AlEx

Alarm Extender
Operation Manual
Version 1.2

KEYTRONIX 03/08
Part Nr.:0711-1001 GS1 CE
Type   ALEX
Voltage 48 - 230V ~50Hz / DC
Current 180mA Fuse:T315mA
Mat.Nr.: 2-000-021-420
Ser.Nr.: 2008000000

PWR
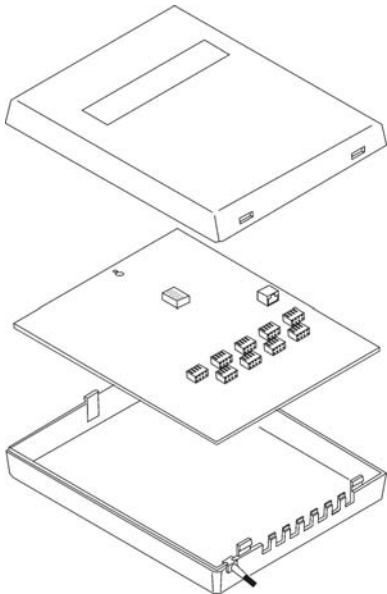
SYNC

AlEx

Functionality

The AlarmExtender AlEx is a remote effector system with the ability to transmit local registered alarm signals via a G.703 leased line with the capability of 64kb/s to the remote device.
The alarm signals will be converted to relay output states on the remote side.
The status of the 8 galvanically isolated inputs will be 1:1 imaged as an output on the remote side.
The output is controlled by the input of the remote side.
The outputs are bistabil, this means e.g.: that the actual state is held during a transmission failure
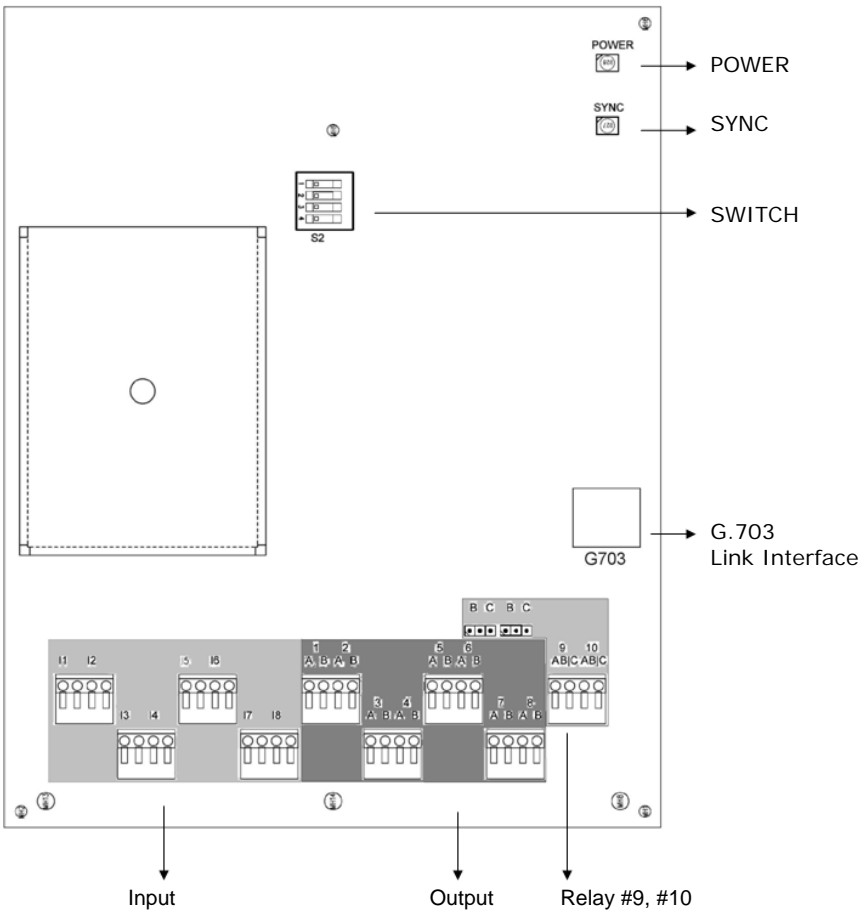
Two monostabil relays can be used for integrated device and trail surveillance.
Two illuminating diodes signalizing „Power On" and „SYNC".
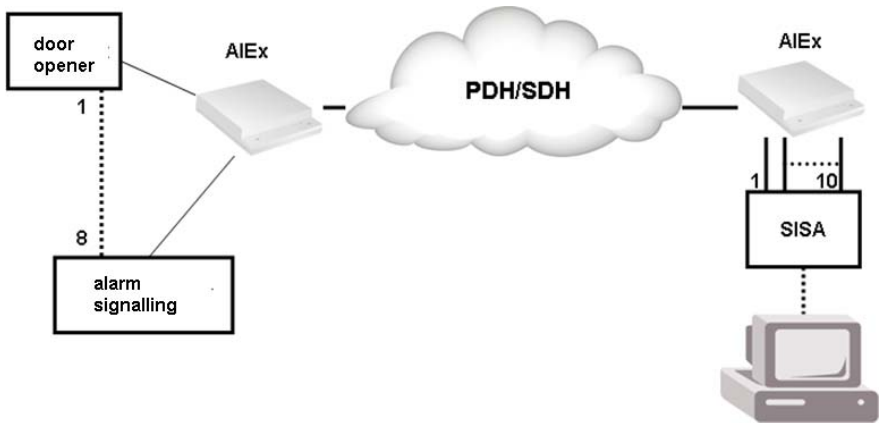
mechanical construction   **position of illuminating diodes, jumpers and connectors**
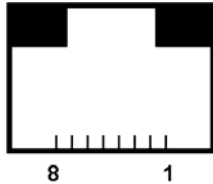
statusindication

Power: lights on when the device is ready for use
Sync: lights on when synchronized with the remote unit

interfaces

all the device interfaces are dimensioned for a max. of 3m connected lines.

G.703 Interface

PIN 1,2 ....RD
PIN 4,5.......................TD

ALARMRELAIS

Relais #9:   remote alarm, moves to high if there is no sync anymore
Relais #10:   local alarm, moves to high if the device is ready for use

With the jumper you can decide if you want to you the working (B) or the open circuit contact (C)

DIP-Switch

#1	Selection A / B
#2	ON = SW 1 disable
#3	ON = clock master ; OFF= clock slave
#4	ON = alarm relay disable; OFF= alarm relay enable

SW #1   selects different sync-pattern for both devices, thereby in case of an loopback the outputs of the relays are not affected.

SW #2 = ON   the sync pattern (SW #1 has no function)is same, in case of a loopback the output will be switched according to the local input.

SW 3 = ON   must be used if there is no transmission network between the two devices.
SW 4 = ON   switch off (in testcases) of the alarm relays.

Default usecase::   SW #1   ON on location A, OFF on location B
                      SW #2, #3, #4   OFF

Specification
Interface G.703:

Bandwidth:	64kbit/s codirectional
Impedance:	120 Ohm
Level („mark"):	1 V (peek)
Range:	ca. 6dB
Connector:	RJ-45

Housing:
plastic

colour:	light gray, RAL7035
protection class:	IP20
dimensions (W x H x D):	170 x 210 x 53 mm
weight:	0,6 kg
wall mountable:	with assembling - cross

power supply:
48 -15% …. 230 +5% AC/DC
Protection class II

Power input: max. 180mA

Connection technology:
WAGO-connectors for I/O and Alarm - contacts
RJ-45 connector for transmission link

Environmental conditions :

Operation**:**	-20 °C to + 70 °C
Storage constraints:	-20 °C to + 70 °C
relative humidity:	max. 80%, not condensing