

BX-I2

Input module for SecuriLine eXtended

Beginning with edition number 20-2100016-01-01

The BX-I2 contains one primary input for polling potential-free contacts and one opto-isolator input, which can be used for monitoring an external voltage if necessary.

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



Fig. 1 BX-I2

Description

The BX-I2 can be connected to the SecuriLine eXtended addressable loop of the SecuriFire fire detection system.

The BX-I2 contains one primary input for polling potential-free contacts. This can be inverted as well as parameterised with / without line monitoring, further is can be defined as logical element input or detector zone. The module has in addition an opto-isolator to monitor a potential-dependent signal or an external power supply. To install the module is used a plastic housing with IP 66 protection, which can be equipped with various cable inlets as required.

Addressing and parameter assignment for the BX-I2 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-I2 features

- Power supply via the SecuriLine eXtended
- Addressing and parameter assignment with PC software via SecuriLine eXtended
- Up to 62 modules can be connected per loop
- 1 monitored primary input
- 1 opto-isolator input for voltage monitoring
- Integrated short circuit isolator
- · Robust plastic housing

Interfaces

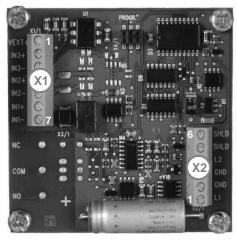


Fig. 2 BX-I2 interfaces

Inputs (X1)

inputs (X1)				
Terminal	Designation	Description		
1	VEXT+	Input voltage monitoring external, potential-free. Pin 1 and 3		
2	IN3+	Input voltage monitoring external, - potential-dependent		
3	IN3-	Input 3-		
4	IN2+	No function		
5	IN2-			
6	IN1+	Monitored primary input		
7	IN1-			



Notice

The input IN3 is designated in SecuriFire Studio as input 2.

SecuriLine eXtended (X2)

Те	rminal	Designation	Description
	6	SHLD	Screen support point
	5	SHLD	Screen support point
	4	L2	Data B
	3	GND	GND B
	2	GND	GND A
	1	L1	Data A

Data Sheet

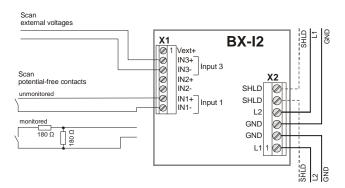
Power requirement

When both detectors and modules are operated on an addressable loop, note that the BX-I2 has a higher power consumption than a detector. For security reasons a maximum of 62 BX-I2 are permitted per addressable loop.

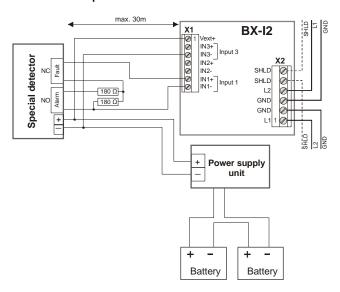
A tool is available for calculating the maximum possible loop length and the maximum number of participants.

Connection examples

Input monitored or unmonitored



Connection of special detectors



Art. number

Swiss art. number

Article numbers / spare parts

Short designation

onor accignation	O W 100 arti Hambor	,	u
Output module	20-21	00016	-01-02
Map case IP66 for BX-I2	403.239 917		20234
M20 step nipple	428.242578		00181
Technical data			
Function	Input mo	odule	
Operating voltage	12	to 30	VDC
Power consumption (module's power consumption only)		0.46	mA
Signal transmission	Serial data transmission, 2-line technology	ology	
Protection type	66 with map	case	ΙP
Ambient temperature	-20 to		-°C
Connection	Screw terminals max	k. 1.5	mm ²
VdS approval	G21	2023	
EU certificate of conformity (EN 54-17/18)	0786-CPD-2	1143	
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
Monitored inputs		1	Pc.
Connection	IN1- and IN1+, potential-free con		
Polling current	inti ana inti , poterniar nee cen	10	mA
Polling voltage		3-6	V
Termination resistance		180	Ω
Alarm resistance		180	Ω
Line resistance	ma	x. 30	Ω
Polling impulse		165	μs
Polling cycle		100	ms
Input filter		10	μs
Periodic duration		> 8	S
(switching states which last longer than 500 ms and whos	e repetition time is greater than 8 s are reco	rded)	
Line length	· -	ax. 30	m
Connection	Screw terminals max	c. 1.5	mm^2
Input voltage monitoring, potential-dependent		1	Pc.
Connection	IN3- and IN3+, potential-dependent sign	gnals	
Input voltage range	·	to 30	V
Input current		ax. 6	mA
Input resistance		1,900	Ω
Galvanic separation	By opto-iso		
Line length	max. ´		m
Connection	Screw terminals max	κ. 1.5	mm^2
Input voltage monitoring, potential-free		1	Pc.
Connection	IN3- and VEXT, potential-free sign	anals	
Input voltage range		to 30	V
Input ourrant		0.4	^

Input current

Line length

Connection

Input resistance

Galvanic separation

@10 V

@24 V

Screw terminals max. 1.5

By opto-isolator

Max. 1,000

0,4

10

mΑ

mΑ

kΩ

m mm²

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