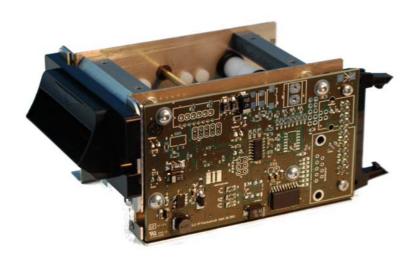
CCR x

Specification Motor-Driven Card-Reader for

Magnetic-Stripe-Cards and RFID-Technologies



Date of issue: 120125/2



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1. Current Revision Status

Rev.	Descriptions	Date	Signet
00	preliminary description	21 Nov. 2011	wri
01	Additional Signals for Mover-Version	05 March 2012	wri

2. Description Motor-Driven Card-Reader CCRx

The card reader with rear ejection possibility for versatile usage in vending machines, gate- barrier- and access control systems; -and a plenty of furthermore applications.

Handles 3-track-magnetic cards and/or optional RFID-cards

Optional accessories:

- Card slot
- electromagnetically lockable fine mechanical shutter
- at the drive rolls opposite are rotational rolls for counter pressure, so there is only rolling friction no sliding friction at the card
- card drive power transmission from the geared motor with drive belt
- compact, robust and corrosion resistance construction and the light weight allow easy installation in any terminal or casing indoors and outdoors
- proved construction guarantees a lowmaintenance operation and durability



drawing 1



drawing 2



3. Available Versions

Order Number	Read Track	RFID	Building
CCR 1-01	1+2+3	primed	Mouth Piece Version "V" with mechanical Shutter (see drawing 1)
CCR 1-02	1+2+3	primed	Mouth Piece Version "V" with electronic Shutter (see drawing 1)
CCR 1-03	1+2+3	primed	Mouth Piece Version "M" (see drawing 2)
CCR 0-01	Mover	primed	Mouth Piece Version "V" with mechanical Shutter (see drawing 1)
CCR 0-02	Mover	primed	Mouth Piece Version "V" with electronic Shutter (see drawing 1)
CCR APP-01	-	APP (Multi 13,56MHz Module)	Mouth Piece Version "V" with mechanical Shutter (see drawing 1)
CCR APP-02	-	APP (Multi 13,56MHz Module)	Mouth Piece Version "V" with electronic Shutter (see drawing 1)

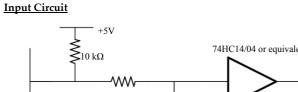


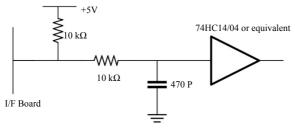
4. Specification

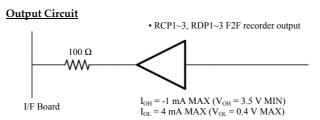
Recommended card type		optional:	Magnetic card ISO7810, 7811/1-5, 7812, 7813, ff.	
		•	Optional Multi 13,56MHz RFID Module	
			(see separate specification)	
Recommended card this	ckness (min	0,7 - 0,9 mm		
Recording method			FM decoding (F2F)	
Card driving speed			Ca. 34 cm/sec.	
Motor type		DC Motor		
Service life	Magnetic head:		Ca. 1 000 000 passes*	
(depending at	Transport mechanic:		Ca. 1 000 000 passes*	
environmental	environmental			
influences)				
Operating power supply	1	24 VDC ±10%		
Waiting current consum	ption	170 mA		
Operating current consu	umption	480 mA		
Start-up, reverse curren	nt consumption	2 A		
Mounting location			indoors and outdoors	
Operating ambient temp	perature	-15°C to 60°C		
Operating ambient humidity			30% to 85% RH (without condensation)	
Dimensions without Shutter or card Length:		106		
slot (mm ±0,1)		Width:	83	
		Height:	60	
Weight without Shutter or card slot (g ±1)			270	

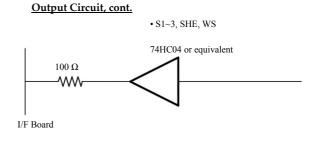
^{*}One pass denotes one-way travel of card feed.

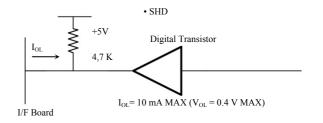
5. Engineering Data













6. I/O Information

(all signals are active-low)

Card reader side: Hirose Electric HIF3BA-26PA-2, 54DS (male) Cable side: Connector socket conforming to MIL-C-83503 (female); Berg 66900-266 or 65846-002; 3M 3399-6500SC+3448-3926J (connector + strain relief, cable-side connector is not included).

Pin#	Signal	Input / Output	Description
1	24V		24 VDC
2	24V		24 VDC
3	POV		0 VDC
4	POV		0 VDC
5	MFS	Input	Motor forward signal
6	MRS	Input	Motor reverse signal
7	S1	Output	Card location sensor 1
8	S2	Output	Card location sensor 2
9	S3	Output	Card location sensor 3
10			
11	RDP1	Output	Read data, track 1
12	RCP1	Output	Read clock, track 1
13	RDP2	Output	Read data, track 2
14	RCP2	Output	Read clock, track 2
15	RDP3	Output	Read data, track 3
16	RCP3	Output	Read clock, track 3
17	FO***	Input	Card Front Out
18	TO***	Output	Time Out Ejection
19	RO***	Input	Card Rear Out
20	CLS***	Output	Card Load Signal
21	WS*	Output	Card width switch
22	SHD*	Output	Sense head detector
23	SO*/**	Input	Shutter open/close
24	SHE*/**	Output	Shutter echo switch
25	On/off***	Input	CLS time out
26	0 VDC		0 VDC (GND)

^{*}Signals applicable when OMRON-shutter is attached.

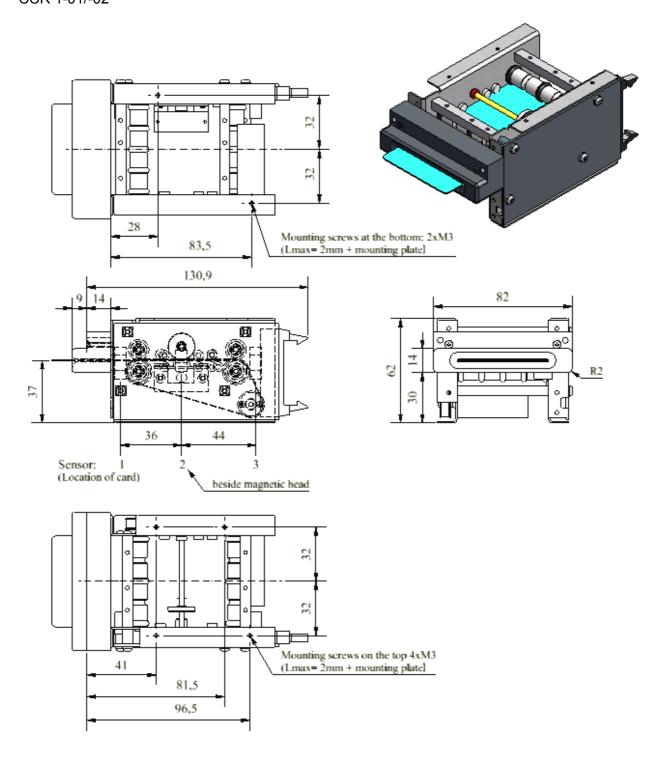
^{**}Signals applicable when "V"-shutter is attached.

^{***}Signals only by Mover-Version



7. Dimensional Outline Drawing

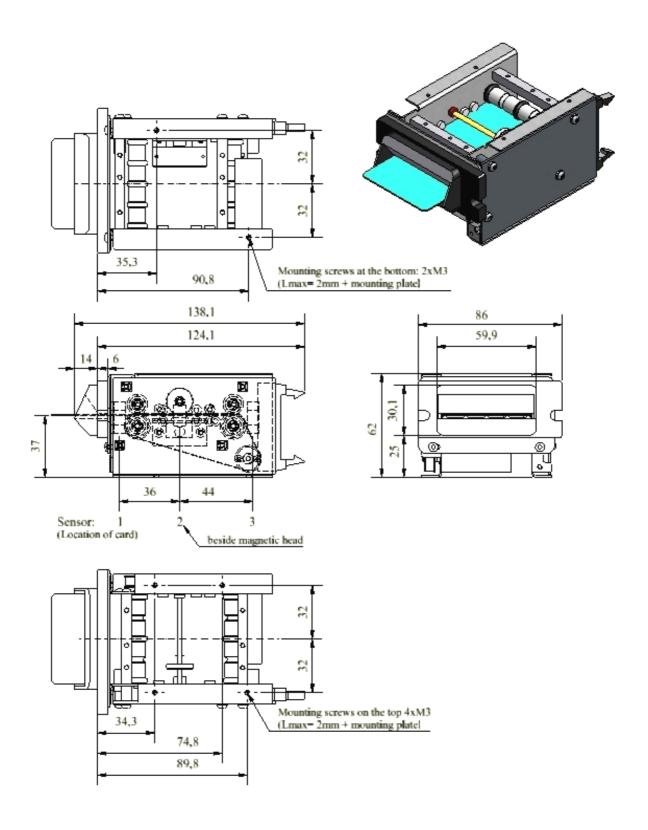
CCR 1-01/-02





CCR 1-03 (Mouth Peace same as MBR 1)

Attention: The next version will be included the mounting by offer top side!





8. Final Clause

The data serve the product description and are no assured properties. For faulty information and themselves from it originating damages the W.ARNOLD GmbH takes over no liability. Single properties can be changed without previous announcement if arises from it no change of the functionality of the product.

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