

IC-05 Card capture reader



+55
+1
temperature
range

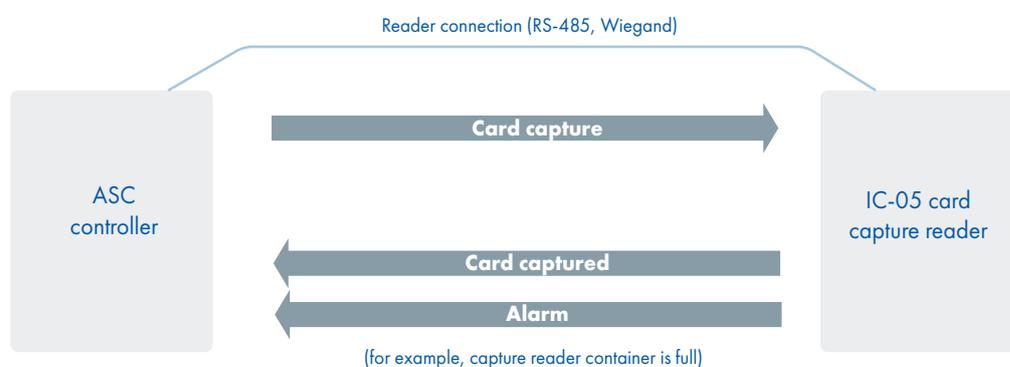
12V
operating
voltage

Application

IC-05 Card capture reader is designed to operate as a part of ACS as a reading and card capture device.

The card capture reader is to be connected to the ACS-controller. The reader is to be chosen by the Customer and installed when mounting.

The card capture reader can operate both as a part of the PERCo access control system and together with third-party controllers.



Functionality

- possibility to install any reader which allows operating with all formats of proximity cards (a reader is to be purchased for card capture reader operation)
- reading the identifier from the card inserted into the card capture reader slot
- capturing temporary visitor cards upon receipt of the command from ACS-controller
- reading permanent employee cards and transferring it to the ACS-controller
- optical sensors to control card capturing and filling of the container
- protective shutter to receive cards which prevents foreign objects from falling into the container and also cards that should not be withdrawn
- card capture slot form that allows withdrawing cards with the standard clips for badges
- indication block built into the card capture reader top cover indicating operating modes of the ACS-controller with two variants of passage directions indication (on the left or on the right of card capture reader)
- LED backlight of the card capture slot

IC-05 Card capture reader

- easy access to the container from the front side of the card capture reader, container is locked with a key
- safe operating voltage and low power consumption
- housing is made of stainless steel and ABS-plastic



Pictogram indication block



Easy access to the card container

Operating conditions

The card capture reader, with regard to resistance to environmental exposure complies with GOST 15150-69 category NF4 (operation in premises with climate control).

The card capture reader should be operated at ambient air temperature from +1 °C to +55 °C and at relative air humidity of up to 70% at +27 °C.

Delivery set

Card capture reader	1
Key to the container	2
Mounting hardware (set)	1
Technical documentation (set)	1
Optional equipment (upon request)	
SORMAT PFG IR 10 anchor bolt	4
SW8 Allen key (for M10 bolts)	1

Operating condition

Operating voltage	12±1.2 VDC	
Current consumption*	max. 1.8 A	
Power consumption	max. 22 W	
Container capacity	350 cards	
Technical specifications of the built-in reader:	overall dimensions (L×W×H)	max. 145×50×28 mm
	identifier reading range	min. 40 mm
Mean time to failure	min. 1,000,000 captures	
Mean lifetime	8 years	
Electric shock protection class	III	
Ingress Protection Rating	IP41	
Overall dimensions	197×157×990 mm	
Card capture reader weight	max. 15 kg	
Package overall dimensions	112×23×28 cm	
Gross weight	max. 23 kg	

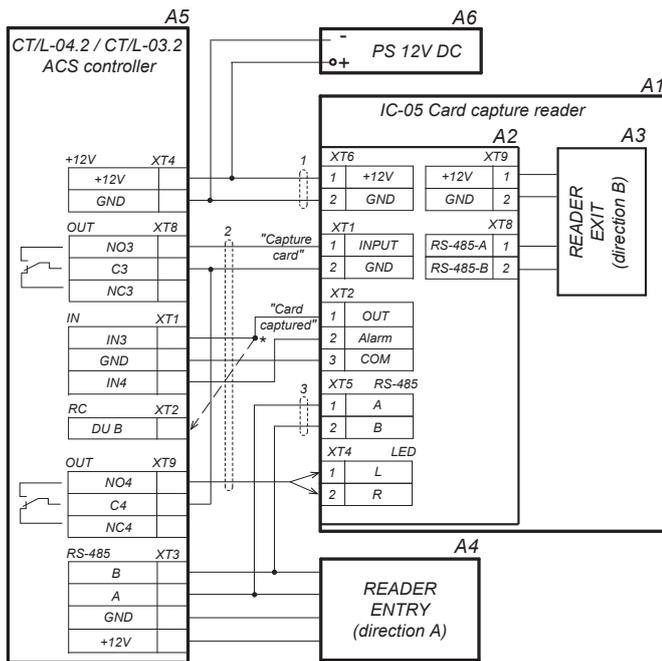
* Power supply should provide current reserve of not less than 30%.

** Recommended cable types:

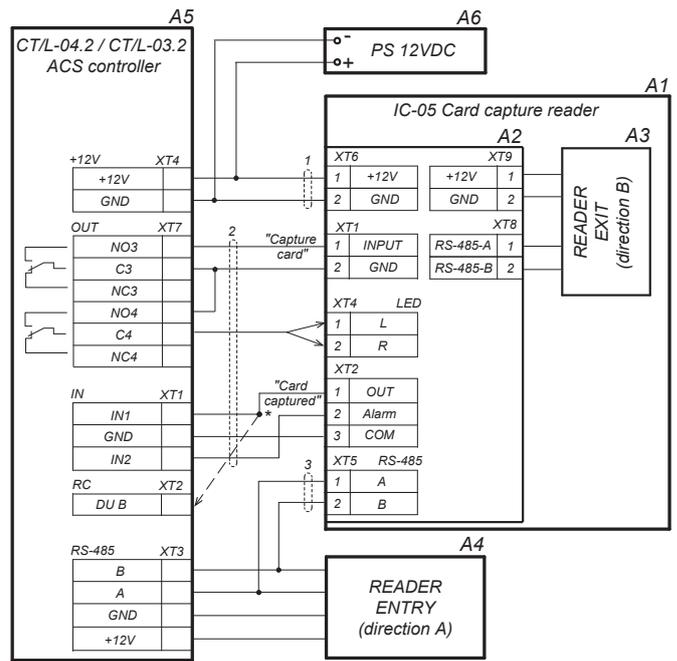
- power cable - AWG 18; HO3VV-F 2×0.75 bi-colored,
- RS-485 bus - 2×2×0.52 F/UTP2-Cat5e,
- control cables and Wiegand bus - RAMCRO SA82BI-T, CABS8/EC, W8ekw 24AWG – 18AWG (0.2 - 0.8 mm²)

IC-05 Card capture reader

Connection



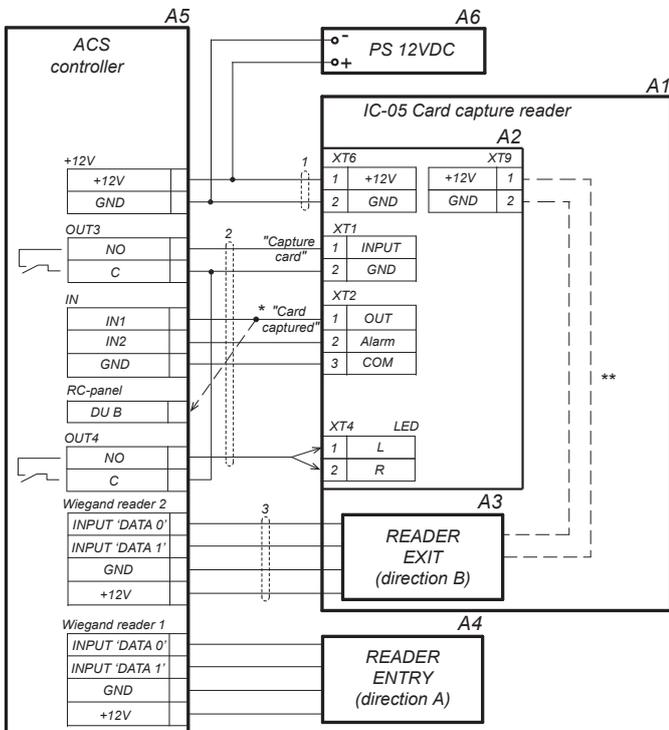
* If all additional inputs of the controller are occupied, then the "Card captured" output is connected parallel with the RC-panel to the input of the controller "DU B" (or "DU A", depending on the direction of the passage).



* For CT/L-04 controllers with firmware version x.0.0.19 and below, the "Card captured" output is connected in parallel with the RC-panel to the input of the controller "DU B" (or "DU A", depending on the direction of the passage). The same connection method can be used if all additional controller inputs are occupied.

Connection of the card capture reader to the CT/L-04.2, CT/L-03.2 via RS-485 interface

Connection of the card capture reader to the CT/L-04.2, CT/L-03 via RS-485 interface



Connection of the card capture reader to the ACS controller via Wiegand interface

IC-05 Card capture reader

Card capture reader control board description	
Item	Description
A1	Card capture reader
A2	Card capture reader control board
A3*	Reader (direction B)
A4*	Reader (direction A)
A5*	ACS-controller
A6*	Power supply 12 VDC/2.5 A
1*	Card capture reader power cable
2*	ACS-controller connection cable
3*	Reader connection cable

* equipment is not included in the standard delivery set.

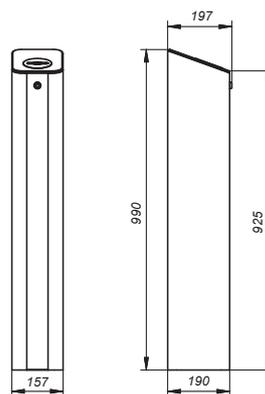
Control board contacts description by connectors			
Connector	Contact	Electrical circuit	Designation
XT1	INPUT	"Capture card"	Input of the control signal from ACS-controller to card capturing
	GND		
XT2	OUT	"Card captured"	Output of card capturing confirmation
	Alarm	"Failure"	Signal of container malfunction or filling
	COM		Common for "Card captured" and "Alarm" signals
XT4	L	"LED"	Activation of left green arrow
	R		Activation of right green arrow
XT5	A	"RS-485-A"	RS-485 bus to the controller
	B	"RS-485-B"	
XT6	+12V		Card capture reader power supply input
	GND		
XT8	A	"RS-485-A"	RS-485 bus to the reader
	B	"RS-485-B"	
XT9	+12V		Output of the reader power supply
	GND		

When connecting the card capture reader, proceed as follows:

- use the reader built into the card capture reader as one of the readers
- use one of the ACS-controller additional outputs for the "Capture card" signal
- use one of the additional inputs to receive the "Card captured" signal from card capture reader
- use one of the additional inputs to receive the "Alarm" signal from the card capture reader
- use one of the ACS-controller additional outputs or one of external indication output from the OD control board (turnstile, gate), if any, to control passage granting indication on the card capture reader

IC-05 Card capture reader

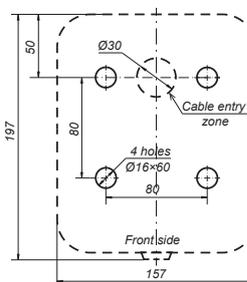
Overall dimensions



Overall dimensions

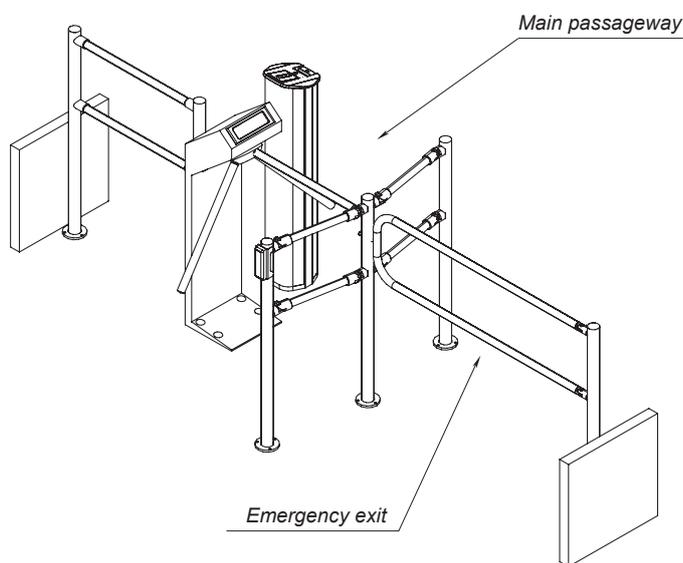
Mounting

Foundation requirements: concrete (grade 400 or higher), stone or similar foundations of at least 150 mm thick. For the installation of the card capture reader on a less steady foundation it is recommended to apply reinforcing elements (300×300×150 mm)



Hole marking for the card capture reader installation

Passage zone modeling



Example of an entrance zone project

Warranty

The warranty period is 5 years commencing from the date of sale if other is not stated in the contract for product delivery. In case of purchase and installation of the equipment by PERCO authorized dealers and service centers, the warranty period starts from the moment of the commissioning.

Should there be no date of sale on the warranty card, the warranty period shall commence from the date of manufacture specified in the Certificate and on the Product label.