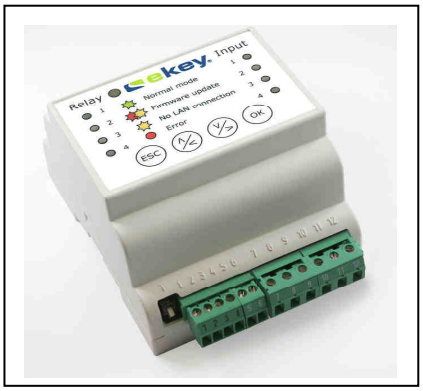
ID152/253/0/115: Version 1, 25.05.2011

ekey net control panel DRM 4



Product description

The *ekey net CP DRM 4* is a control panel (actuator) featuring 4 potential-free relays and 4 digital inputs to control motorized door locks or electric strikes. The *ekey net CP DRM 4* can only be operated within the networkable access control system *ekey net* version 4.1 and above. The *ekey net CP DRM 4* should be mounted on a 35mm DIN rail within the electric control cabinet.

Features

- DIN rail mounted device 4HP
- Mounting on 35 mm DIN rail, compliant with DIN EN 55022, respectively DIN EN 60715 TH35
- AC /DC supply
- Power supply for finger scanners of the ekey net product range with watchdog feature
- 4 relays, change-over contact, potential-free
- 4 digital inputs to monitor door status (controlled via potential-free contacts)
- Operational only within networkable access control system *ekey net*.
- Bus termination (resistor) can be activated/deactivated directly on the device.
- 4 push buttons for menu navigation
- 1 status LED for bus status
- Both status of relays and digital inputs are visualized via LEDs
- Protection class IP20

801469

Description and item number

Description	Relays	Dig. inputs	Item #:
ekey net CP DRM 4	4	4	101164

Standards

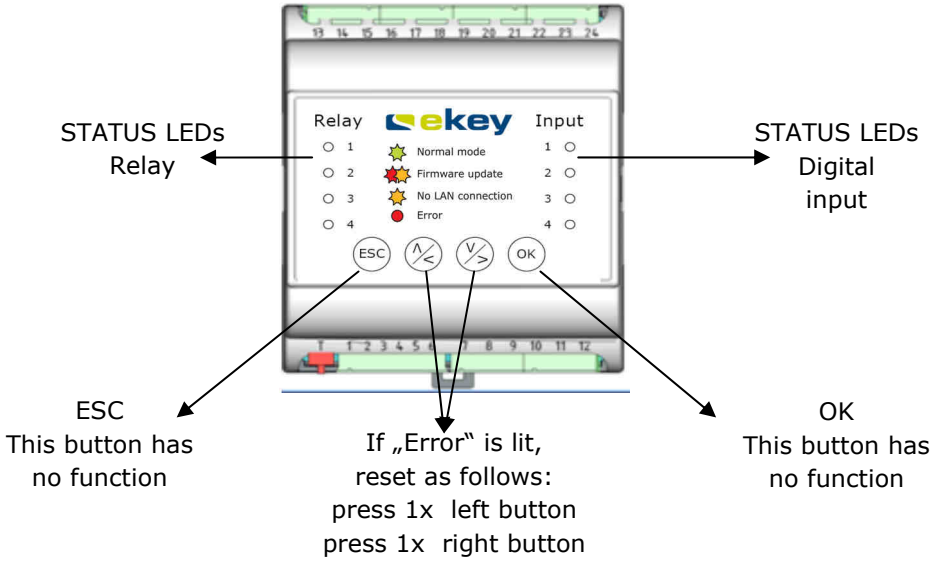
The ***ekey net CP DRM 4*** is compliant with the 2004/108/EG (CE) and 2002/95/EC (RoHs) guidelines.

Applied harmonized standards
EN 61000-6-2:2005
EN 61000-6-3:2007

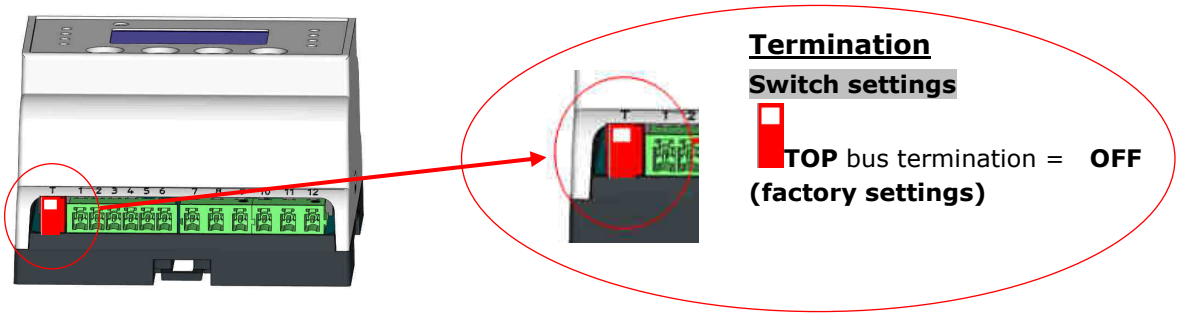
RoHS 2002/95/EC

CE

Controls and visual indications

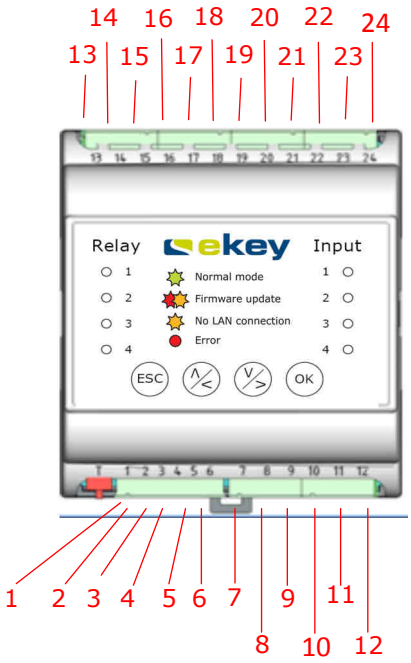


Bus termination



Pin assignment

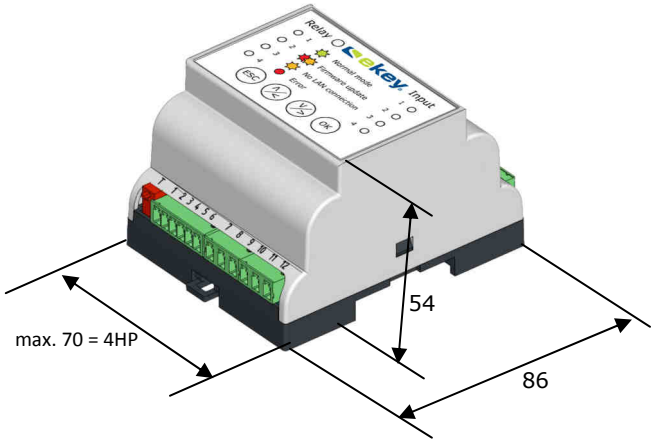
The electric connection of the *ekey net CP DRM 4* is done via screw terminals. The push terminals are supplied with the product.



Clamp #:	Signal description	Recommended cable color (ekey standard)
1	RS485 (Clamp1)	Green
2	RS485 (Clamp2)	Yellow
3	Power supply (Clamp3)	Brown
4	Power supply (Clamp4)	White
5	+VCC	-
6	-VCC	-
7	Relay 1 C (common)	-
8	Relay 1 NO (normally open)	-
9	Relay 1 NC (normally closed)	-
10	Input 12C	-
11	Input 1	-
12	Input 2	-
13	Relay 2 C (common)	-
14	Relay 2 NO (normally open)	-
15	Relay 2 NC (normally closed)	-
16	Relay 3 C (common)	-
17	Relay 3 NO (normally open)	-
18	Relay 3 NC (normally closed)	-
19	Relay 4 C (common)	-
20	Relay 4 NO (normally open)	-
21	Relay 4 NC (normally closed)	-
22	Input 34C	-
23	Input 3	-
24	Input 4	-

Dimensions

Dimensions in mm



Cable recomendation

We recommend using the cable types below in your system:

J-Y(ST)Y 4 x 2 x 0,8

Wire configuration:

2x RS485 bus (green/white) + 2x RS485 (yellow/white) as a reserve

2x power supply (red/blue)+ 2x as a reserve (brown/white) for cross-section increase for cable lengths > 50m

Technical data

Absolute maximum threshold value

Operating the devices beyond these values will destroy them!

Description		Unit	Values
Supply	AC	V	0-24
	DC	V	±30
Temperature range	Storage	°C	-20 up to +70
	Operation	°C	-20 up to +70

Electric characteristics

Technical data ekey net CP DRM		Unit	Values
Supply		VAC	8-24
		VDC	8-24
Power input		W	<1 W
Temperature range		°C	-20° up to +70
Dimensions			4HP (DIN 43880)
Interface			RS485
Relays		Quantity	4
Relay data (valid for all relay outputs)	Max. switching voltage[1)]	VAC / VDC	42
	Max. switching current [1)]	AAC / ADC	2
	Mechanical life time cycle	Number of switchings	10^7
	Electric life time cycle [2)]	Number of switchings	10^5
Inputs		Quantity	4
Electric data inputs[3)]	Low	kΩ	<1
	High	kΩ	>50

Protection class	IP	20 (to be mounted indoors, e.g. electric control cabinet)
Operation		4 buttons
Indicators and display		4 LEDs for outputs (green) 4 LEDs for inputs (red), 1 status LED for bus status
Max. cable length for communication (CLAMP 1,2) [4)]	m	500
Max. length of the power supply cable (CLAMP 5,6) when operated in an industrial area	m	30
Max. length of the connection cables for relay contact and digital input (CLAMP 7-12) when operated in an industrial area	m	30
Dimensions HxWxD	mm	86 x 70 (4HP) x 56

1) Ohmic load exclusively.
2) When switching inductive and capacitive loads, adequate safety measures should be taken in order to protect the relay contacts (sparks suppressor). The *ekey net CP DRM 4* does not feature such suppressors.
3) Define low and high, at which resistance between Input12C and Input1, respectively Input2 can low or high be identified. Same applies for Inputs34C and Input3m respectively Input4.
4) When using the recommended cables.

Accessories

No accessories available

Subject to optical and technical modifications, any liability for misprints excluded.