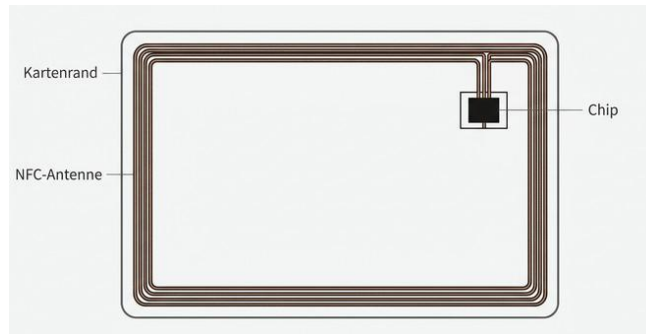
CHIPTKARTE | CHIP CARD

862-C



ANTENNE | ANTENNA

RFID-Karten nach ISO Standard ISO/IEC 14443-1
RFID cards according to ISO standard ISO/IEC 14443-1



Antenne mindestens 2,5 mm vom Rand entfernt.

Achtung!!!

Abweichend hiervon empfehlen wir dringendst einen Randabstand von mind. 4,5 mm!

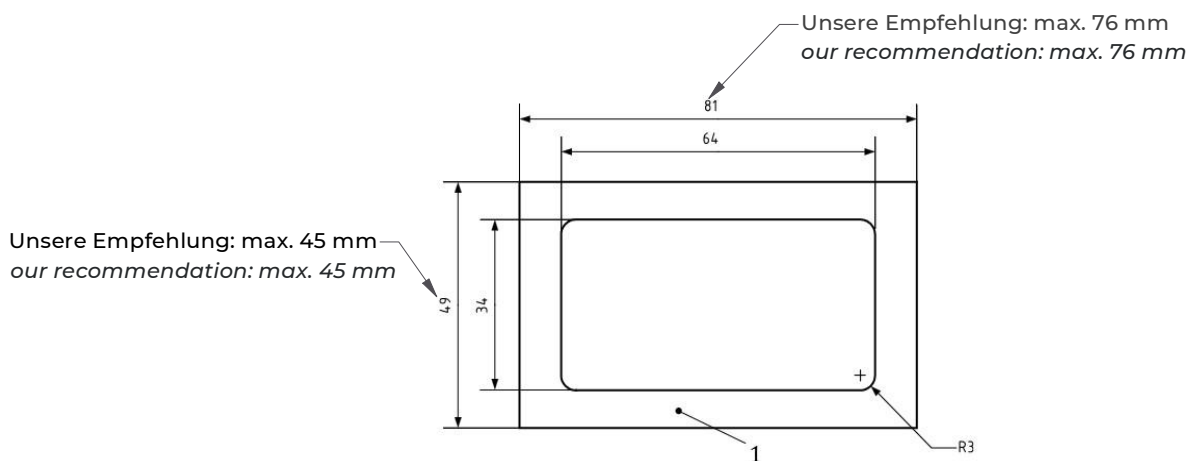
Antenna at least 2,5 mm from the edge

Attention!!!

Notwithstanding the above, we strongly recommend a minimum edge clearance of 4,5 mm!

Bereich in dem Antenne liegen soll:

Area where the antenna should be located:



Auszug aus der ISO 14443-1:

Excerpt from ISO 14443-1:

A.1 "Klasse 1"

Die Verwendung von PICCs der Klasse 1 ist für PCDs obligatorisch.

Die Antenne eines PICCs der Klasse 1 muss sich innerhalb eines Bereichs befinden, der durch zwei Rechtecke definiert ist, wie in Abbildung A.1 dargestellt:

1. Äußeres Rechteck: 81 mm x 49 mm (wir empfehlen max. 76 mm x 45 mm);
 2. Inneres Rechteck: 64 mm x 34 mm, zentriert im äußeren Rechteck, mit Eckradien von 3 mm.
- Die Antenne eines PICC der Klasse 1 muss das innere Rechteck des Antennenbereichs des PICC umschließen.

A.1 "Class 1"

The support of "Class 1" PICCs is mandatory for PCDs.

The antenna of a "Class 1" PICC shall be located within a zone defined by two rectangles, as shown in Figure A.1:

1. external rectangle: 81 mm x 49 mm (we recommend max. 76 mm x 45);
 2. internal rectangle: 64 mm x 34 mm, centered in the external rectangle, with 3 mm corner radii.
- The antenna of a "Class 1" PICC shall encircle the internal rectangle of the PICC antenna zone.*

MECHANISCHE DATEN | MECHANICAL DATA

CHIPKONTAKT CHIPCONTACT	Kontaktierung	according to ISO 7816	Contact Location
	Anzahl der Kontakte	8	Number of Contacts
	Kontaktierungsart	landing	Contact System
	Kontaktform	ball radius > 0.8 mm anti-vandalism-contacts	Contact Style
	Kontaktkraft	0.3 N to max. 0.5 N	Contact Force
MAGNETKOPF MAGNETIC HEAD	Anzahl der Spuren	max. 3	Numbers of tracks
	Bitdichten	track 1 - 210 Bpi read track 2 - 75 Bpi read track 3 - 210 Bpi read	Bit density
	Leserichtung	forward and backwards	Reading
	Steckgeschwindigkeit	10 cm - 1m / sec	Reading speed
	Sonderbaugruppe	secure magnetic head	Assembly
ALLGEMEIN GENERAL	Gesamter Drehwinkel	1 Mio. Headpasses	MTBF Magnetic head
	Anzahl der Impulse	500.000 cycle	MTBF contacts
	Lebensdauer (Umdrehungen)	500.000 cycle	MTBF Startswitch
	Drehmoment (Neuwert)	500.000 cycle	MTBF Motor
	Power Pull Entriegelung	min. 500 operations	Power Pull card - unlocking
	Betätigungskraft Power Pull	20-25 Newton	Activation power pull

Bei der Betätigung der Power - Pull Funktion ist der Status der Verriegelung über die Software abzufragen, und gegebenenfalls die Verriegelung wieder zu öffnen.

If the power - pull funktion has been used, the status of the locking system has to checked by software, and the locking system has to be moved to open position.

Konditionen Lebensdauer:

In einer sauberen Büroraum-Atmosphäre. In feuchter oder verschmutzter Umwelt beträgt die Lebensdauer ca. 1/3 bis 1/5 der weniger der oben erwähnten Angaben.

Conditions lifetime:

In a clean office room. In damp or dirty atmosphere, the life may be 1/3 to 1/5 or less of the above figures

Die Lebensdauer des Magnetkopfes und der Chipkontakte hängt stark von der Einsatzbedingung des jeweiligen Lesegerätes ab. Unsere Angaben beziehen sich auf saubere Karten in sauberer Büroraum- Atmosphäre. Dauertests unter Berücksichtigung dieser Randbedingungen bestätigen die Lebensdauerangaben. Bei klimatisch extremeren Bedingungen innerhalb des zulässigen spezifizierten Temperatur- und Feuchtigkeitsbereiches, bei staub- und schmutzhaltiger Atmosphäre oder bei Schmutzeintrag durch die Karten können die Lebensdauerwerte deutlich unterschritten werden. Der erhöhte Verschleiß an Magnetkopf oder an den Chipkontakten kann dann den Austausch dieser Teile auch innerhalb der Gewährleistung erfordern. Verschleißteile sind deshalb von der Gewährleistung ausgeschlossen.

The life time of the magnetic head and the chip contacts depends strongly of the operation condition of the respective card reader. Our datas refer to clean cards in a clean office atmosphere. Long time running tests confirm the life time details under consideration of these frame conditions. Under climatically more extreme conditions within the permitted specified temperature and humidity, in a dusty or dirt containing atmosphere or dirt by entering the cards, the life expectancy datas can be much lower. The increased wear of the magnetic head or the chip contacts can also require the exchange of these parts within the ensureness period. These wear parts are therefore excluded from the ensureness.

ELEKTRISCHE DATEN | ELECTRICAL DATA

ANSCHLUSSTECHNIK <i>CONNECTION TECHNIQUE</i>	Versorgungsspannung Verriegelungs-Motor Stromaufnahme Interface	5V Operations 50mA max. 250mA USB	<i>Power requirements</i> <i>Locking motor current</i> <i>Interface</i>
COMMUNICATIONS <i>PROTOCOLL</i> <i>WITH SMART CARD</i>		T = 0 T = 1	
MTBF (ELECTRONICS)		90.000 hours	
CHIPKONTAKTE <i>CHIP CONTACTS</i>	Durchgangswiderstand IEC 512-2	< 100 mΩ	<i>contact resistance</i>
	Isolationswiderstand IEC 512-2 Test 2a	> 10 ¹² Ω	<i>Isolation resistance</i>
	Bemessungs- Stoß Spannung IEC 664	800 V (eff / -)	<i>Impulse voltage</i>
	Verschmutzungsgrad IEC 664	2	<i>Pollution</i>
	Luftstrecke IEC 664	> 0,6mm	<i>Clearance distance</i>
	Kriechstrecke IEC 664	0,6mm	<i>Creepage distance</i>
	Kontaktkapazität IEC 512 - , Test 22a	< 6 pF	<i>Contact capacity</i>

UMGEBUNGSBEDINGUNGEN | ENVIRONMENTAL CONDITIONS

PRÜFKLASSE <i>TEST CLASS</i>	IEC / EN 60068		
KLIMATISCHE BEDINGUNGEN <i>CLIMATIC CONDITIONS</i>	Lagertemperatur Betriebstemperatur Luftfeuchtigkeit Luftdruck	EN 60721-3-3 (3K6) - 30°C ... + 70°C - 30°C ... + 65°C 10 ... 100% relative Luftfeuchtigkeit, nicht kondensierend 70 ... 106 kPa	<i>Storage temperature</i> <i>Operating temperature</i> <i>Humidity</i> <i>Air pressure</i>
CHEMISCH-AKTIVE STOFFE <i>CHEMICAL ACTIVE</i> <i>SUBSTANCE</i>	EN 60721-3-3 (3C2)		
MECHANISCHE-AKTIVE STOFFE <i>MECHANICAL ACTIVE</i> <i>SUBSTANCE</i>	EN 60721-3-3 (3S2)		

**MECHANISCHE
BELASTUNG
MECHANICAL LOAD**

EN 60721-3-3 (3M2)

SCHWINGEN VIBRATION	Frequenzbereich	IEC 68-2-6 DIN 60068-2-6 60-150 HZ	<i>Frequency range</i>
	Amplitude	± 0,35 mm 49 m / s	<i>Amplitude</i>
	Dauer der Beanspruchung	150 min / Achse	<i>Time of testing</i>
	Durchlaufgeschwindigkeit	1 Oktave / min	<i>Speed</i>
	Anzahl der Zyklen	20	<i>Number of cycles</i>
SCHOCKEN SHOCK	Impuls	IEC 68-2-27 DIN 60068-2-27 50 g / 11 ms	<i>Impulse</i>
	Anzahl	18	<i>Number</i>
	Häufigkeit	1 Schock / s	<i>Frequency</i>
DAUERSCHOCKEN PERMANENT SCHOCK	Impuls	IEC 68-2-29 DIN 60068-2-29 40 g / 6 ms	<i>Impulse</i>
	Anzahl pro Lage	100 ± 5	<i>Number per axis</i>
KIPPFALLEN DROP TEST	Unterlage	IEC 68-2-31 DIN 60068-2-31 PVC auf Beton	<i>Surface</i>
	Fallhöhe	25 mm	<i>Drop height</i>
	Schräglage	30°	<i>Angle</i>

Pos. 5 FAMILIE | PRODUCT FAMILY

5

8	6	2	-	C													
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C

Vorbereitet für CRA Cyber Resilience Act

Pos. 6 SCHNITTSTELLE | INTERFACE

6

8	6	2	-	C													
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0

ohne | without

1

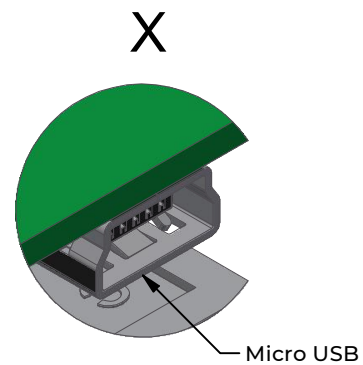
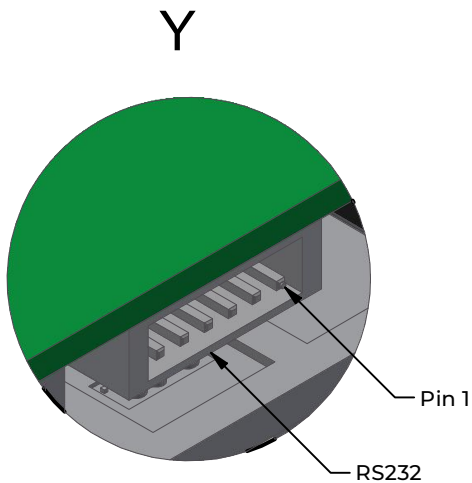
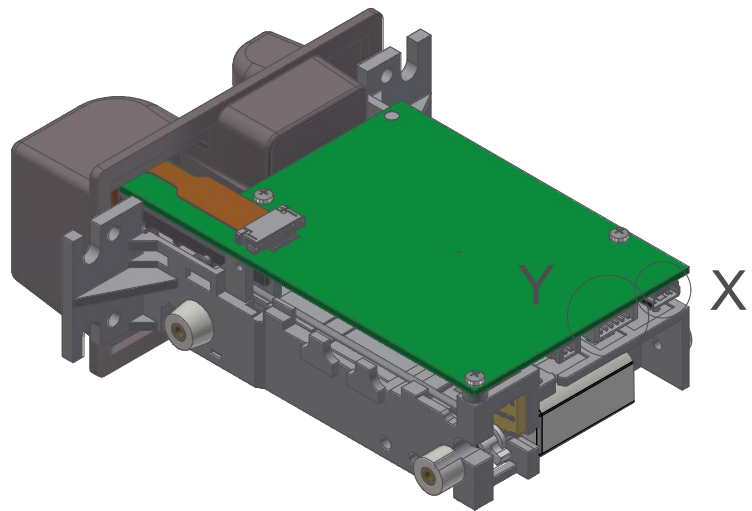
RS232

2

USB Version 2

3

RS232 + USB Version 2

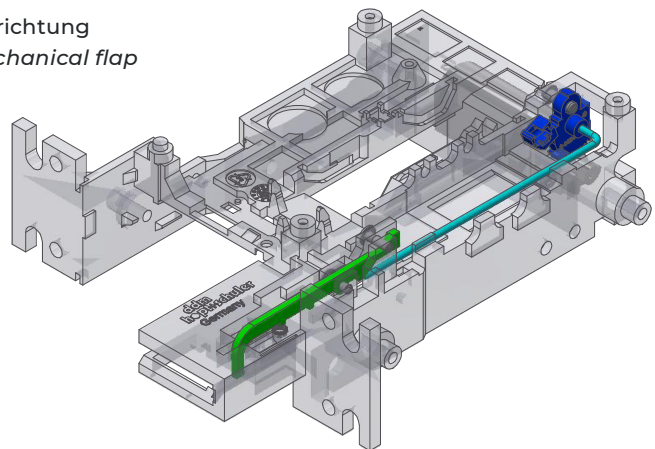


Pin	Direction	Signal
1	In	not connected
2	Out	TXD
3	Out	not connected
4	In	RXD
5	In	GND
6	In	VCC

Pos. 7 KARTEN-VERRIEGELUNGSSYSTEM | CARD LOCKING SYSTEM
7

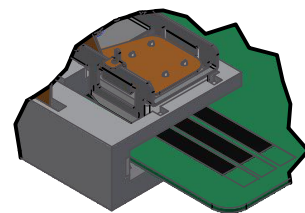
8	6	2	-	C															
---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 0** ohne Verriegelung, ohne Power Pull, ohne Sperrvorrichtung
without locking-system, without power pull, without mechanical flap
- 1** motorische Verriegelung, ohne Power Pull, ohne Sperrvorrichtung
motorized locking-system, without power pull, without mechanical flap
- 2** motorische Verriegelung, mit Power Pull, ohne Sperrvorrichtung
motorized locking-system, with power pull, without mechanical flap
- 3** ohne Verriegelung, ohne Power Pull, mit Sperrvorrichtung
without locking-system, without power pull, with mechanical flap
- 4** mit Verriegelung, ohne Power Pull, mit Sperrvorrichtung
with locking-system, without power pull, with mechanical flap
- 5** mit Verriegelung, mit Power Pull, mit Sperrvorrichtung
with locking-system, with power pull, with mechanical flap


Pos. 8 SPURLAGE | TRACK-POSITION
8

8	6	2	-	C															
---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 0** ohne
without
- 6** mit 3-Spurleser
with 3 track reader ISO-1+ISO-2+ISO-3 210+75+210 BPI


Pos. 9 KONTAKTE | CONTACTS
9

8	6	2	-	C															
---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 0** ohne
without
- 1** ISO-8
ISO-8
- 2** Distanz für Kontaktträger
contact carrier spacing

Pos. 12

BAUFORM (GEHÄUSE AUSFÜHRUNG) / **DESIGN** (BODY)

[illegible]

A detailed 3D CAD model of a complex mechanical assembly, possibly a mold or a specialized machine component. The assembly is rendered in a dark gray color. It features a central rectangular block with various internal cavities and channels. On the left side, there are two circular ports or openings. The right side shows a more intricate structure with multiple small components, including what appears to be a spring mechanism and a small rectangular plate. The overall design is precise and technical, typical of engineering software output.

A detailed 3D CAD model of a complex mechanical assembly, possibly a mold or a specialized fixture. The model is rendered in a dark gray color. It features a large, rectangular base with various internal cavities and channels. On top of this base, there are several smaller components, including what appears to be a cylindrical part on the left, a central rectangular block with a circular feature, and a larger, more complex assembly on the right. This right-side assembly includes a vertical plate with a circular hole and a horizontal plate with a rectangular slot. The overall design suggests a precision-engineered part used in manufacturing or research.

A detailed 3D CAD model of a complex mechanical assembly, possibly a mold or a precision fixture. The assembly is composed of several interconnected plates and components. On the left, there is a large, dark grey base plate with two prominent cylindrical ports or nozzles extending outwards. A smaller, lighter grey plate is mounted on top of this base. To the right, another large plate is connected, featuring various slots, holes, and a smaller cylindrical component. The entire assembly is held together by numerous screws and bolts, indicating a high-precision, adjustable mechanism. The model is rendered in a clean, technical style with soft shading to highlight the geometric details.

A detailed 3D CAD model of a complex mechanical assembly, possibly a mold or a specialized machine component. The assembly is rendered in a dark gray color. It features a large, rectangular base plate with various mounting points and a central circular feature. A prominent vertical post is located on the left side. The assembly is composed of numerous smaller parts, including plates, pins, and a complex internal mechanism that appears to be a sliding or clamping system. The overall design is intricate, with many surfaces and edges visible, suggesting a high-precision manufacturing process.

A detailed 3D CAD model of a complex mechanical assembly, possibly a mold or a specialized fixture. The assembly is rendered in a dark gray color. It features a large, rectangular base plate with various cutouts and mounting points. On top of this base, there are several vertical supports, including a prominent one on the left side. A central horizontal component, possibly a plunger or a guide, is visible. To the right, there's a smaller, more intricate sub-assembly that appears to be a part of the main structure. The overall design suggests a precision-engineered component used in manufacturing or research.

A detailed 3D CAD model of a complex mechanical assembly, possibly a mold or a specialized machine component. The assembly is composed of numerous interconnected parts, including a large base plate, several vertical supports, and various internal mechanisms. The design features a high degree of precision, with many small, intricate components. The overall structure is rectangular with a complex internal layout, suggesting it is designed for a specific manufacturing or industrial application. The model is rendered in a dark gray color, highlighting the geometric details and the assembly's complexity.

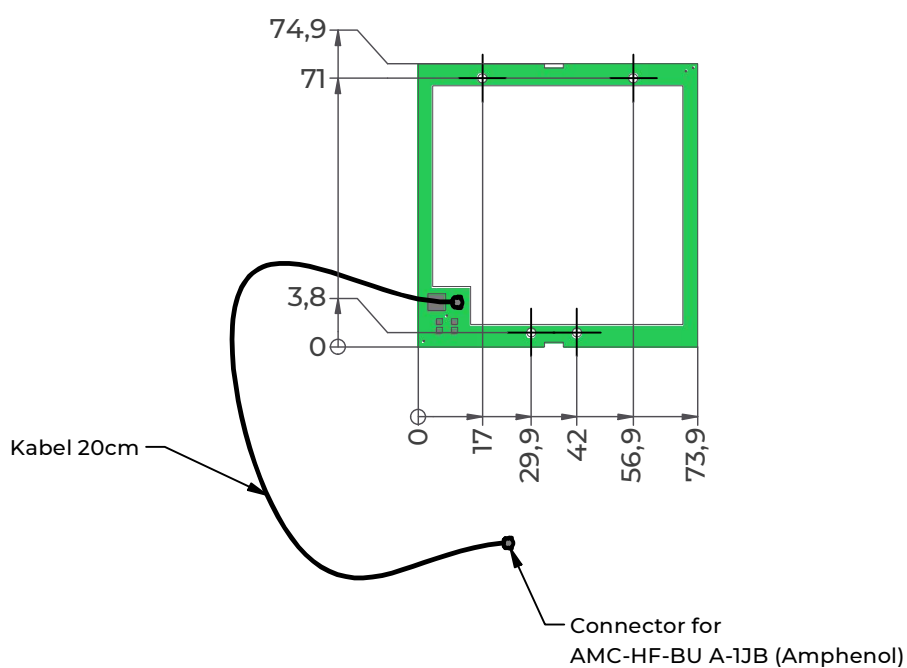
862-C

Pos. 13 RFID



862-C

- 0** ohne RFID
without RFID
- 1** mit RFID interne Antenne
with internal RFID antenna
- 2** mit RFID externe Antenne
with external RFID antenna



Pos. 14 + 15 FIRMWARE



- 00** Standard
standard

Anschrift | Address

Firma: Company:	_____	Datum: Date:	_____
Adresse: Address:	_____	Tel.: Phone:	_____
Name: Name:	_____	Fax: Fax:	_____
Kundennr.: Customer No.:	_____	E-Mail: E-Mail:	_____

Bestellschlüssel | ordering code

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	8	6	2	-	C										

Schnittstelle Interface	_____
Verriegelungssystem, Sperrvorrichtung locking-system and mechanical flap	_____
Spurlage track-position	_____
Kontakte contacts	_____
Option Karteneinführung option bezel	_____
Leiterplatten Optionen PCB options	_____
Bauform (Gehäuse Ausführung) design (body)	_____
RFID RFID	_____
Firmware firmware	_____

Muster und 3D-Daten | Samples and 3D Data

Bitte nutzen Sie die nebenstehenden Links und QR-Codes, um Ihre individuellen Muster und 3D-Daten anzufordern.

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sales@hopt-schuler.com



Please use the links and QR-codes beside to require your specific samples and 3D Data.

RoHS/REACH

RoHS 3 + REACH conformity explanation

Hiermit bestätigen wir, dass das Produkt

Hereby we confirm that the product

keinerlei giftige Substanzen enthält, die in der RoHS II Directive 2011/65/EU
und in der REACH - Richtlinie (EC) Nr. 1907/2006 spezifiziert sind

*does not contain any substances, which are specified in the RoHS 3 Directive (EU) 2015/863
and in the REACH - Directive (EC) No. 1907/2006.*

Die RoHS II Directive 2011/65/EU - Konfirmität wird bestätigt!

Die REACH - Richtlinie (EC) Nr. 1907/2006 - Konformität wird bestätigt!

The RoHS 3 Directive (EU) 2015/863 conformity is confirmed!

The REACH - Directive (EC) Nr. 1907/2006 conformity is confirmed!

ISO 9001 Qualitätsmanagement

ISO 14001 Umweltmanagement

