# BX-O1
## Output module for SecuriLine eXtended

Beginning with edition number 20-2100015-01-01

The BX-O1 has a potential-free relay output for switching loads of up to 2 A and up to 230 V.

It meets the SecuiLine eXtended specification for operation on the addressable loop of the SecuriFire fire detection system.



**Fig. 1  BX-O1**

## Description

The BX-O1 can be connected to the SecuriLine eXtended addressable loop of the SecuriFire fire detection system.

The BX-O1 has a potential-free relay output for switching loads of up to 2 A and up to 230 V.

An "Fail safe position" can be programmed for the output in the event of loop voltage failure.

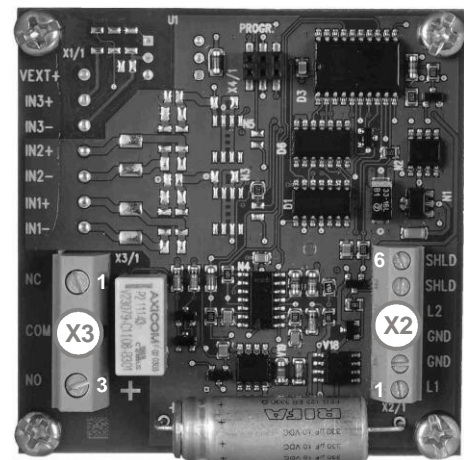The relay outputs are suitable for outputting pulses.

Addressing and parameter assignment for the BX-O1 is performed with PC software via the fire alarm control panel.

The module includes a short-circuit isolator. In the event of wire breakage or a short-circuit, this functionality ensures that the fault is localised and at the same time maintains the full operability of the addressable loop.

### BX-O1 features
- Power supply via the X-LINE
- Addressing and parameter assignment with PC software via X-LINE
- Up to 62 modules can be connected per loop
- 1 output, change-over contact 230V / 2A
- Fail safe position of the relay output if there is a voltage supply failure
- Integrated short circuit isolator
- Robust plastic housing

## Interfaces



**Fig. 2  BX-O1 interfaces**

### SecuriLine eXtended (X2)

| Terminal | Designation | Description |
|---|---|---|
| 1 | L1 | Data A |
| 2 | GND | GND A |
| 3 | GND | GND B |
| 4 | L2 | Data B |
| 5 | SHLD | Screen support point |
| 6 | SHLD | Screen support point |

### Relay output (X3)

| Terminal | Designation | Description |
|---|---|---|
| 1 | NC | Normally closed |
| 2 | COM | Common |
| 3 | NO | Normally open |

# Data Sheet

## Power requirement

When both detectors and modules are operated on an addressable loop, note that the BX-O1 has a higher power consumption than a detector. For security reasons a maximum of 62 BX-O1s are permitted per addressable loop.

A tool is available for calculating the maximum possible loop length and the maximum number of participants.
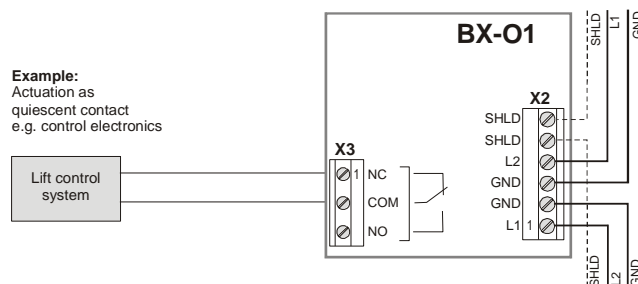
## Connection example

> **Notice**
>
> When laying a 230 V power cable, make sure that it is not conveyed directly over the electronics of the module.

**Connection output module BX-O1**



## Article numbers / spare parts

| Short designation | Swiss art. number | Art. number |
|---|---|---|
| Output module BX-O1 | -- | 20-2100015-01-02 |
| Map case IP66 for BX-O1 | 403.239 917 | FG020234 |
| M20 step nipple | 428.242 578 | MM000181 |

## Technical data

| | | |
|---|---|---|
| Function | Output module | |
| Operating voltage | 12 to 30 | VDC |
| Power consumption (module's power consumption only) | 0.48 | mA |
| Signal transmission | Serial data transmission, 2-line technology | |
| Protection type | 66 with map case | IP |
| Ambient temperature | -20 to +60 | -°C |
| Connection | Screw terminals max. 1.5 | mm$^2$ |
| VdS approval | G212024 | |
| EU certificate of conformity (EN 54-17/18) | 0786-CPD-21144 | |
| Dimensions (H x W x D) | 67 x 67 x 20 | mm |
| Dimensions with map case (H x W x D) | 94 x 94 x 81 | mm |

| **Relay outputs** | **1** | |
|---|---|---|
| Relay | Bistable, one coil | |
| Type of contact | Change-over contact | |
| Switching voltage | 230 | V |
| Switching current | 0.1 – 2000 | mA |
| Breaking capacity | 60 (0.25 A @ 230 V) | W |
| Switching frequency | max. 3.125 | Hz |
| | 200ms to 25s in 100ms steps | |
| Connection | Screw terminals max. 2.5 | mm$^2$ |