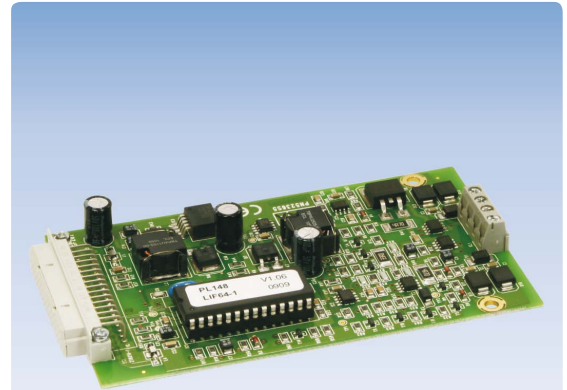


# Loop Interface

## LIF64-1

- **Intelligent analogue ringbus technology**
- **Up to 159 detectors and 159 modules with System Sensor/200 protocol**
- **Up to 126 detectors or modules with Apollo/Discovery protocol**
- **Easy setup of loop elements thanks to AUTO configuration**
- **Maintenance prognosis for smoke detectors**



### Description

The Loop Interface LIF64-1 allows for the connection of one ADM loop with bi-directional data exchange and up to 144 detector zones to Fire Detection Control Panels Series BC216. The ADM loop supports 318 elements (159 detectors and 159 modules) with System Sensor/200 protocol or 126 elements (detectors and/or modules) with Apollo/Discovery protocol.

Each ADM loop can be subdivided into a maximum of 144 detector zones. The function of the detector zone (automatic fire detector zone, technical message, fault detection zone, etc.) as well as the element type (e.g., automatic detector, manual call point, monitor module, control module or conventional zone module) can be parameterised on the fire detection control panel.

The two loop connections of the loop interface – which correspond to start and end of the loop – are equipped with an isolator each. In the event of a short circuit, the isolator interrupts the loop.

Usually, the loop wiring is realised as ring. Thanks to the ring-shaped wiring, all elements on the loop keep wor-

king in the event of a single wire breakage. If necessary, branch lines can also be connected to the ring.

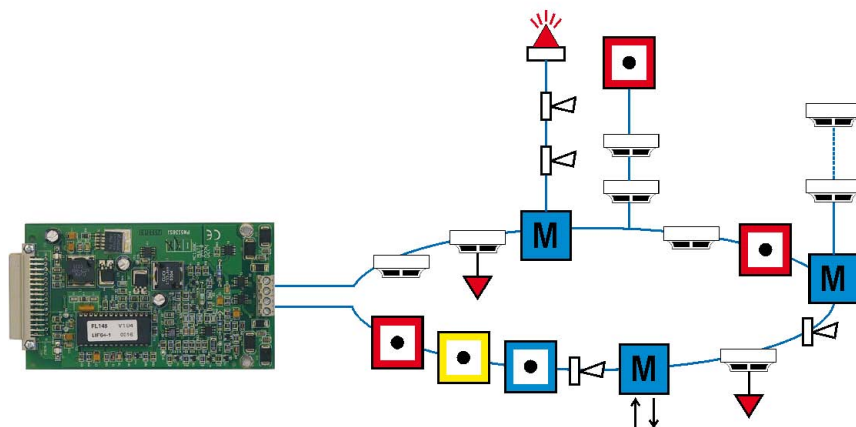
In the event of a short circuit on the loop line, only the loop elements in the faulty line section, that is cut off from the loop by means of isolators, are affected in its function. The control panel indicates a wire breakage or a short circuit as loop fault.

Unshielded wires can be used for the fire detector cabling and, therefore, existing installations can be assumed smoothly and existing cabling can be reused.

On the control panel, you can perform a maintenance prognosis for each connected smoke detector. The continuous monitoring of the detector function allows for cost-optimized operation and optimum planning of the maintenance works.

The Loop Interface provides a processor of its own. At a possible central processing board failure, the diversified redundancy concept thus ensures reliable alarm recognition.





## Specifications

Current consumption at 24V (without detectors/modules)	typ. 25mA
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200), respectively
Loop line resistance	max. 50Ω per core
Ambient temperature	-5°C to +50°C
Dimensions L x W x H	132 x 74 x 16 (mm)
Weight	80g
Part No.	214021
Order name	Loop Interface LIF64-1