AKO

CE Trapped person alarm
Quick guide

AKO-55424

355542412   Rev 01   2018

Warnings

⚠ -The alarm and push-buttons should be installed in a place protected from vibrations, water and corrosive gases, where the ambient temperature does not exceed the value indicated in the technical data. The station should be located in a monitored area, where it is guaranteed that people able to alert to the presence of alarms will be present.

-Neither the alarm nor the push-button are suitable for areas classified as potentially explosive.

Wiring

⚡ Always disconnect the power supply to carry out wiring.

The wiring between the push-button and the station must **NEVER** be installed in a conduit alongside power, control or supply cables.
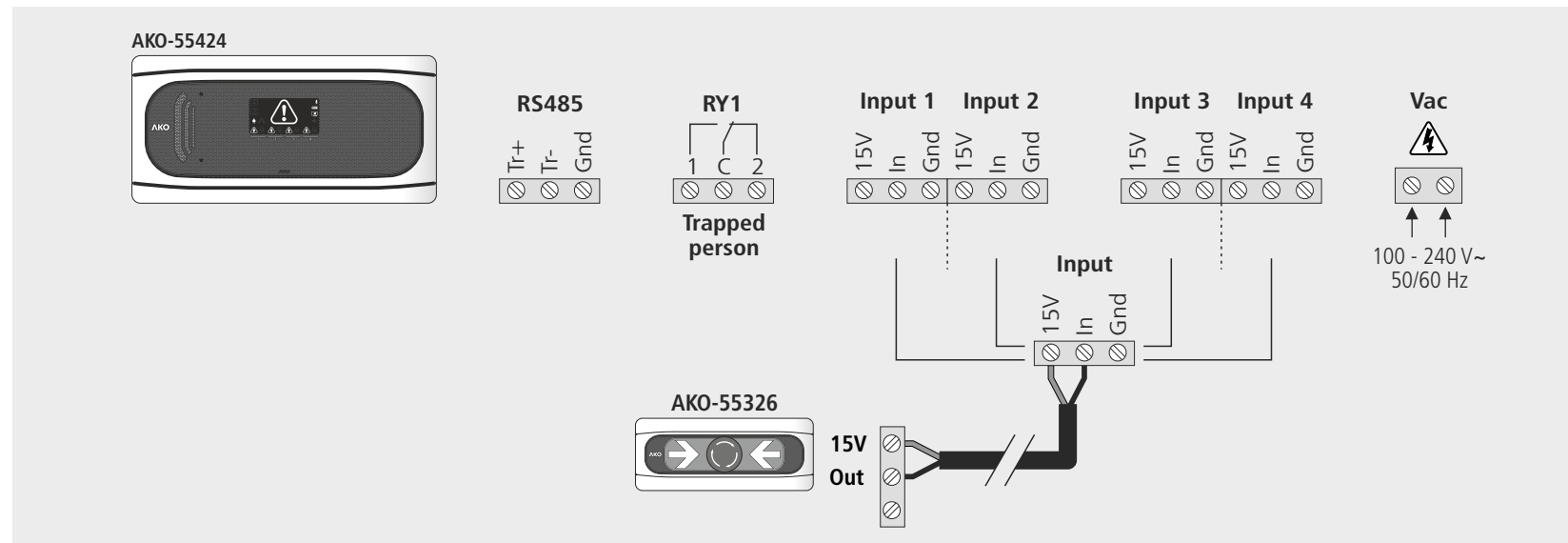
For disconnection, the power supply circuit must be equipped with a switch of at least 2 A, 230 V, located near the device. The power supply cable will be H05VV-F or NYM 1x16/3. The section to be used will depend on current local regulations, but should never be less than 1.5 mm^2.

Cables for wiring the relay contact should have the relevant section for the device to be connected.

The 120 / 230 V~ wiring area must be kept clear of any other external element.

Ensure that you have connected the batteries before starting up the device.

Certain international standards indicate that alarm power supply should originate from a different circuit to that used for the refrigeration and ventilation system. **Be sure to comply with current local regulations.**

AKO-55424

RS485	RY1	Input 1	Input 2	Input 3	Input 4	Vac
Tr+ Tr- Gnd	1 C 2	15V In Gnd	15V In Gnd	15V In Gnd	15V In Gnd	

Trapped person

Input

15V In Gnd

AKO-55326

→ ○ ←

15V Out

100 - 240 V~ 50/60 Hz

Technical specifications

Power supply...100-240 V~ - 50/60 Hz
Maximum input power ....15 W
Accumulators ....Ni-MH 1.6 Ah
Lighting + alarm autonomy...> 10 Hours (*)
No. of inputs 4
Compatibility of inputs...AKO-55326 push-button
Alarm relay...SPDT 8(2)A 250 V~
Working ambient temperature...-5 °C to 50 °C

Storage ambient temperature..-30 °C to 60 °C
Protection degree ....IP 65
Installation category ....II s/ EN 61010-1
Pollution degree ....II s/ EN 61010-1
Double isolation between power supply, secondary circuit and relay output.
Sound power ....90 dB(A) at 1 metre
MODBUS address...Shown on label
Maximum push-button cable distance...300 m
Dimensions ....290 mm (W) x 141 mm (H) x 84.4 mm (D)

*Duration in alarm status at an ambient temperature of between 25 °C.

Configuration

Step 1:
Connect the station power supply. Input indicators illuminate sequentially.

Step 2:
Press the "AUTOCONFIG" push-button for 5 seconds, the alarm will emit 5 short beeps. Configuration is complete.

> ⚠️ For correct input detection, all devices must be correctly connected and in NO ALARM mode, including devices connected via digital inputs.

> ℹ️ Once the alarm has been configured, this function will not be activated again. To activate it again, disconnect the power supply, connect it again and press the "AUTOCONFIG" pushbutton 5 times consecutively within 2 minutes and repeat step 2 within another 2 minutes.

Once configured, the display shows in green the indicator corresponding to the device detected at each input:

👤 Luminous push-button

Operation

No alarms
The input indicators are green.

Alarm activated
The station emits an audible alarm sound, shows the affected input(s) in red, the general alarm indicator illuminates and the visual alarm flashes.

Wiring error / malfunction
The station emits 3 short beeps every two minutes and the input indicator affected flashes red.
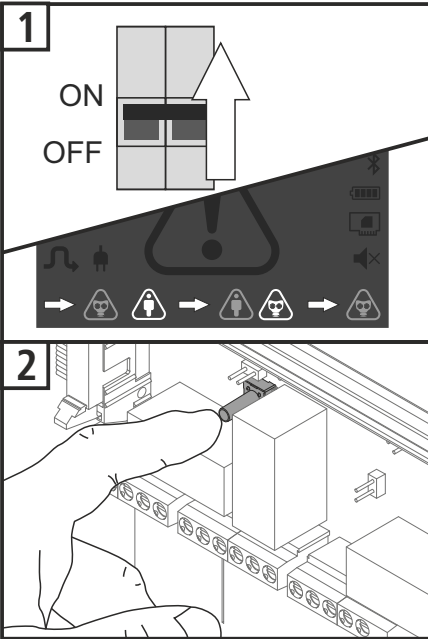
Alarm tones:
- Trapped person alarm: Bi-tonal sound.
- Wiring error / malfunction: 3 short beeps every 2 minutes.

Relays
See accompanying table

> ℹ️ In the event of a power failure, the alarm will continue to work until its batteries run flat.

Maintenance

Clean the device surface with a soft cloth, water and soap.
Do not use abrasive detergents, petrol, alcohol or solvents, as this might damage the sensor.

	Status	Alarm relay
No alarms	**With power supply Battery connected**	NO C NC
	With power supply Battery disconnected	NO C NC
	No power supply / With battery	NO C NC
	No power supply / No battery	NO C NC
	Trapped person alarm activated	NO C NC
	Detector / wiring fault	NO C NC

Description

AKO-55424

AUTO-CONFIGURATION push-button

Alarm display

Audible alarm

Visual alarm

Input 1 · Input 2 · Input 3 · Input 4

Indicators

👤 **Constant green:** Trapped person push-button connected.
Quick-flashing red:: Malfunction / wiring fault in trapped person push-button.
Slow-flashing red: Push-button not detected or disconnected.
Constant red: Trapped person alarm activated.

⚠️ **Constant:** Alarm activated
Flashing: Malfunction / wiring fault in trapped person push-button.

🔌 Power supply present

🔋 **Constant green:** Battery connected
Switched off: Battery disconnected