



G010402

Intrinsically Safe Isolator

Salwico ISOLATOR-A

Part no. N1790

System: CS3000*, CS4000, NSAC-1, Salwico Cargo, Salwico Cruise, Salwico LNG, Salwico Offshore, Salwico Ro/Pax, Salwico Workboat, Salwico Yacht, Salwico Navy, OEM Extinguish

General Description

ISOLATOR-A is an IS isolator intended for use together with Salwico intrinsically safe addressable detectors and manual call points. It contains an IS-isolator and a LISA-2 connection board.

ISOLATOR-A is located in a non-hazardous area (safe area) and forming the interface to IS detectors and other IS line units.

To each addressable detector loop a maximum of five ISOLATOR-A units can be connected, each of them accommodating up to 20 IS line units.

ISOLATOR-A does not need a separate power supply or earth connection. It is powered directly from the fire alarm panel via the loop cable, which means that no extra cables are needed.

The cable glands shall be mounted acc. to the dimension drawing in section [Dimensions \(mm\)](#). This will guarantee the minimum required distance (50mm) between the intrinsic safe and the non intrinsic safe conductors. The conductors shall be as short as possible between the entrance and the terminals and shall not cross from one side to another.

The connection board LISA-2 simplifies installation and replacement by offering a connection solution without breaking the fire alarm loop.

The resistor mounted on the ISOLATOR output should not be removed.

Spares

Part No.	Type
5200292-00A	KFD0-CS-Ex1.54 -Y3
5200094-00A	LISA-2 connection board

*SPK-2 for NOSE based detectors

Safety Data for Isolator

Table 1. Certificate No BAS00ATEX7087

Max output voltage (U_o)	28 VDC
Max output current (I_o)	93 mA
Max output power (P_o)	653 mW
Max internal capacitance (C_i)	5.64 nF

Group	Capacitance in μ F	Inductance in mH	L/R Ratio in μ H/ohm
IIC	0.077	4.3	55

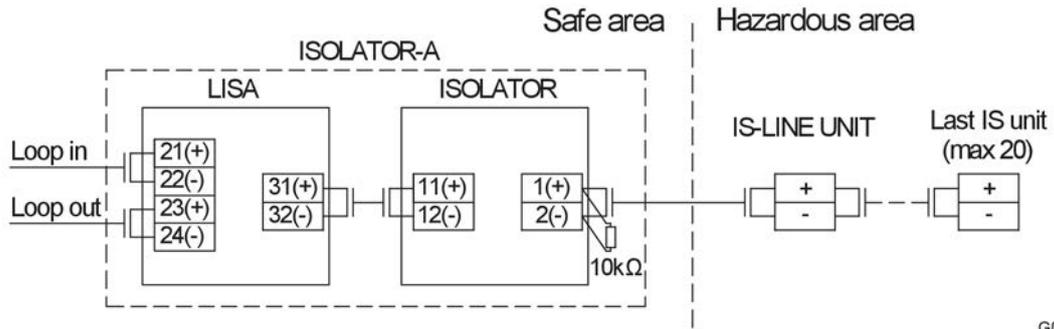
Data, ISOLATOR-A

Working voltage	27-38 VDC
Nominal working voltage	35 VDC
Max output V	25 VDC
Isolator approval	[Ex ia]
Cable terminals	2.5 mm ²
Ambient temperature	-20 °C to +60 °C
Ambient humidity	0-100% RH (when mounted in box)
Weight	~100 g (isolator)
ELR	10 k Ω (for load only)

Data, enclosure

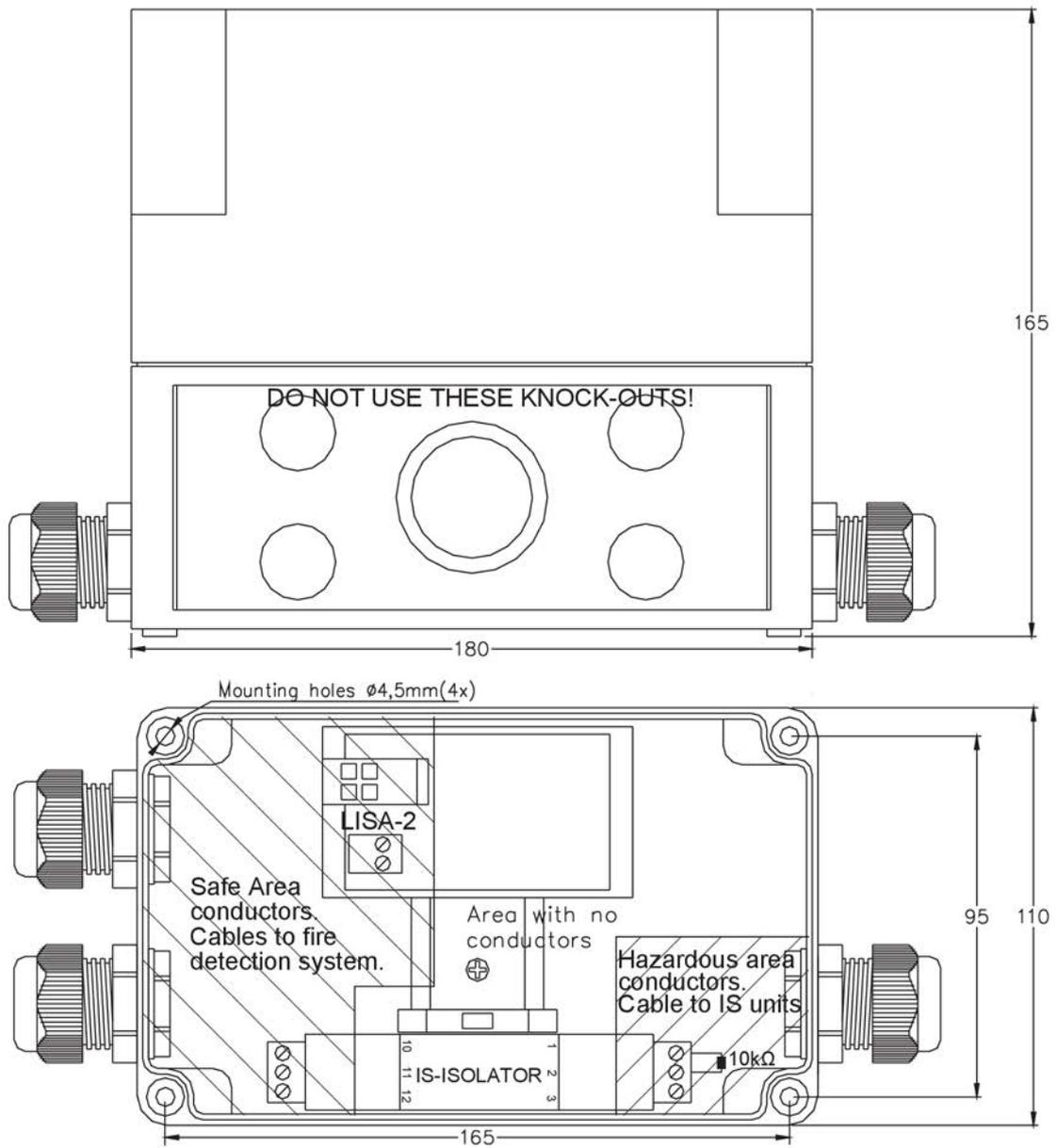
Ingress protection	IP55
Cable glands	Ø8-14 mm
Material	Polystyrol
Colour	Grey, Blue
Weight	~700 g (incl. internal components)

Connection



G010397

Dimensions (mm)



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