

Smoke Detector Type G8910 2217



- Smoke detector operating according to the Tyndall effect
- Detection of smoke-developing smouldering and flaming fires
- Without radioactive sources
- Detection area up to 60 m²
- Transmission of alarms and life signal via Dupline
- Operating voltage supplied by Dupline bus

Product Description

Smoke detector G8910 2217 allows early detection of smoke-developing smouldering and flaming fires. The smoke detector operates on the proven principle of light scattering. The sensing chamber contains a light source and a light sensor positioned so that light only hits the sensor when airborne particles enter the chamber (Tyndall effect), thereby generating the electric signal. This design eliminates the need for a radioactive source. G8910 2217 only requires to be connected to Dupline. All

signals, ie smoke alarm, status signal - indicating correct connection between the smoke detector and the built-in Dupline circuit board - as well as signal indication of successful self-testing are transmitted via the Dupline bus. G89102217 features LED indication of alarm and operational state of the detector. A test button allows manual testing of the alarm function, while simultaneously an alarm is transmitted via the Dupline bus.

Ordering Key

G 8910 2217

Type: Dupline®
Type

Type Selection

Supply	Ordering no.
Supplied by Dupline	G 8910 2217

Supply Specifications

Supply	Supplied by Dupline
Rated operational current	0.2 mA

Input Specifications

Detector	Optical (Tyndall effect)
Response level	Acc. to EN 12239 (95)

General Specifications

Channel programming	By GAP 1605 and special cable GAP-TPH-CAB
Channel assignment	
I/O number 1	Alarm signal (active on alarm)
I/O number 2	Status signal (active when Dupline signal wires and smoke detector are connected: Every 50 sec. This channel is active for one cycle)
Indication	Red LED (short flash once every 50 sec. (life signal): Smoke detector is OK. Short flash every 0.6 sec.: Fire alarm)

General Specifications (cont.)

Environment	
Degree of protection	IP 42
Operating temperature	5 to 40°C (41 to 104°F)
Storage temperature	-50 to 85°C (-58 to 185°F)
Connection	Screw terminals. Wire diameter 0.4 - 1.5 mm See wiring layout
Housing	
Dimensions	For installation on ceilings. Ø80 x 80 mm
Material	Polycarbonate
Colour	White

Notes on Applications

To achieve minimum protection, a G8910 2217 should be installed in each sleeping area and/or on each floor. A smoke detector installed in each room will ensure higher protection (except in the kitchen and bathroom, where steam may cause false alarms).

The following guidelines must be observed when using G8910 2217:

- The floor area and floor-to-ceiling height in rooms must not exceed 60 m² and 6 m respectively.
- The width and length of hallways and narrow corridors must not exceed 3 m and 15 m respectively.
- The smoke detector should be mounted as close as possible to the centre of the room.

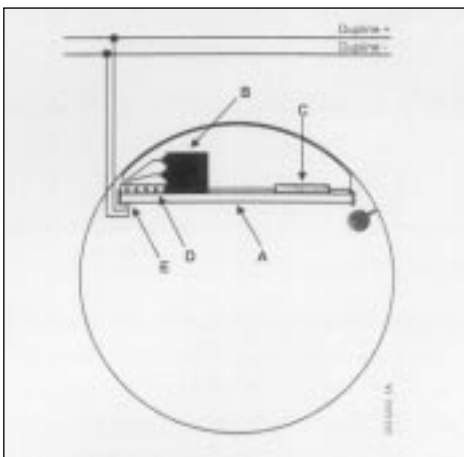
- A gap of at least 0.5 m from walls and furniture must be observed.

The G8910 2217 must **NOT** be mounted at the following locations:

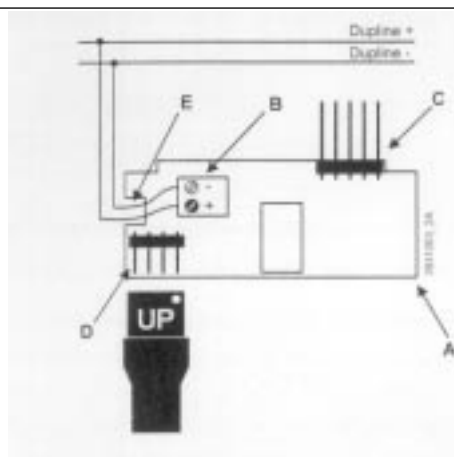
- Near to ventilation ducts or strong draughts.
- Directly in the apex of pitched roofs (a minimum distance of 30 cm from the apex must be observed).

- In rooms where - under normal conditions - a lot of steam, dust or smoke is present (for example in workshops, bathrooms and laundry rooms).

Wiring Layout

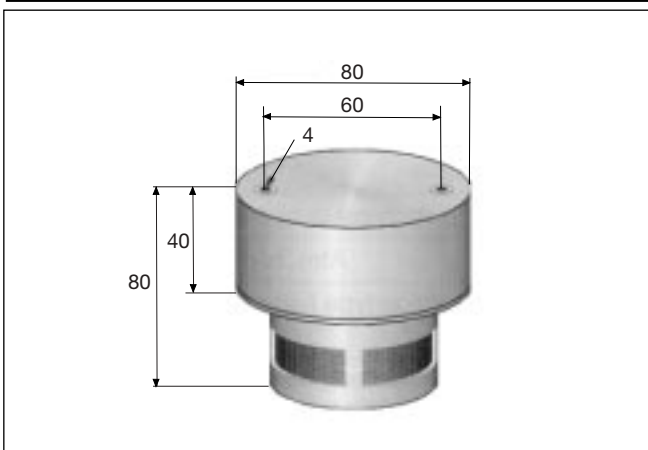


Position of the PCB (A) in G8910 2217: The Dupline signal wire is led through the holding device (E) and fastened at the screw terminals (B). Subsequently, the PCB is fitted in the G8910 2217 so that the contacts (C) lead into the holes.



Address coding of the PCB (A) with hand encoder cable GAP-TPH-CAB and connection of the Dupline signal wires at the screw terminal (B).

Dimensions



Accessories

Programming cable to GAP 1605

GAP-TPH-CAB