DoorLock-WA3 wall reader (bus) – MANUAL



ORDER-CODES:
KXC-WA3-IP1, KXC-WA3-IP2

Datasheet KXC-WA3-IPx

Overview

Kentix IP wall readers enable contactless control of doors with a MIFARE® DESFire® RFID chip. The setup always consists of the actual wall reader and the connected Kentix AccessManager. The wall reader is connected to the AccessManager via a 4-wire connection. The AccessManager itself connects directly to a Power over Ethernet (PoE) capable network switch. To control electric strikes/motor locks, the SmartRelay offers two relay outputs and, depending on the power class of the strikes, an integrated PoE splitter with 24VDC output.

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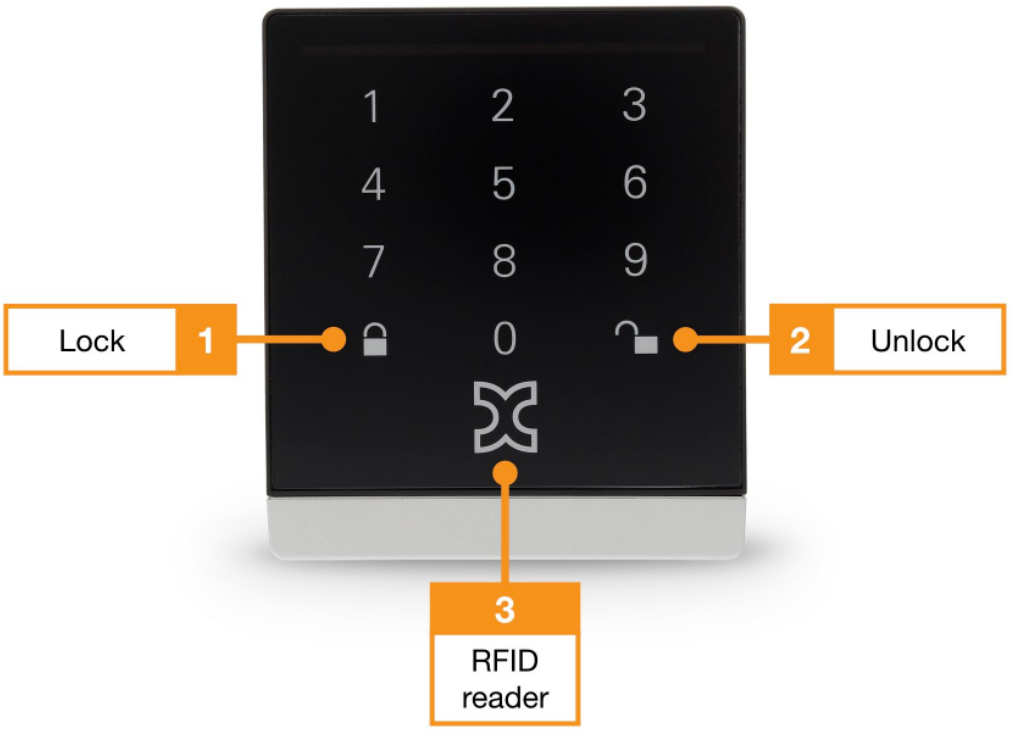
Safety instructions

Installation
Installation and commissioning may only be carried out by trained specialist personnel in accordance with the instructions.
No modifications of any kind may be made to Kentix GmbH products, with the exception of those described in the relevant instructions.
When installing Kentix devices, certain degrees of protection must be guaranteed.
Observe the relevant regulations for installations in the respective environment.
Only operate the products within the defined temperature range.
The instructions should be passed on to the user by the person carrying out the installation.
Kentix accepts no liability for damage to the devices or components caused by incorrect installation. Kentix accepts no liability for incorrectly programmed units.
Kentix accepts no liability for faults, material damage or other damage.
Use of the products, transport and storage
Protect the device from
moisture, dirt and damage during transportation, storage and operation.
Battery powered products
Do not use the products in potentially explosive atmospheres.
Only operate the products within the defined temperature range.
Installation and battery replacement may only be carried out by trained specialist personnel in accordance with the instructions.
Do not charge, short-circuit, open or heat batteries.
Observe the correct polarity when inserting the batteries.
The devices must always be operated with the batteries intended for the product.
When changing the batteries, always replace all batteries.
Dispose of old or used batteries properly.
Keep batteries out of the reach of children.
Maintenance
Kentix devices must be checked for functionality as part of annual maintenance.
Disposal
Electrical appliances and batteries must be disposed of separately from household waste.

Controls

DoorLock-WA3-V1 Front view

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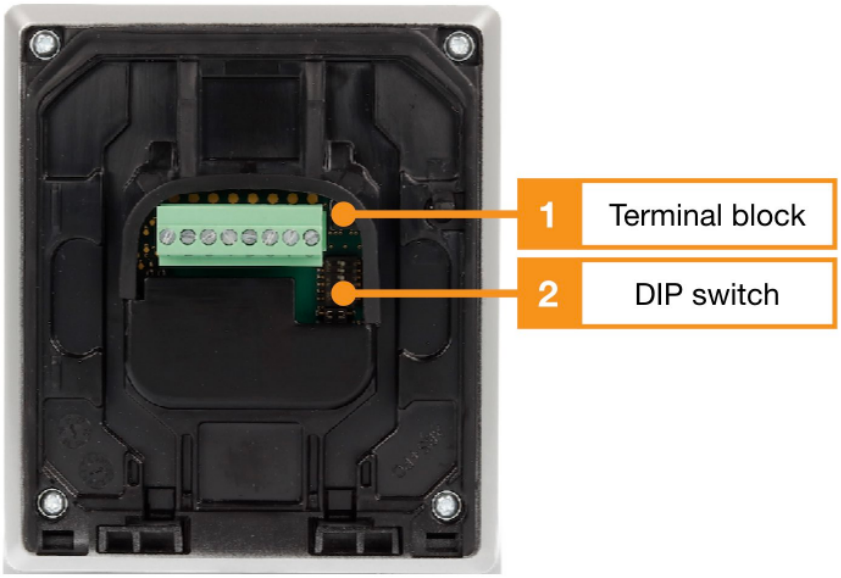
WA3 Front view

1. Touch keyboard with illuminated keypad and “arm alarm” function key
2. Touch keyboard with illuminated keypad and “disarm alarm” function key
3. Integrated RFID reader, the entire surface serves as a reading surface.

The keypad can be deactivated in the configuration screen of the wall reader (from KentixONE version 8.4.3). This can be useful if an alarm group is only to be armed or disarmed on a specific wall reader using an RFID token.

DoorLock-WA3-V1 Rear view

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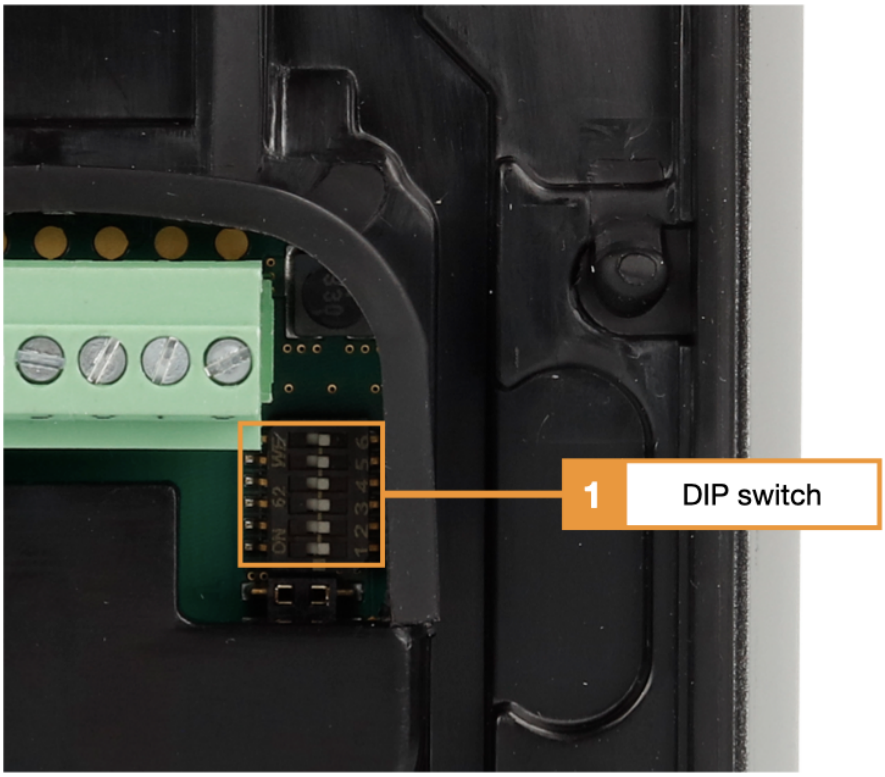
1. Connection terminals, assignment see table
2. DIP switch for configuring the address

Terminal assignment wall reader WA3-V1

Clamp	Function	Connection to AccessManager (SmartRelay)
1	RS485 Data “A	Terminal Block 2, Terminal 6 (A)
2	RS485 Data “B	Terminal Block 2, Terminal 5 (B)
3	–	
4	–	
5	–	
6	–	
7	GND	Terminal Block-2, Terminal 4 (–)
8	12-24V/DC	Terminal Block-2, Terminal 3 (+)

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KXC-WA3 Terminal assignment



1. DIP switch for configuring the address

DIP switch wall reader WA3

DIP switch	Function
1	Address bit 0 (address 1: ON; address 2: OFF)
2	Address bit 1 (address 1: OFF; address 2: ON)
3	Address bit 2 (OFF)
4	Address bit 3 (OFF)
5	Baud rate (ON)
6	Terminating resistor*

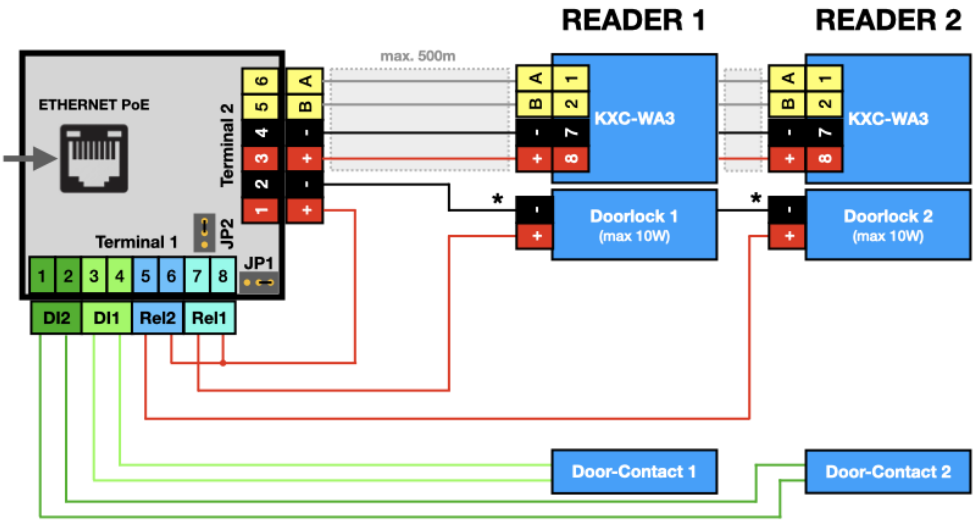
KXC-WA3 DIP switch

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*The terminating resistor is required for longer cable lengths (> 100m). As cable we recommend telecommunication installation cable e.g. TYPE: J-Y(ST)Y 2x2x0.8mm^2.

Connection examples

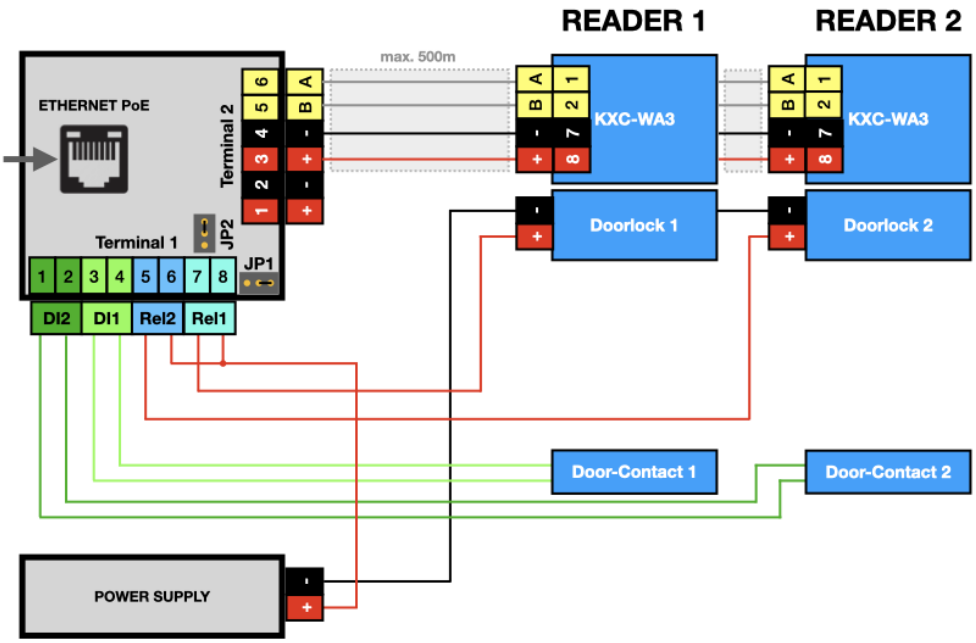
Two wall readers with door contacts and external door openers



Wiring diagram AccessManager KXP-2-RS with 2x wall reader, 2x door opener, 2x door contact

Two wall readers with door contacts and external power supply for the electric strikes

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Wiring diagram AccessManager KXP-2-RS with 2x wall readers and external power supply for the door openers

User and access management

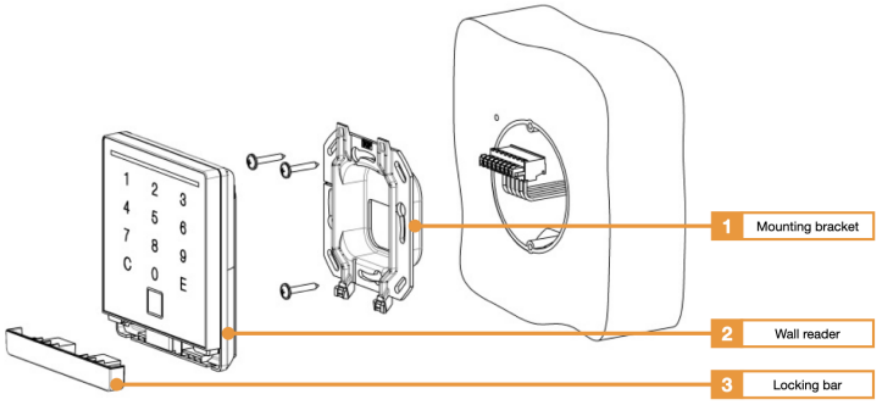
The administration of users and access rights is done on the main device of the installation with KentixOne.

All information about the software is available in the KentixONE section.

Assembly and disassembly

Flush-mounted variant

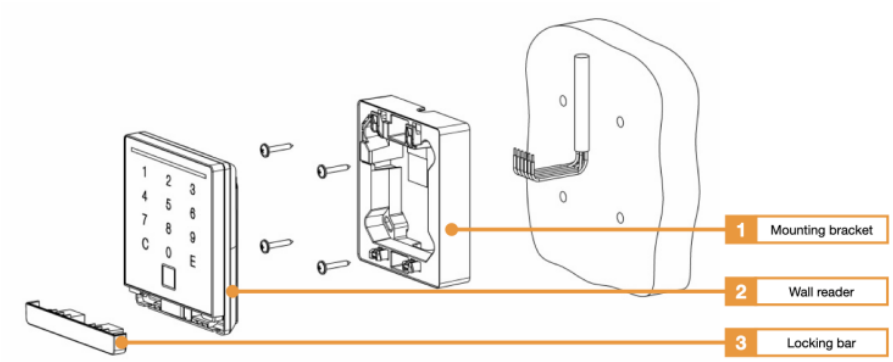
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1. Mounting bracket for flush-mounted application (included in scope of delivery)
2. Wall reader KXC-WA3
3. Locking strip

Surface-mounted version

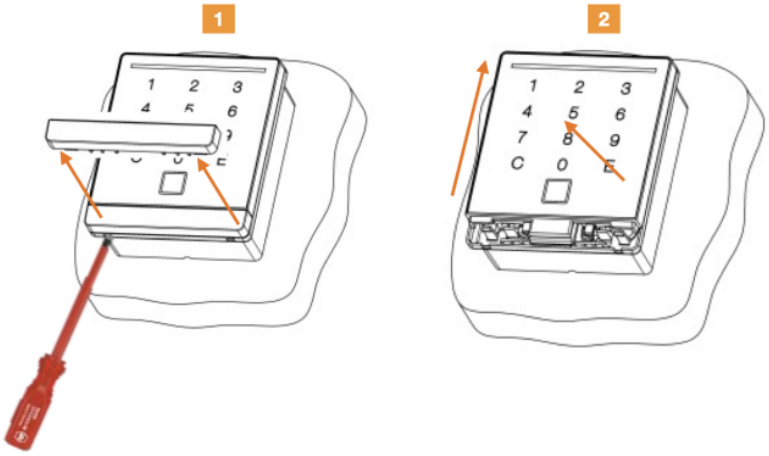
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1. Mounting bracket for surface-mounted applications KXC-WA3-SMC
2. Wall reader KXC-WA3
3. Locking strip

Dismantling

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1. Insert the screwdriver into the unlocking openings and unlock the lock. Pull out the locking bar.
2. Push the wall reader upwards and lift it forwards.

Signaling

Function	Signal and explanation
Wall reader is offline	LED flashes orange
Pine input	LED flashes blue
Access granted	short tone, LED flashes green
Door is opened by time profiles	LED lights up permanently green
Access denied	3x short beep, LED flashes red
Zone is armed	3 long tones, simultaneously LED flashes 3x red
Arming not possible	long tone, LED flashes red
Zone is armed	LED flashes red

Table signaling

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