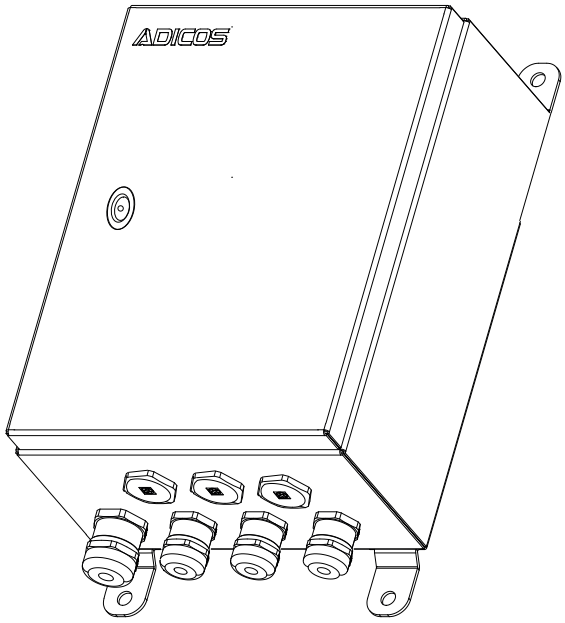
AAB-XL

Industrial junction box for wiring ADICOS special fire detectors under particularly difficult conditions in an extra large version



Properties

- **High quality distribution box made of stainless steel**
- **Extra large and spacious design**
- **Simple assembly thanks to offset fastening straps**
- **Maximum moisture and dust resistance (IP66)**
- **Optimum wiring conditions thanks to large connection space, wiring channel inside the housing, high-quality and internally pre-wired double-level terminals**
- **Connection of supply voltage, M-Bus, external fire alarm LOOP as well as alarm and fault contact**
- **Power supply terminals for external power supply unit**
- **Up to seven cable glands (3 x M25 and 1 x M35 pre-mounted, further 3 x M25 encluded)**

Applications

- **Detector junction box for difficult conditions with up to seven cable glands.**
- **E.g. for use in the energy and mining industry**
- **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.

ADICOS AAB-XL serve as wiring aids for ADICOS detectors. They are are large, high-quality surface-mounted junction boxes with internally pre-connected double-pole terminals, which 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.

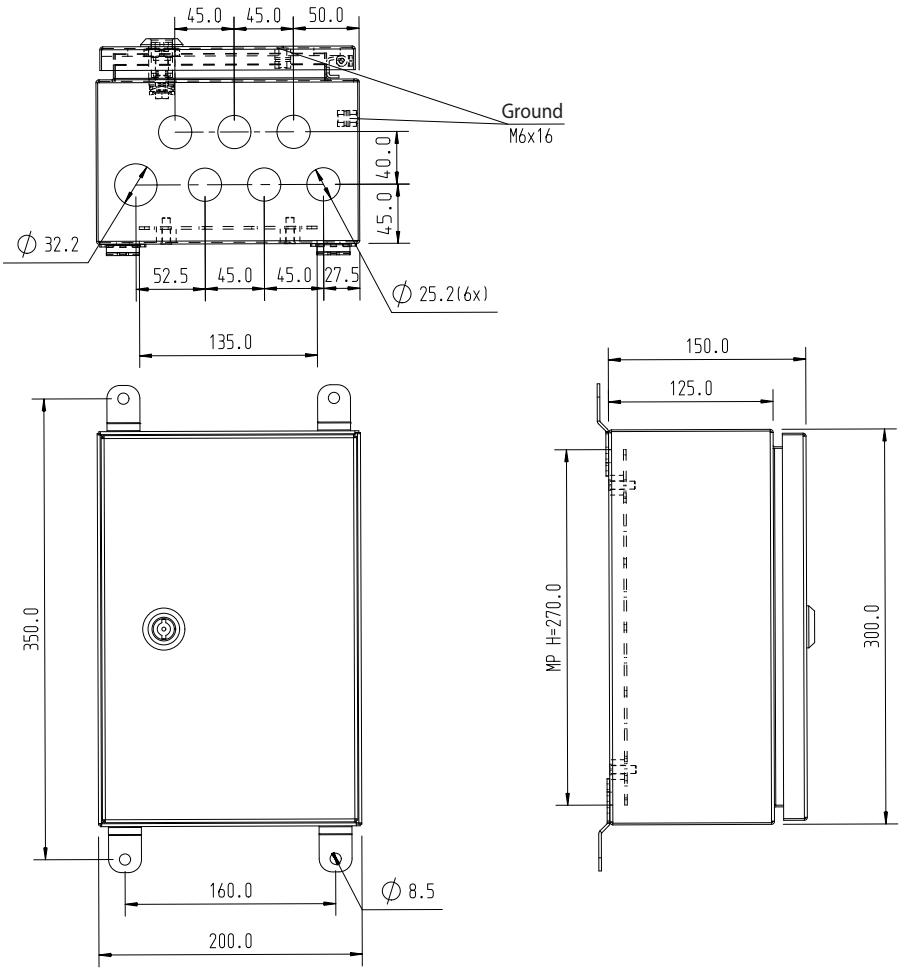
For the simplest wiring, the ADICOS AAB-XL has a generous terminal compartment with wiring channel. In addition to looping through fire alarm LOOP, limit value signal lines for fault and alarm, voltage supply and M-Bus, there is also the option of coupling in an external power supply unit.

Three M25 cable glands and three M25 and one M35 brass blind glands are pre-assembled as standard; three additional M25 glands are included and can be screwed in if required.

AAB-XL - Specifications

Mechanical Dimensions

All dimensions in mm



Mechanical properties	
Enclosure	*Stainless steel junction box*
Dimensions	*200 x 300 x 150 mm (without cable fittings and mounting brackets)*
Weight	*4.5 kg (4,75 kg accessories incl.)*
Degree of protection	*IP 66*

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

Electrical properties	
Voltage range	DC *20 ... 40 V*
Tightening torque for cable gland	*12 Nm*
Cable ø M25 fitting	*9 ... 17 mm*
Cable ø M35 fitting	*11 ... 21 mm*
Maximum cross-section	*4 mm²*
Nominal cross-section	*2.5 mm²*
Stripping length	*8 ... 10 mm*
Mounting environment	*vibration-free*

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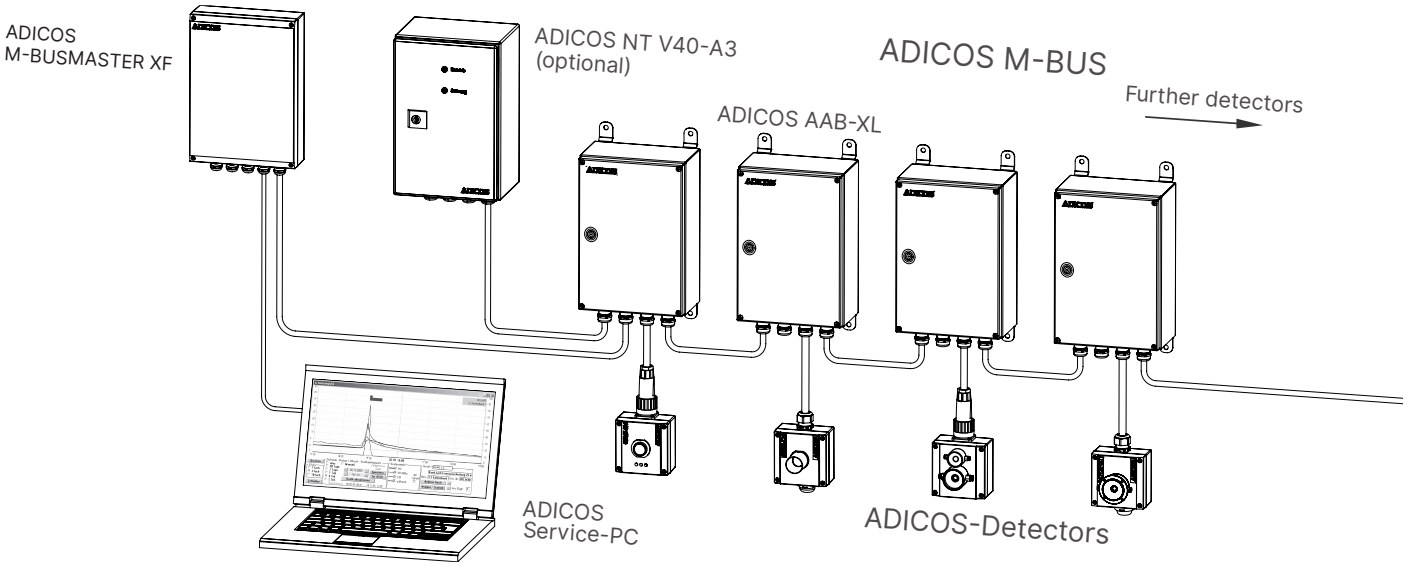
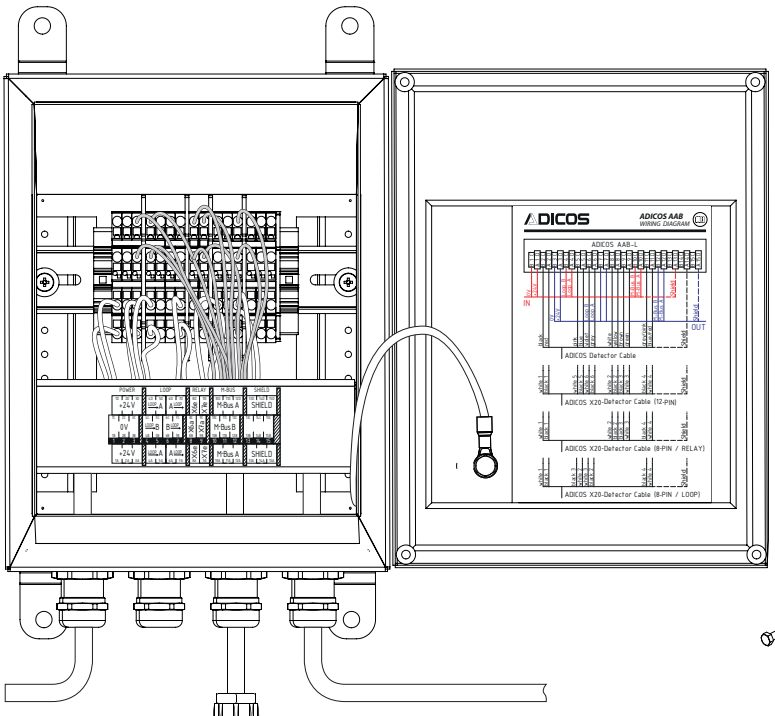
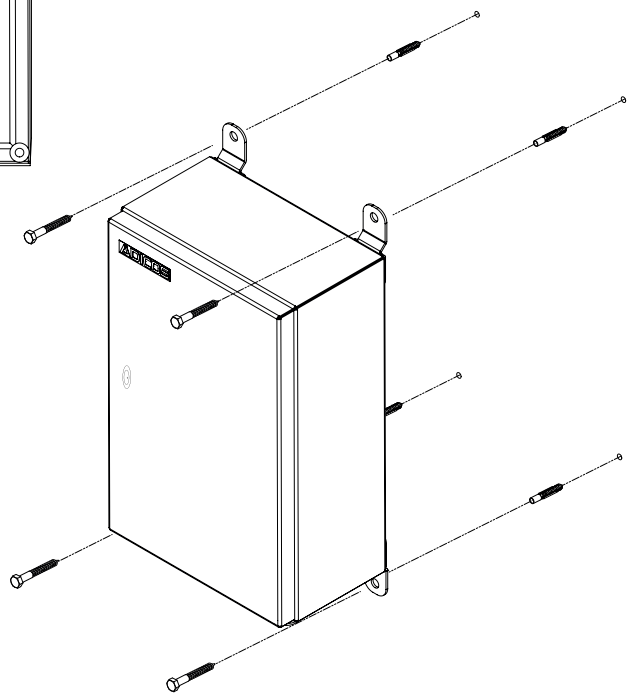
AAB-XL – Application

ADICOS wiring principle



AAB-XL installation





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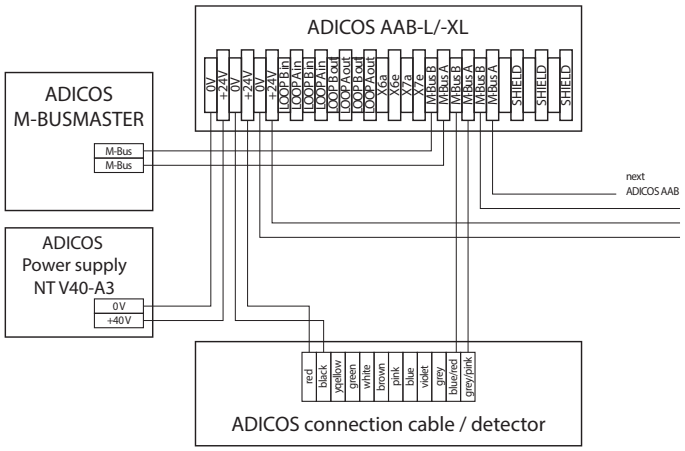
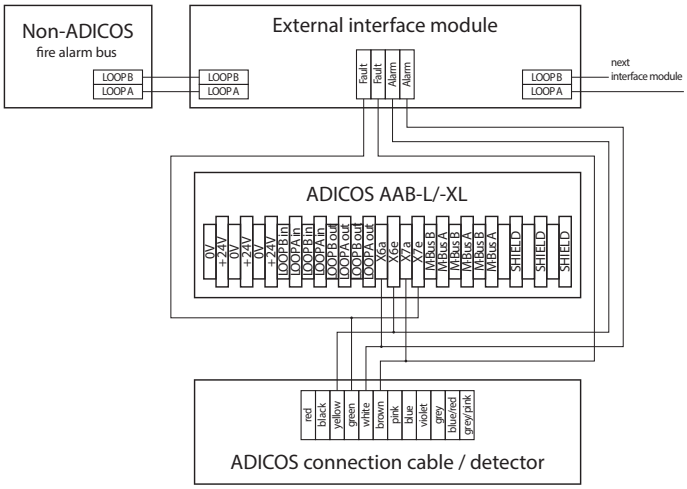
AAB-XL – Application

AAB-XL wiring diagram

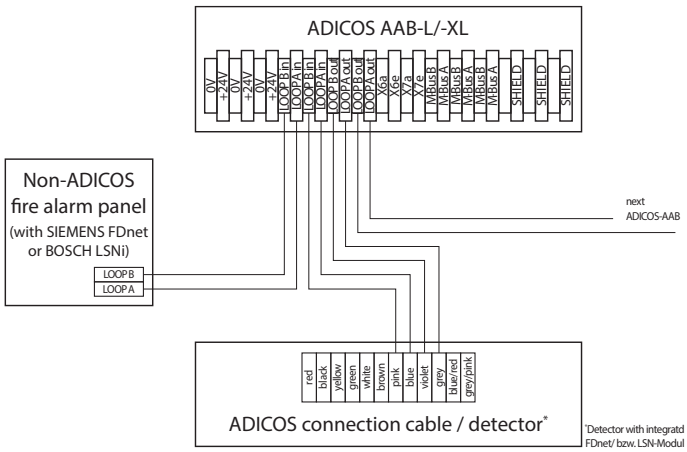
ADICOS M-BM and external power supply



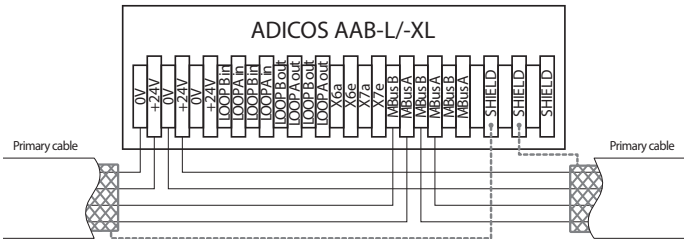
Other fire detector bus systems



Fire detector Loop with FDnet/LSNi



Primary cable shield



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