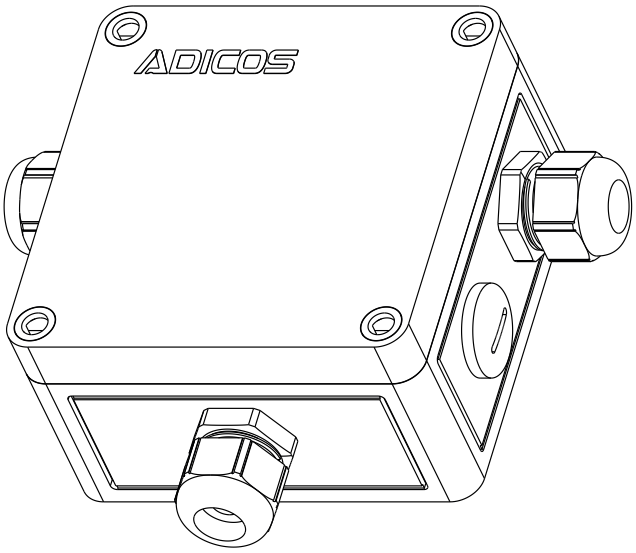
AAB Junction Box

Industrial-suital junction box with power-indicator and overload protection for connection of ADICOS special fire detectors



Characteristics

- *Compact design*
- *Robust ABS housing*
- *Easy mounting*
- *High resistance to moisture and dust*
- *Control lamp for supply voltage*
- *Overload protection by integrated fuse*
- *Low wiring effort*
- *Connection of supply voltage, M-Bus, external fire alarm LOOP as well as alarm and fault contact*
- *Power supply terminal for external power supply unit*
- *Up to five cable glands*

Applications

Standard junction box for ADICOS special fire detectors in industrial plants, e.g. for:

- *Conveyor systems for coal, biomass, wood, paper, plastic, substitute fuel, etc.*
- *Recycling plants*
- *Silos and mills*
- *Historic Buildings*
- *For connecting detector lines to third-party fire alarm systems*

The Advanced Discovery System (ADICOS®) is used for early detection of fires in industrial environments. It is comprised of various, separate detector units. By parameterizing and arranging the detectors appropriately, the system fulfills a predefined detection goal. The ADICOS system ensures reliable early detection of embers and smoldering fires even in adverse environments.

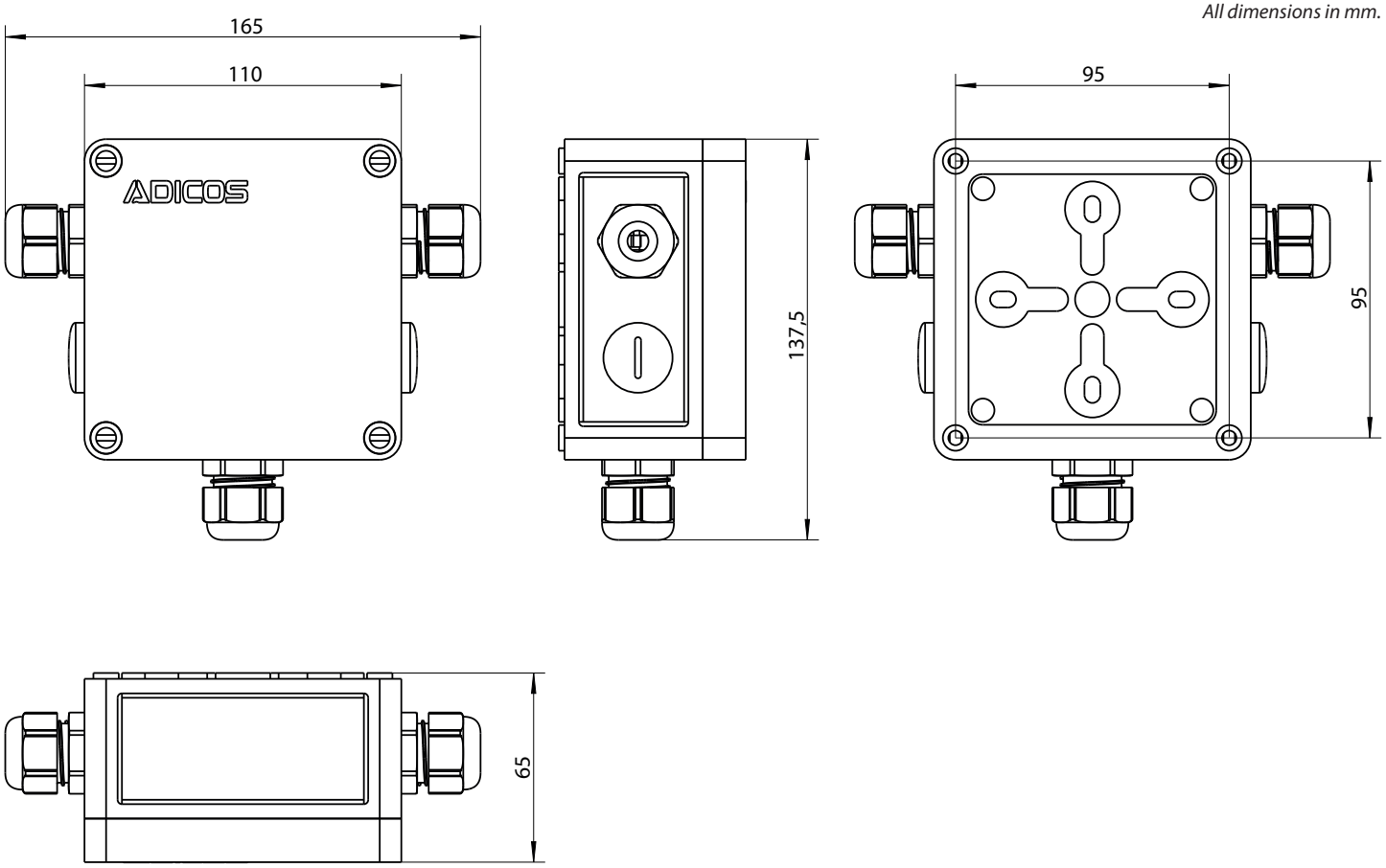
ADICOS AAB are our standard junction boxes and serve as wiring aids for ADICOS detectors. They are surface-mounted junction boxes with an internally connected printed circuit board and enable the electrical connection of ADICOS detectors of all models to the special fire alarm system in a very simple way. Thanks to their robust mechanical design, the branch boxes are protected against the ingress of dust and moisture and can be installed and used in harsh industrial environments in the vicinity of the ADICOS detectors.

The ergonomic design of the terminal rows and the pre-printed designations ensure quick installation and error-free wiring. In addition to the loop-through of fire alarm LOOP, limit value signal lines for fault and alarm, voltage supply and M-Bus, there is also the possibility of coupling in an external power supply unit. In addition, the ADICOS AAB is equipped with a control lamp for supply voltage and a fuse for current limitation. Three cable glands are pre-assembled as standard, two additional glands are included.

AAB - Specifications

Mechanical dimensions

All dimensions in mm.



Mechanical characteristics	
Enclosure	*ABS (corrosion-resistant)*
Weight	*0.38 kg*
Dimensions	*110 mm x 110 mm x 65 mm (without cable gland)*
Protection class	*IP65*

Environmental conditions	
Relative humidity	*≤ 95 % (non-condensing)*
Temperature range	*–10 ... +50 °C*

Electrical characteristics	
Voltage range	*20 ... 40 V*
Max. power dissipation (LED)	*330 mW*
Internal fusing	*4 A sb*
Torque for cable glands	*6.0 Nm*
Cable diameter	*6.5 ... 12 mm*
Max. wire cross section	*2.5 mm²*

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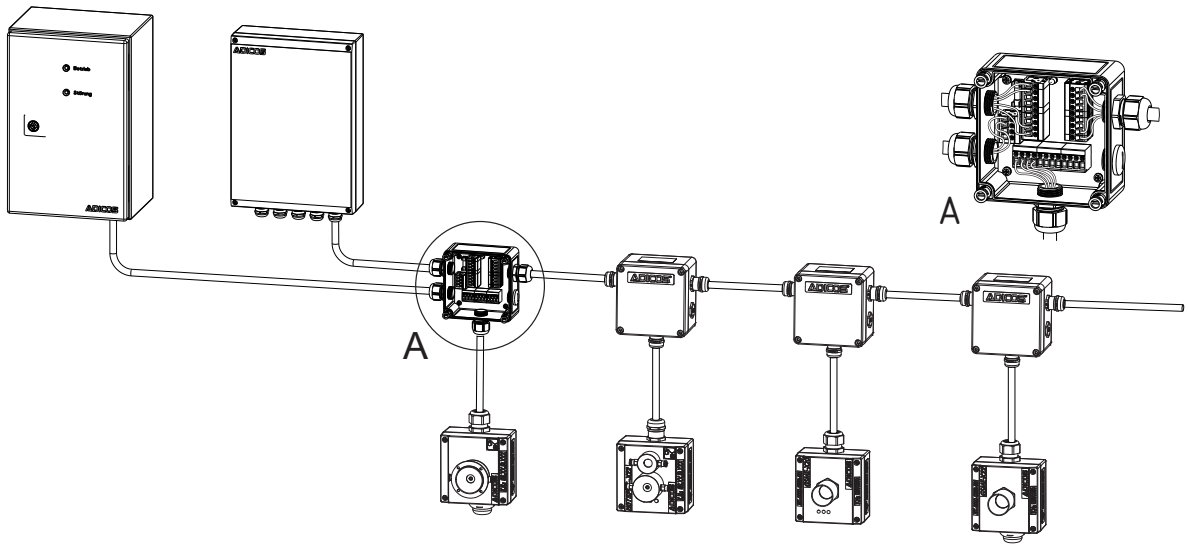
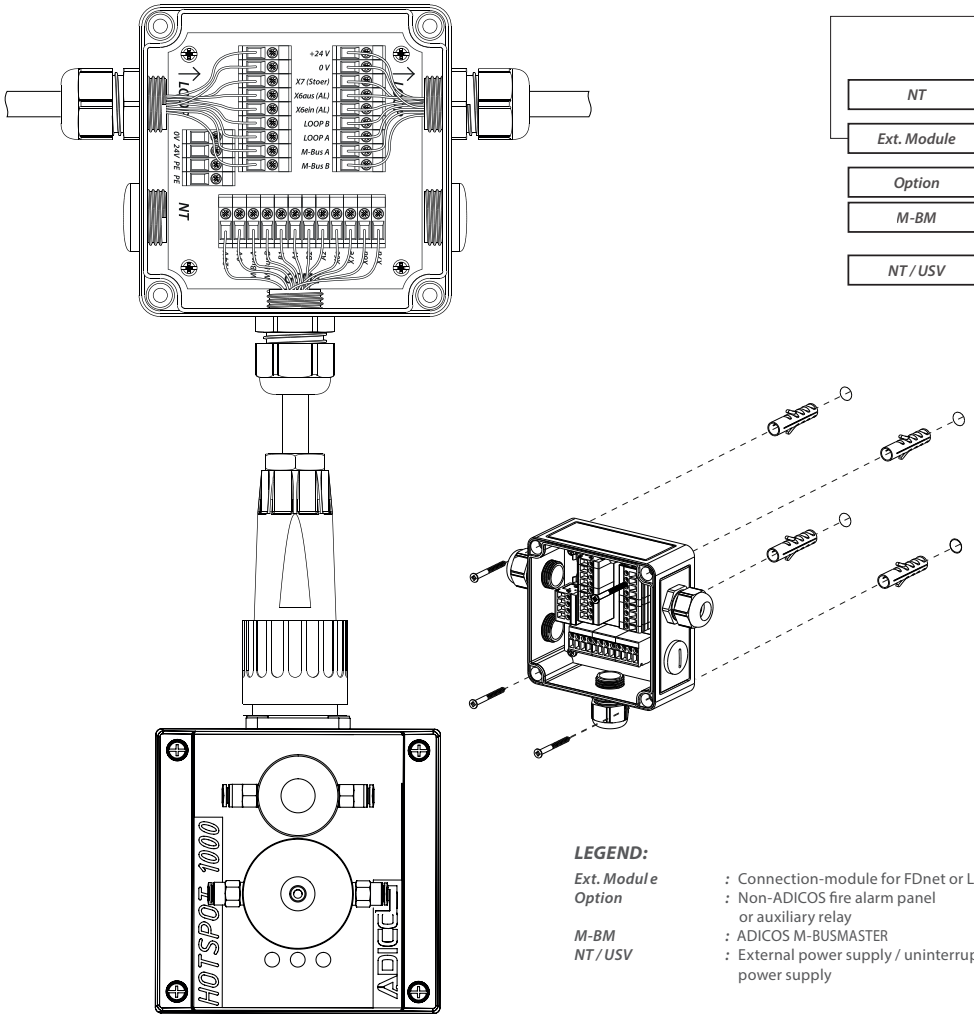
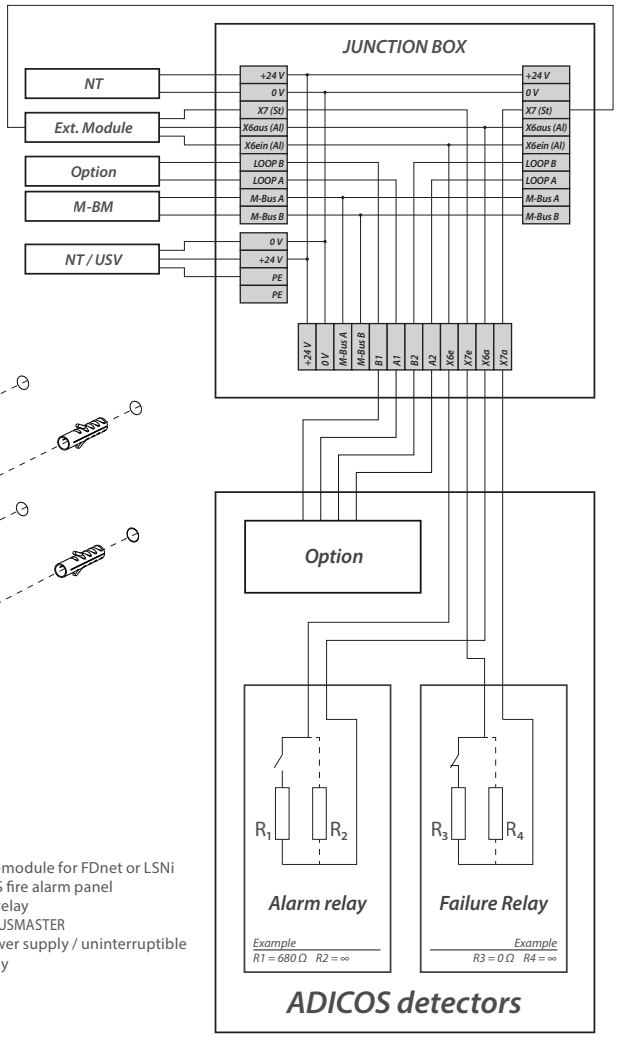
AAB - Application

ADICOS topology concept



AAB installation





LEGEND:

Ext. Module	:	Connection-module for FDnet or LSNi
Option	:	Non-ADICOS fire alarm panel or auxiliary relay
M-BM	:	ADICOS M-BUSMASTER
NT / USV	:	External power supply / uninterruptible power supply

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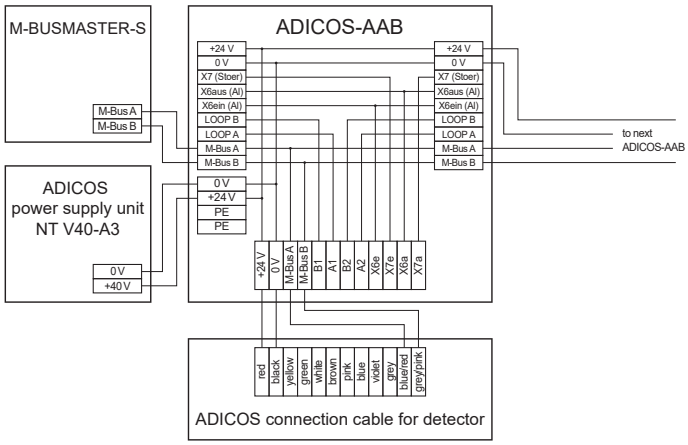
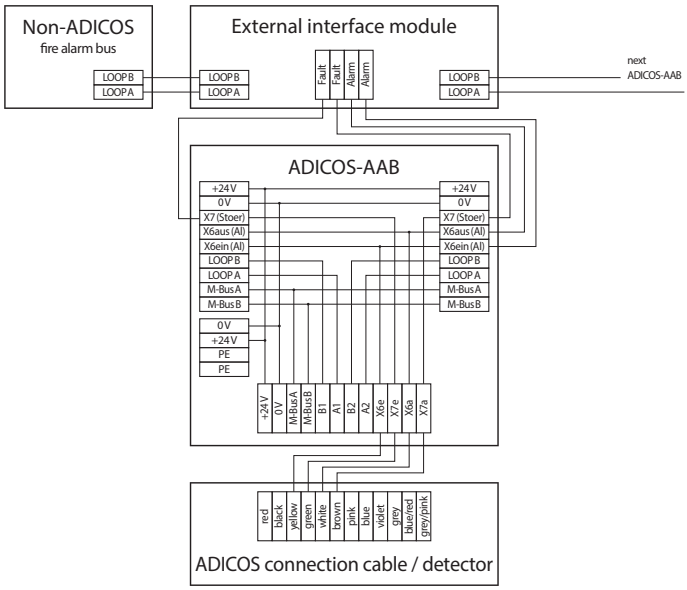
AAB - Application

AAB wiring options

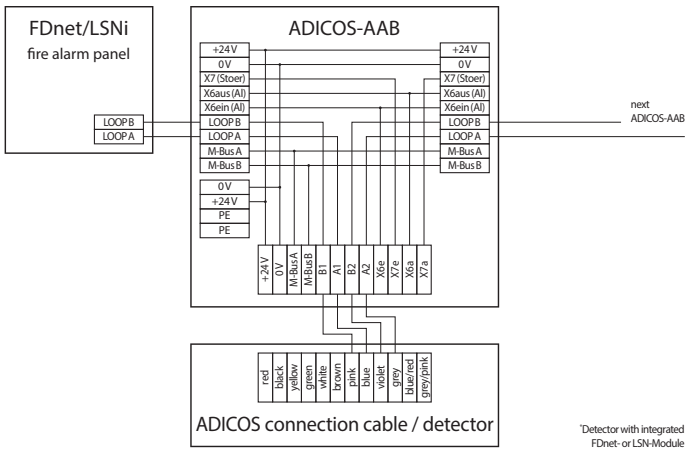
M-BM and external power supply



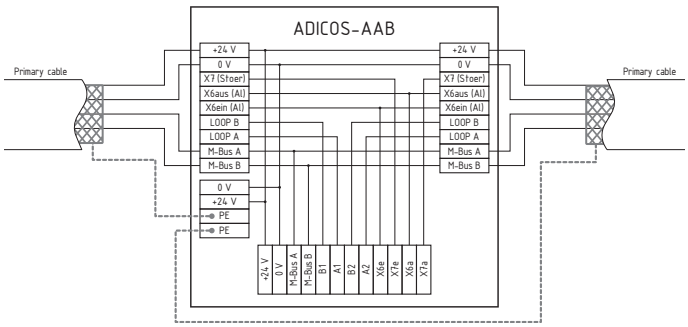
Other fire detector bus systems



Fire detector Loop with FDnet/LSNi



Shielding for primary cable



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