

Junction box for ATEX zone 22 and 2

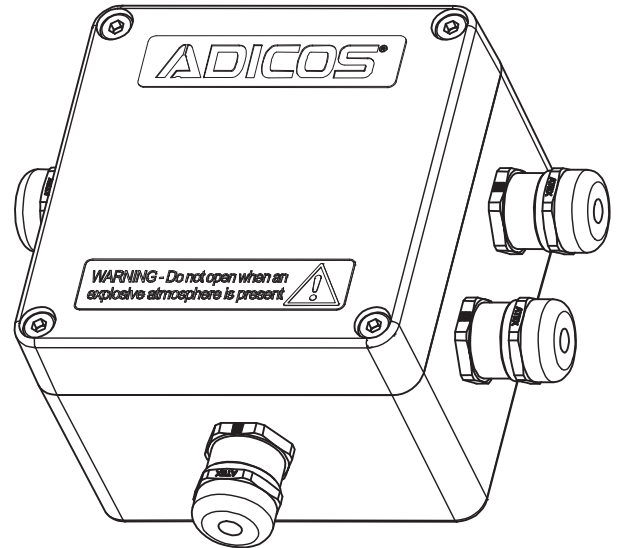
Industrial-suited junction box for connection of ADICOS special fire detectors.

Features

- Compact design
- Robust polyester enclosure
- Easy mounting
- High resistance to moisture and dust
- Low wiring effort due to push-in spring terminals
- Connection of supply voltage, M-Bus, external fire alarm LOOP as well as alarm and fault contact
- Up to five cable glands
- Suitable up to ATEX zone 22 and 2

Application fields

- Enclosed belt conveyors for materials like coal, biomass, wood, paper, plastics, substitute fuel etc.
- Storage facilities and bunkers for spontaneously inflammable materials
- Drives, shredders, dryers, coolers, chutes and hoppers
- Silos and mills
- Chemical industry
- Also for connecting detector lines to third-party fire alarm systems

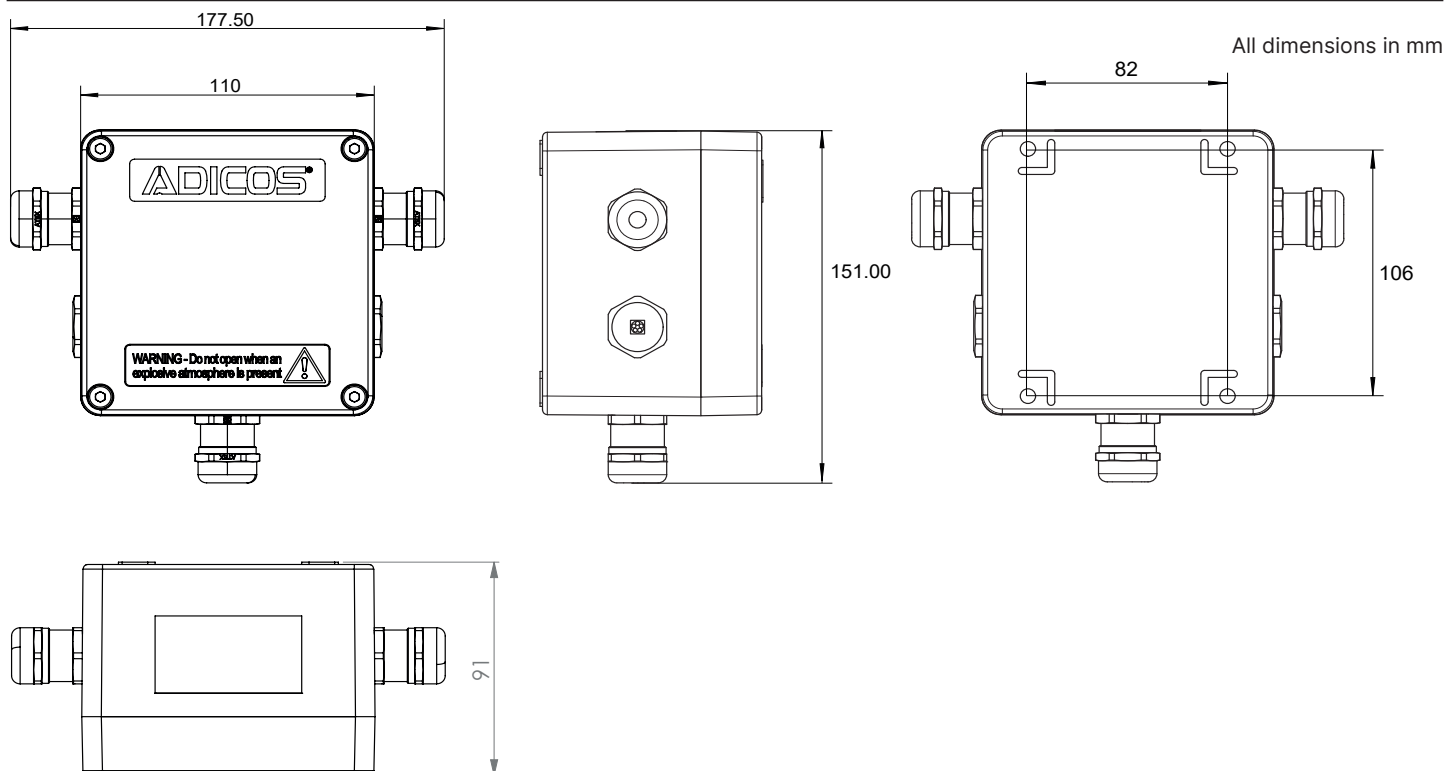


The Advanced Discovery System (ADICOS®) is used for early detection of fires in industrial environments. It is comprised of various, separate detector units. By parameterizing and arranging the detectors appropriately, the system fulfills a predefined detection goal. The ADICOS system ensures reliable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

ADICOS-AAB-X22/X2 junction boxes serve as wiring aids for special fire detectors within potentially explosive areas of ATEX zone 22 and 2. The surface-mounted connection boxes are equipped with an internally wired printed circuit board, which enables the electrical connection of ADICOS detectors of all models with the special fire alarm system in a simple manner. Thanks to their robust mechanical design, they 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.

AAB-X22/X2 - Specifications

Mechanical dimensions



General

Enclosure	Polyester
Weight	0.95 kg
Dimensions	177.5 mm x 151 mm x 91 mm
Degree of protection	IP 66
Torque of cover screws	2.5 Nm

Explosion protection data

Explosion protection	Ex II 3G Ex ec nA IIC T4 Gc Ex II 3D Ex tc IIIC T85°C Dc
Device group	II, Category 3G/3D
Maximal surface temperature	Gruppe II: T4 ; Gruppe III: T85°C

Environmental conditions

Relative humidity	≤ 95 % relative humidity (non-condensing)
Permissible environment temperature	-30 ... +65 °C

Electrical characteristics

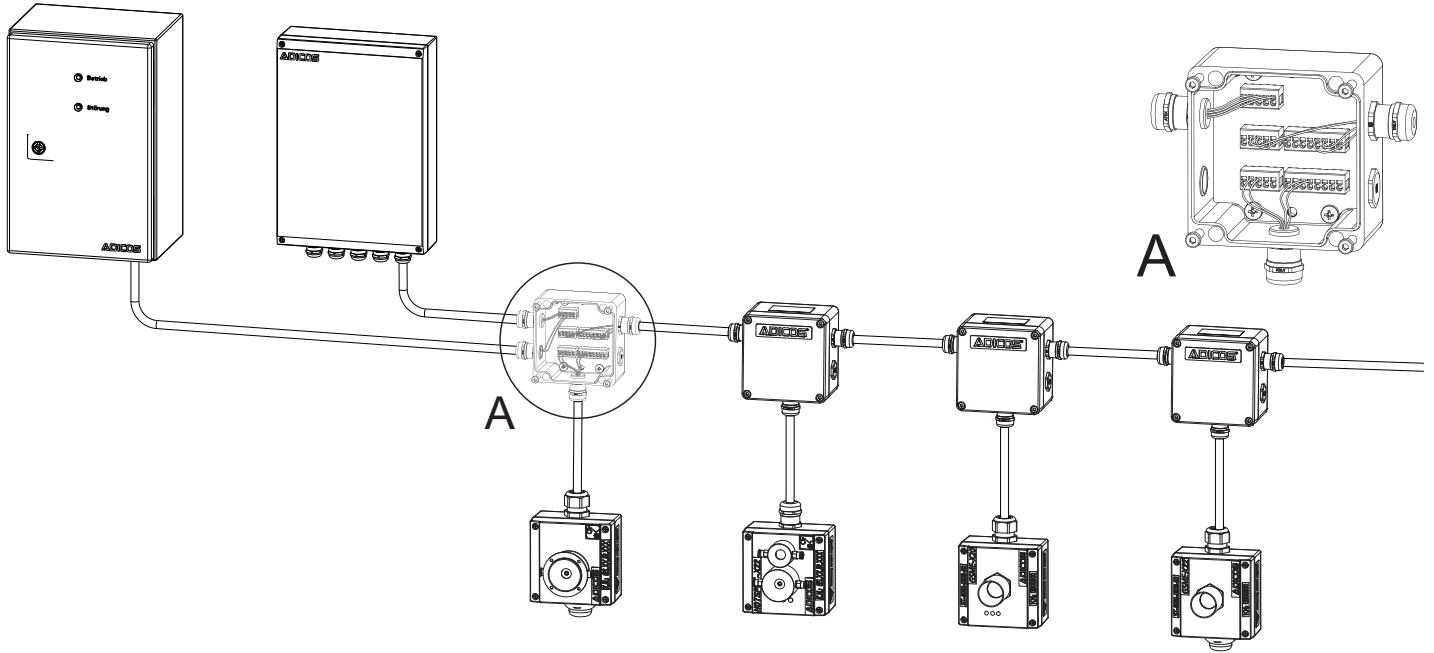
Rated voltage	DC max. 60 V
Max. current	4.9 A
Max. cable cross-section	4 mm ²

Cable gland and blind gland

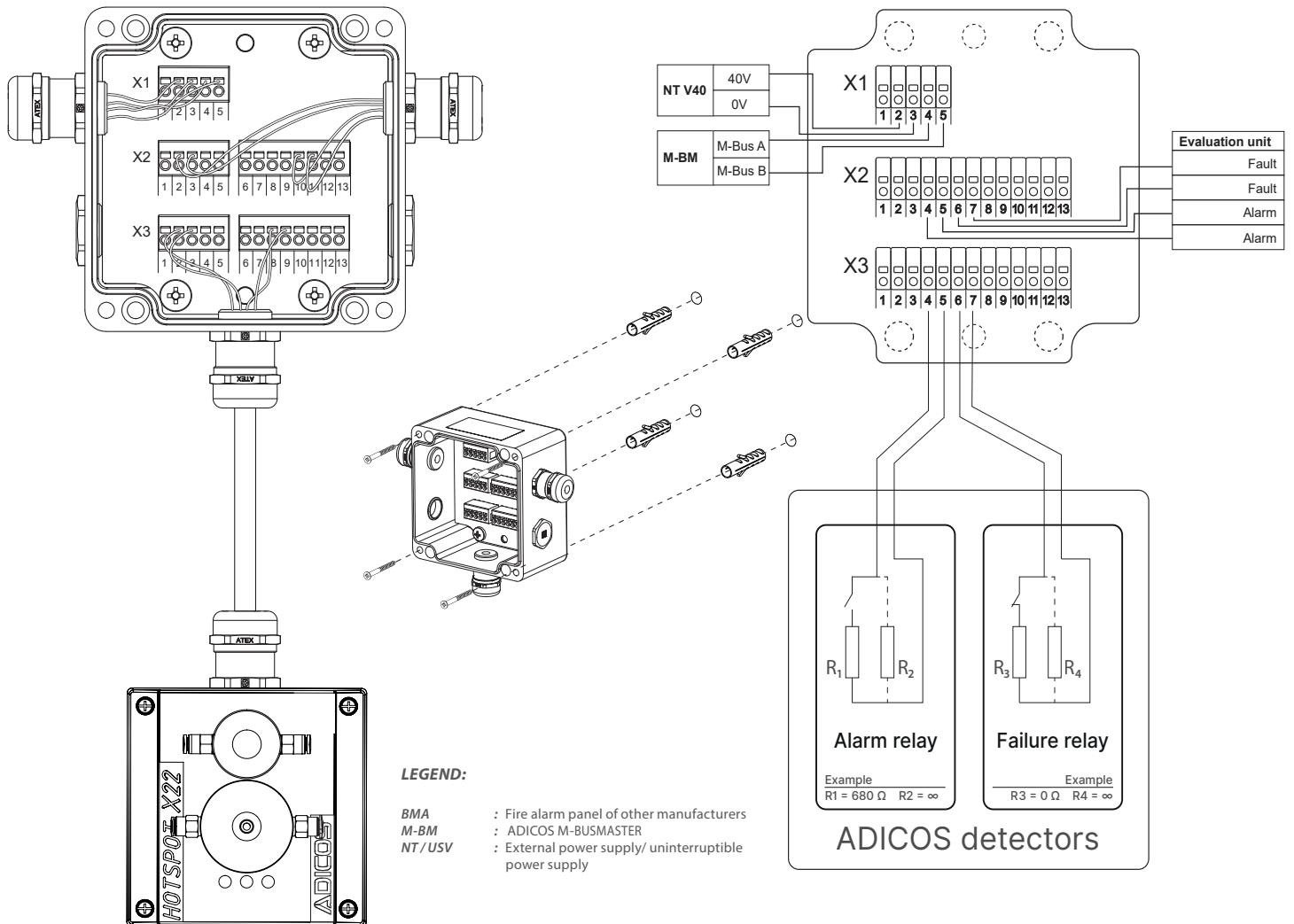
Thread	5 x M20 x 1.5 - 6H (sealing by O-ring)
Clamping range	7 ... 13 mm (without reinforcement or spinning)
Torque	12 Nm

AAB-X22/X2 - Application

ADICOS topology concept



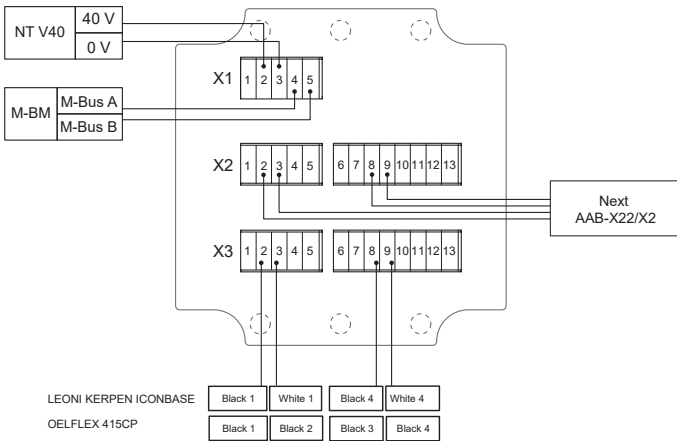
AAB-X22/X2 Installation



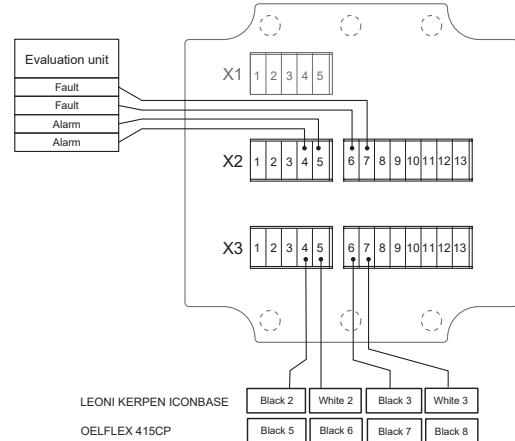
AAB-X22/X2 - Application

AAB-X22/X2 Wiring variants

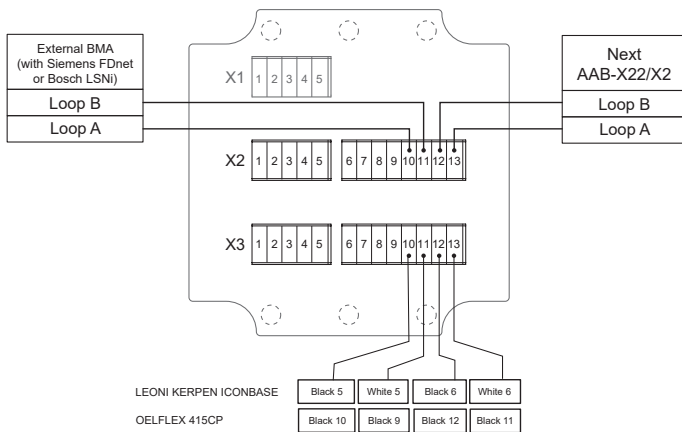
M-Bus and power supply NT V40-A3



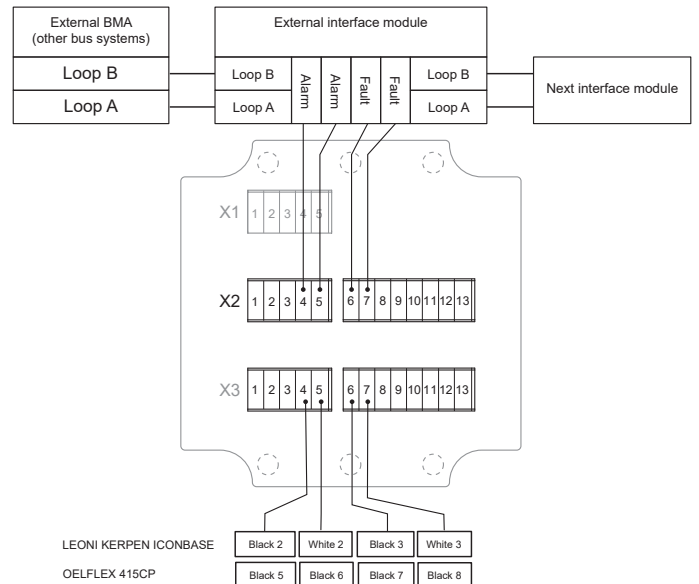
Fault and alarm „direct“



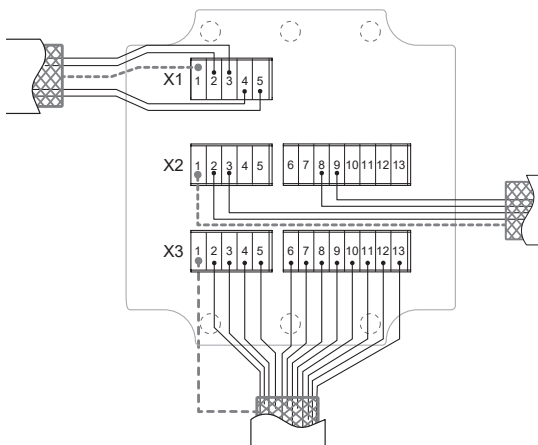
Fire detector LOOP with FDnet/LSNi



Other fire detector bus systems



Shielding primary cables



Torque cable glands

