

FMZ 5000 Reflex module

Safe for certain.

MINIMAX

► Product ► Application + Benefits

- ▶ The reflex module makes available all functions and connections for 2 extinguishing zones where very fast fire detection and instantaneous extinction are of particular importance.

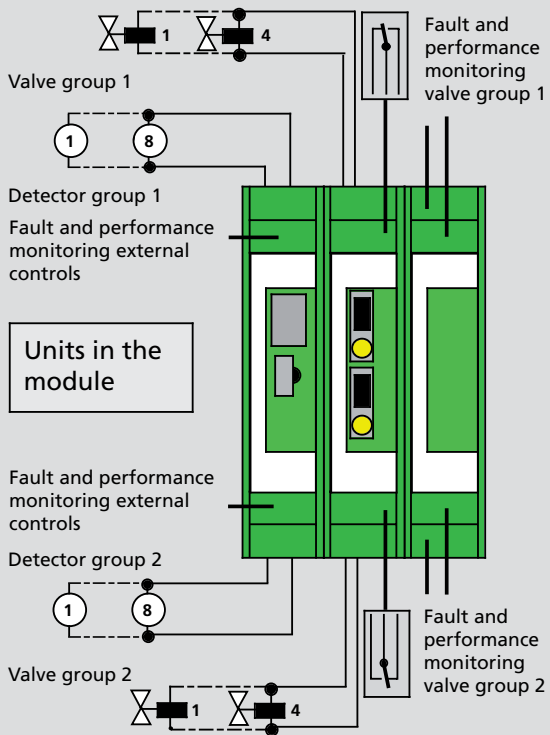
The following components are available as a free combination for both or individually for each extinguishing zone:

- ▶ 2 detector lines for a maximum of 8 spark detectors or 4 flame detectors each.
- ▶ 2 transmission lines for activating and monitoring a maximum 4 valves each for releasing extinguishing agents.
- ▶ 4 lines for monitoring the condition of each valve unit, the extinguishing process and the ball valve.
- ▶ All detector, control and monitoring lines are monitored for wire breaks and short circuits. The Detectors report possible malfunctions after carrying out a self-test.

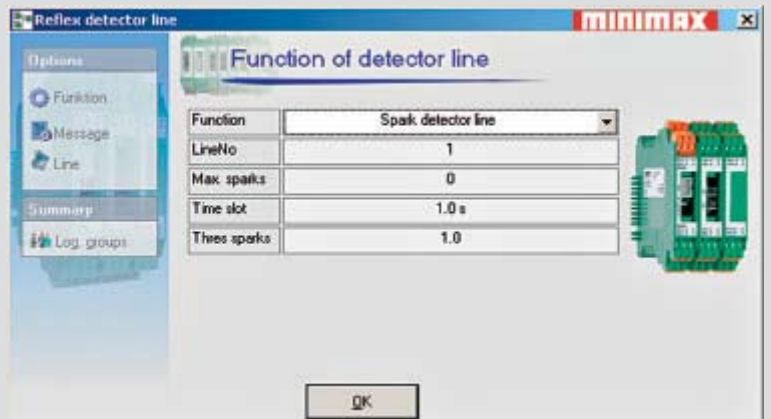
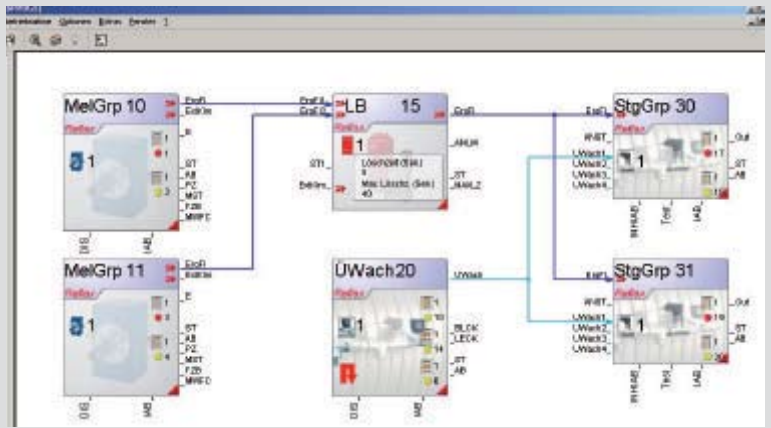
- ▶ The reflex module is essential where pneumatic conveyors are involved and in areas where there is the risk of rapidly spreading fires.
- ▶ Pneumatic conveyors are at risk from flying sparks or glowing embers. Spark detectors in various designs can reliably spot sparks and sources of fires – the extinguishing process is initiated without delay.
- ▶ Alternatively or in addition to the extinguishing action, combustible material can be ejected from the transport system without delay.
- ▶ In ESTA paint shops flames caused by high voltage flashovers are extinguished immediately by closing the supply of paint and entering extinguishing agent through the paint spray nozzles.
- ▶ Flame detectors in the cabins of machine tools monitor the material processing and the cooling agent.

- + Complete protection of your plant through safe and fastest fire detection-combined with greatest possible safety of the extinguishing triggers.
- + Individual configuration for each project: detectors, detector groups, extinguishing valves and valve controls and valve monitoring as well as the response to flying sparks.
- + Adapted production intervention through evaluation and extinguishing of flying sparks: continuous series of flying sparks, exceeding a defined number or average value per unit of time, unacceptably long extinguishing time.
- + Precise monitoring of the supply lines and equipment: control of the tripping voltages as a function of the line resistance and battery charge.
- + Display and registration of the instant when fire detected and extinguished, accurate to milliseconds: fire events can be reproduced precisely and well directed and effective measures carried out.

Function



Each module unit is freely usable for creating two extinguishing zones or assuming other detection and control tasks.



- ▶ Changes in the line resistances of lines to detectors and extinguishing units are identified very accurately and measures taken for reliable fire detection and initiation of extinguishing actions.
- ▶ Components from several Minimax reflex modules can be combined together to create larger extinguishing zones. Parts of the module which are not used in extinguishing zones are available for all the other tasks in the fire detection alarm panel.

- ▶ The module is configured from a PC using the program MxSysCon. The configuration data are downloaded to the control panel.

Technical data

Operating / load voltage	24 Vdc (19 V to 29 V)
Units per module	2 detector groups, 2 control groups, 4 monitoring groups, 2 instantaneous relays
Line monitoring	all lines monitored for line breaks and short circuits
Fault and performance monitoring	detectors and valves monitored for connection and function, overall monitoring of an extinguishing unit with ball valve on a common line
Number of detectors / valves (max.)	8 spark- / flame detectors per detector group, 4 valves per control group
Operating temperature	-5 °C to 40 °C
Relative humidity	95 %, without condensation
Dimensions	99 x 52.5 x 114.5 mm (L x W x H)
Article number	906262

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