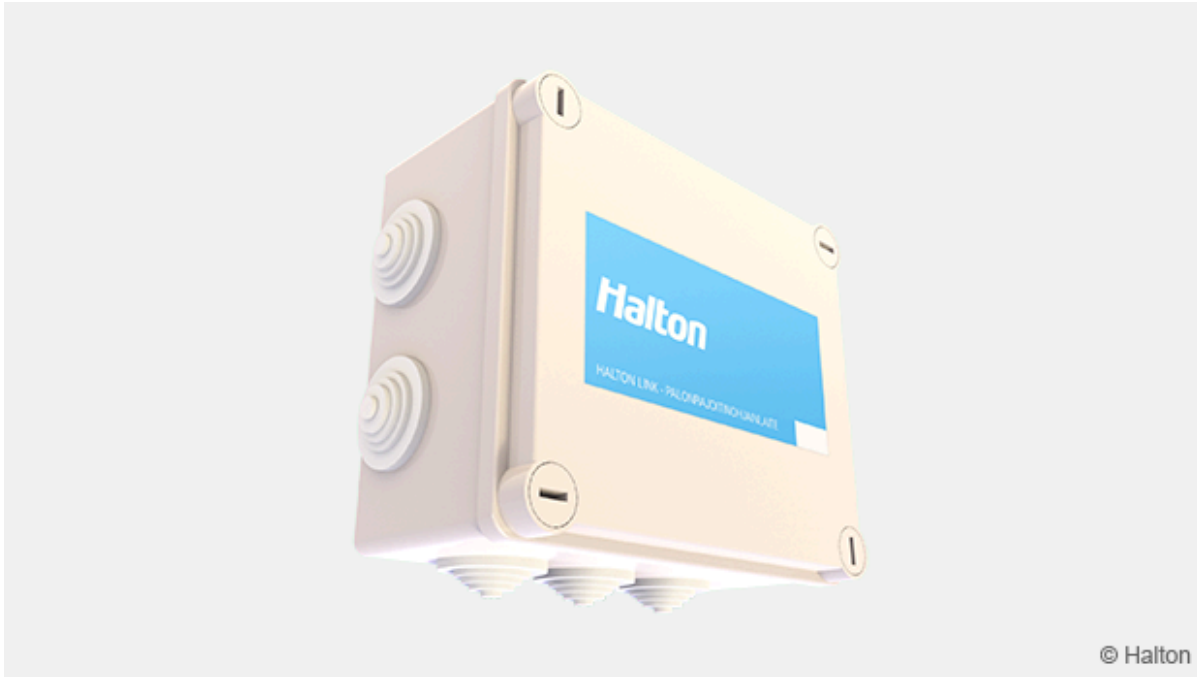


# Halton Safe HSL – Link unit



## Overview

Halton Safe HSL link unit is a part of Halton fire and smoke safety offering.

This is an independent fire damper link unit to be connected to 1-4 fire dampers and 1-4 smoke detectors.

Halton Safe HSL link units use an internal communication bus to communicate with the Halton Safe Management 2.0 controller. The link units are programmed from the Halton Safe Management 2.0 controller. Halton Safe HSL link unit contains a memory, which ensures that their settings are not lost even if the power supply to the system fails. If the connection to the controller is lost, the link units continue running independently.

Halton Safe HSL link units include a 24 V DC power supply for smoke detectors. The system is designed to be used with the following types of smoke detectors: Halton Safe HSR, smoke sensor in room and Halton Safe HSD, smoke sensor in duct.

## Applications

- Controlling fire dampers and smoke detectors in buildings.

## Key features

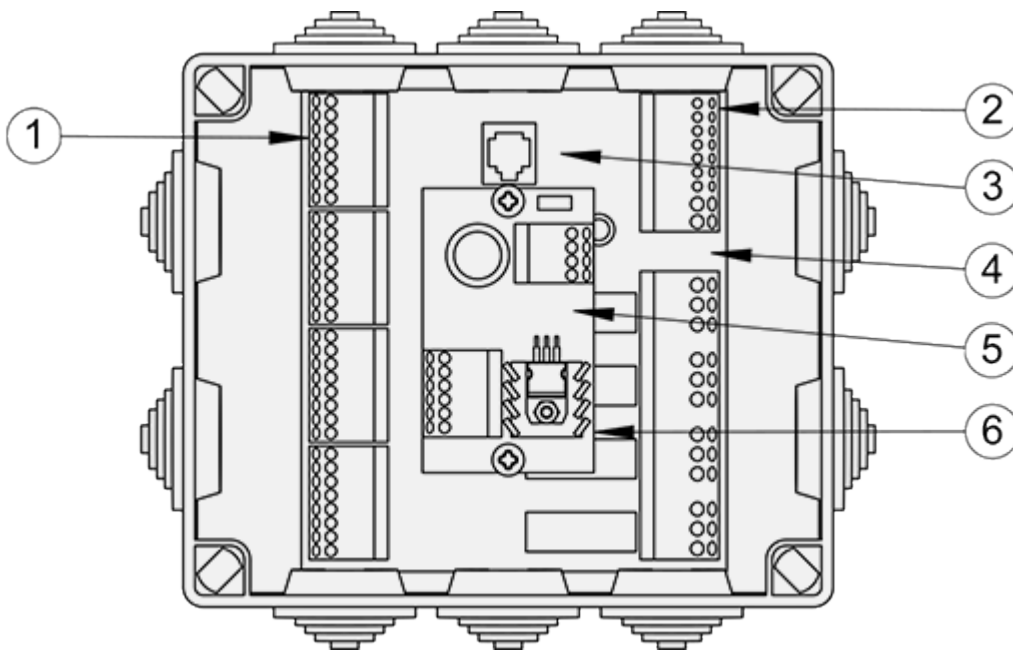
- Can connect to 1-4 fire dampers
- Can connect to 1-4 smoke detectors

- Easy to install

## Features and options

Feature	Description
Power supply	24 V AC
Fuse	SMD 2410 5 A F
Communication bus	Modbus RTU
IP class	IP55

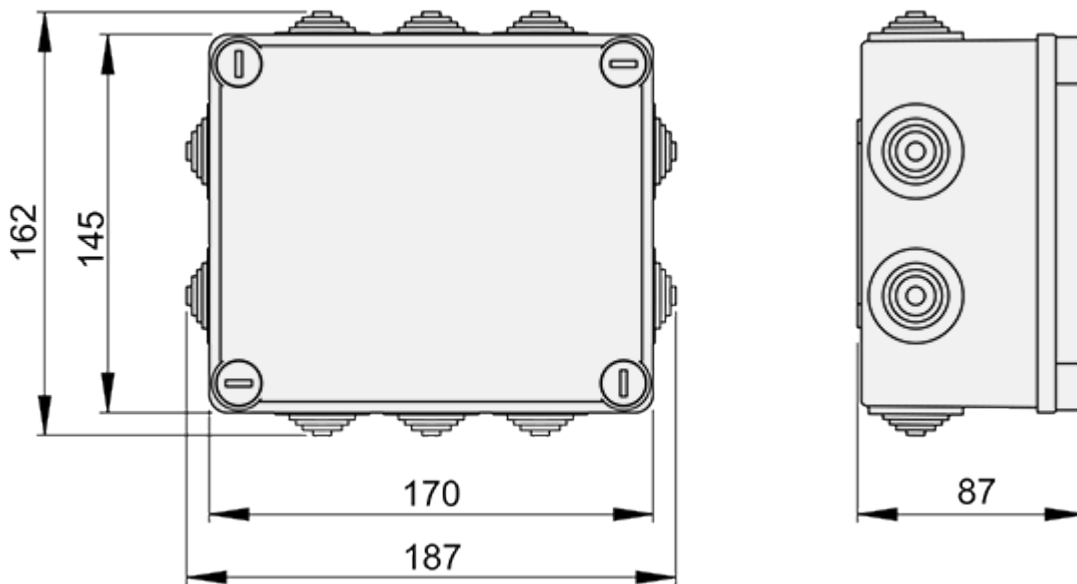
## Structure and components



**Fig.1.** Structure of Halton Safe HSL

No.	Part	Details
1	I/O terminals	Terminals for fire dampers and smoke detectors
2	Bus connections	Internal bus to Halton Safe Management 2.0 controller and Halton Safe HSL link units
3	Indicators for buscommunication	–
4	24 V fuse	SMD 2410 5 A F
5	Power indicator	–
6	DC transformer	24 W

## Dimensions and weight



*Fig.2. Dimensions of Halton Safe HSL*

**Weight:**

1.5 kg

## Specification

Link unit for fire dampers and smoke detectors in the Halton Safe Management 2.0 system.

# Installation information

## Connection diagram

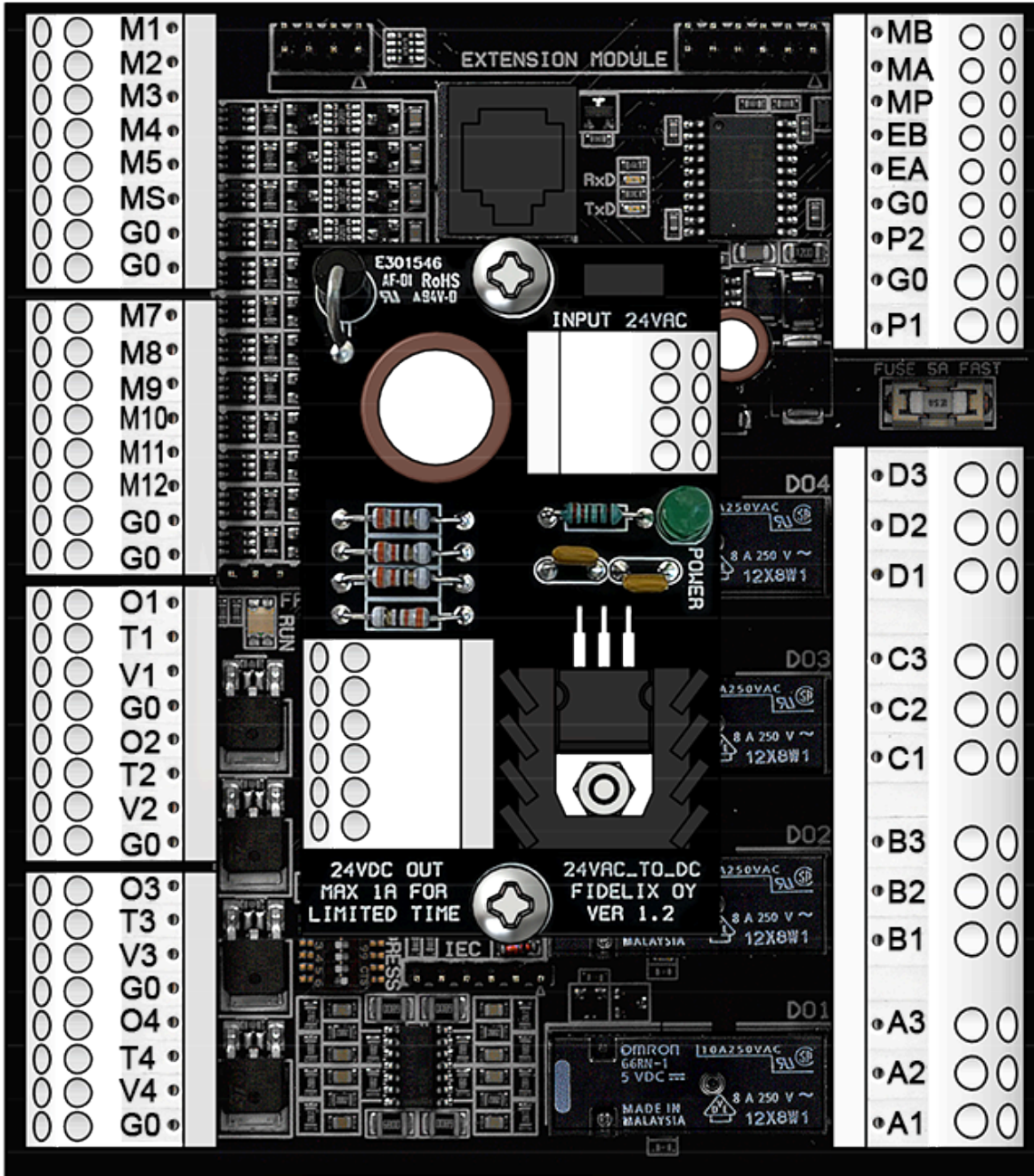


Fig.3. Connection diagram of Halton Safe HSL

### Terminals

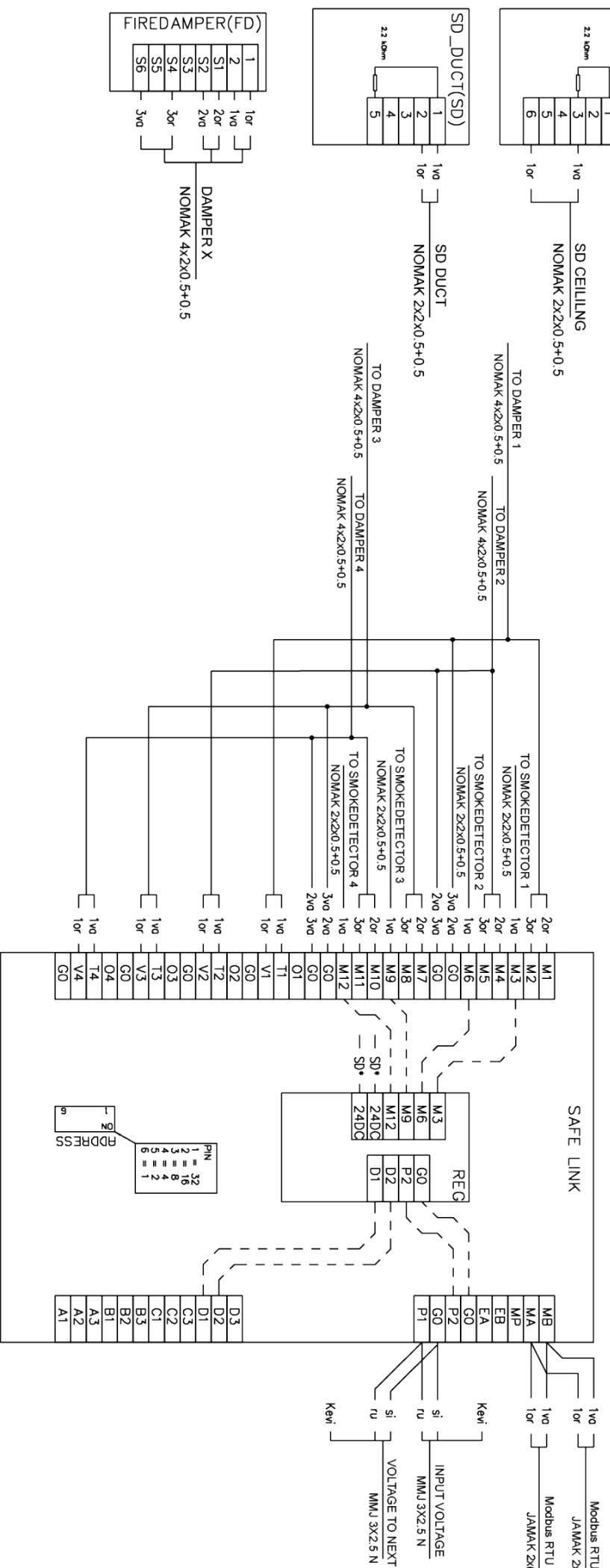
Terminal	Actuator/sensor	Comment
M1	S1	Damper1
M2	S4	Damper1
M3	3/1	Feedback from smoke detector 1
M4	S1	Damper 2
M5	S4	Damper 2
M6	3/1	Feedback from smoke detector 2
G0	S2, S6	Damper 1
G0	S2, S6	Damper 2

Terminal	Actuator/sensor	Comment
M7	S1	Damper3
M8	S4	Damper3
M9	3/1	Feedback from smoke detector 3
M10	S1	Damper 4
M11	S4	Damper 4
M12	3/1	Feedback from smoke detector 4
G0	S2, S6	Damper 3
G0	S2, S6	Damper 4

Terminal	Actuator/sensor	Comment
O1	–	Not in use
T1	2	Power Damper 1
V1	1	Power Damper 1
G0	–	Not in use
O2	–	Not in use
T2	2	Power Damper 2
V2	1	Power Damper 1
G0	–	Not in use

Terminal	Actuator/sensor	Comment
O3	–	Not in use
T3	2	Power Damper 3
V3	1	Power Damper 3
G0	–	Not in use
O4	–	Not in use
T4	2	Power Damper 4
V4	1	Power Damper 4
G0	–	Not in use

Terminal	Actuator/sensor	Comment
MB	–	Internal bus, line B
MA	–	Internal bus, line A
MP	–	Not in use
EB	–	Not in use
EA	–	Not in use
G0	–	Internal use
P2	–	Internal use
G0	–	Input power 24 V AC
P1	–	Input power 24 V AC



PIN selector = Choose address to link unit binary, in range 11-60  
 address is Link number + 10 (Examp. LINK27 = 27 + 10 = 37)

- SD\* - = Voltage Output to SmokeDetector
- Attach smokedetectors cable 1 pair white wire.
- In smoke detector attach in to 6/2-connector.

----- = Inner / Factor assembly, not installed individually



**Fig.4.** Wiring diagram of Halton Safe HSL

## Order code

### HSL; ZT

ZT = Tailored product

N No

### Code example

HSL, ZT=N