

ORDER-CODES:

KIO3

[Quick Start Manual](#)

Overview

The extension module (system port) is used for the direct extension of Kentix devices with input/output functions, e.g. for alarm/fault messages or switching functions. The following input/output channels are available:

- Connection of up to two external messages via **potential-free** contacts
- Activation or switching of up to 2 external devices via relay contacts (changeover contact)

The module is connected to the Kentix system socket (RJ45) of the respective device. The extension module is supplied with power via the system socket of the remote station and does not require an external power source. The cable length between the remote station and the module should not exceed 10-20 meters. The relays are equipped with changeover contacts and can be loaded with up to

60VDC/3A, the inputs may only be connected potential-free.

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, other than those described in an appropriate manual, are permitted to Kentix GmbH products.

Certain levels of protection must be provided when installing Kentix equipment.

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 equipment or components resulting from incorrect installation. No liability is accepted for incorrectly programmed units.

Kentix shall not be liable in the event of malfunctions, damage to property or other damage.

Use of the products, transport and storage

Protect the device during transport, storage and operation from

Protect moisture, dirt and damage.

Battery powered products

Do not use 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 personnel in accordance with the instructions.

Do not charge, short circuit, open or heat batteries.

When inserting the batteries, pay attention to the correct polarity.

The devices must always be operated with the batteries intended for the product.

When changing 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.

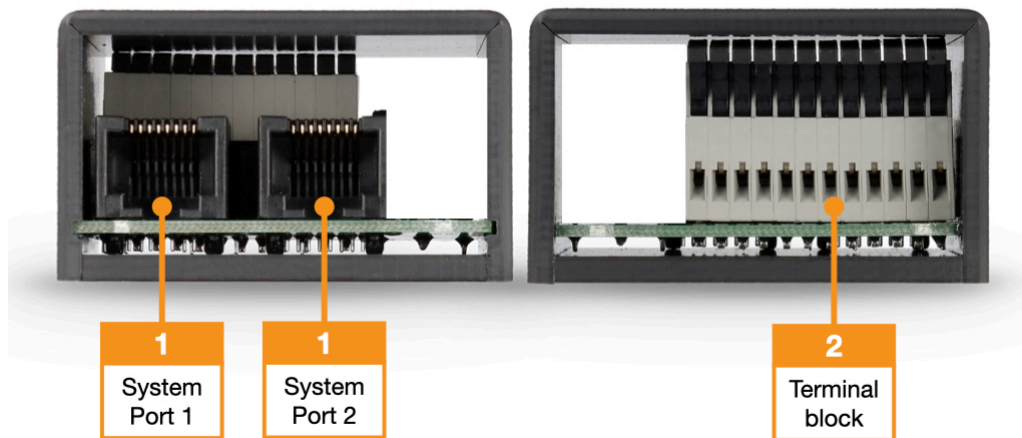
Disposal

Electrical appliances and batteries must be disposed of separately from household waste.

Connections

External devices that are to be switched via the relays of the expansion module must be supplied with voltage **independently!**

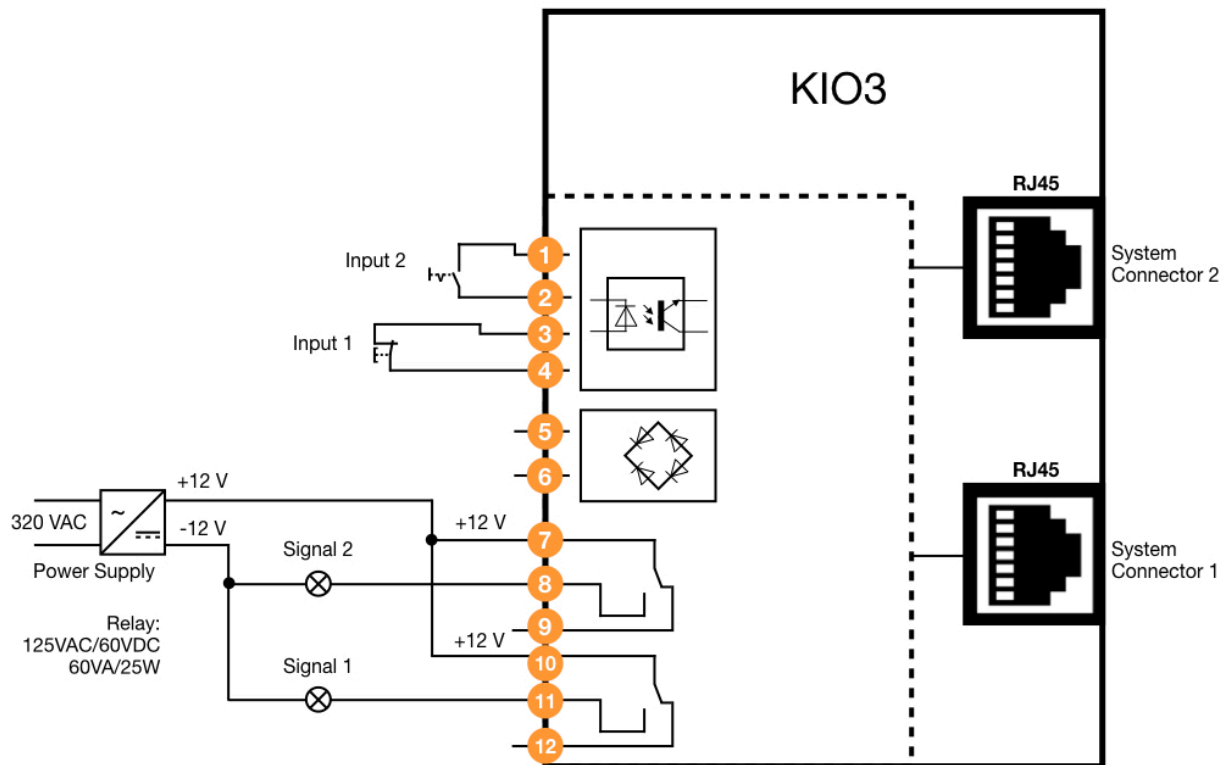
If, for example, a signal light is to be switched in the event of an alarm, the power supply for the signal light must be external. The relay only opens or closes the circuit at the respective event. The relays are designed as changeover contacts.



1. Kentix system port (port 1, RJ45) for connection to the system port of the remote station, e.g. AlarmManager, MultiSensor (Ethernet) or AccessManager (wireless). The second socket (port 2, RJ45) serves as an output socket for forwarding the signals.
2. Connection block (hinged spring terminal) for external wiring, see assignment and example wiring diagrams.

Circuit diagram with external alarms

The digital inputs of all Kentix devices must always be wired potential-free. I.e. no external voltage may be applied. The wiring is passive using normally closed or normally open contacts without voltage potential. The contact logic can be freely set in the software. Applying an external voltage will cause the device to malfunction!



Example circuit for 2x input and 2x output

1. Terminal: Digital input 2 for potential-free wiring with normally open/normally closed contact
2. Terminal: Digital input 2 for potential-free wiring with normally open/normally closed contact
3. Terminal: Digital input 1 for potential-free wiring with normally open/normally closed contact
4. Terminal: Digital input 1 for potential-free wiring with normally open/normally closed contact
5. Terminal: External power supply 24VDC or BUS (A) - **Not required!**
6. Terminal: External power supply 24VDC or BUS (B) - **Not required!**
7. Terminal: Relay output 2 COM (Common max 24VDC/1A), changeover contact
8. Terminal: Relay output 2 NC (Normally Closed)
9. Terminal: Relay output 2 NO (Normally Open)
10. Terminal: Relay output 1 COM (Common max 24VDC/1A), changeover contact
11. Terminal: Relay output 1 NC (Normally Closed)
12. Terminal: Relay output 1 NO (Normally Open)

The extension module (system port) with the ORDER_CODE: KIO3 must not be used in conjunction with the system port (TYPE B).