

## CHAMELEON CONTROLLER

CH002

V1.2

### Product features

- To be mounted on DIN rail
- LAN port
- CAN port
- LS bus port
- 1 RS-232 port
- 2 Wiegand-ports (instead of 2x2 digital inputs)
- 2 analog inputs
- 7 digital inputs
- 6 relay outputs (max. 10A per channel)



Parameter	Condition	Value			Unit
		Min	Typical	Max	
Power supply		15,0	24,0	30,0	V
Power uptake		0,1		1,0	A
LS bus					
LS bus power supply		11,7	12,0	12,4	V
LS bus current	between +12V and GND			1,0	A
Digital input / Wiegand port					
Digital input contact resistance				825,0	Ω
Input low voltage level		- 0,5		1,0	V
Input high voltage level		3,0		5,5	V
Output low voltage level	$I_{OL} = 20\text{mA}$			0,7	V
Output high voltage level	$I_{OH} = -20\text{mA}$	4,2		5,5	V

Parameter	Condition	Value			Unit	
		Min	Typical	Max		
RS-232 port						
Receiver (RX) Line Voltage Levels		-	25,0		25,0	V
Transmitter (TX) line voltage levels		-	13,2		13,2	V
Relay output						
Connected voltage	DC				30,0	V
	AC				277,0	V
Max load					10,0	A
Control-contact lining					4,0	kV
Contact lining					750,0	Vrms
Operating time					10,0	ms
Release speed					4,0	ms
Switching frequency					4,0	Hz
Electrical service life	10A, 250Vac		30 000			switch
Mechanical service life			10 000 000			switch

Connector layout		Function
Top first row		
DIGITAL IN / WIEGAND	DIN1/W1H	Digital inputs / Wiegand port #1
	DIN2/W1L	
	GND	ground
	DIN3/W2H	Digital inputs / Wiegand port #2
	DIN4/W2L	
DIGITAL IN	GND	ground
	DIN5	Digital inputs
POWER	+24V	power
	GND	ground
CAN	CANH	CAN bus H
	CANL	CAN bus L
LS	+12V	power
	LS	LS bus data line
	GND	ground
RS-232	TX	RS-232 transmitter line
	GND	ground
	RX	RS-232 receiving line
Top rear row		
10A RELAY 1	COM	Relay1 output (switched)
	NO	Relay1 input (phase)
10A RELAY 2	COM	Relay2 output (switched)
	NO	Relay2 input (phase)
10A RELAY 3	COM	Relay3 output (switched)
	NO	Relay3 input (phase)
Bottom front row		
DIGITAL IN	DIN6	Potential-free (dry) digital contact
	DIN7	Potential-free (dry) digital contact
ANALOG IN	GND	ground
	AIN1	Analog 0...10V voltage signal input
	GND	ground
	AIN2	Analog 0...10V voltage signal input
USB	GND	ground
	USB 1	USB1 port
	USB 3	USB3 port

Connector Layout		Function
Bottom rear row		
10A RELAY 4	NO	Relay4 output (switched)
	COM	Relay4 input (phase)
10A RELAY 5	NO	Relay5 output (switched)
	COM	Relay5 input (phase)
10A RELAY 6	NO	Relay6 output (switched)
	COM	Relay6 input (phase)
LAN		Ethernet port
USB	USB 2	USB2 port
	USB 4	USB4 port

Status LED	Indication	
green	2 flashes	Device is working
white	continous	Booting (60 sec)
white	2 flashes	Software update
red	2 flashes	Error
blue	2 flashes	No VPN connection

Environmental parameters	
Safety rating	IP 20
Temperature resistance	0-40 °C

Logistic data	
Net weight	295 g
EAN	5999572900007
Dimensions (incl. connectors)	112 x 62 x 108 mm



CISPR 24 /IEC 61000-4-3/2006-09  
 CISPR 24 /IEC 61000-4-6/2014-05  
 CISPR 322015-11  
 IEC 62368-1:20142014-08  
 EN 505812013-02

Before installation, please study the  
Chameleon Electrical installation guide!



Download the Chameleon Smart Home  
App!



Dimensions and Connection Diagram

