



## DATA SHEET

### DRD 3

Article number 09501217



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#### Function

"Detectors" are devices used to report the presence of motion or smoke accumulation. If these triggers are detected, the devices generate a system-compatible signal for further processing. The DRD 3 is an optical smoke detector and allows an early detection of smouldering fires as well as flaming fires that develop smoke. It operates on the proven light scatter principle. Inside the sensing chamber a light source and a light sensor are arranged so that light normally does not fall on the sensor. It is only when airborne particles enter the chamber that light is scattered onto the sensor (Tyndall effect) to produce the electrical signal. This design means that no radioactive source is required. The battery-less DRD 3 only needs the connection to the Dupline conductors. The smoke alarm as well as the status signal, which indicates the correct connection between the smoke detector and the in-built Dupline circuit board, are transmitted via the Dupline bus. Besides the alarm, the LED in the housing of the DRD 3 shows also the state of function of the device.

#### Features

monitored area: max. 60 m<sup>2</sup>, ceiling height: max. 6 m, Dupline channels: each one alarm status channel, Power supply from the Dupline bus

#### Mounting

Surface mounting

#### Applications

Supervision in privately used buildings, hotels and other, commercially used buildings, schools and other public buildings (unless no certification is required)

#### Notes

Never install the smoke detector near to ventilation ducting or strong draughts, directly in the apex of pitched roofs (a minimum distance of 50 cm from the apex must be kept), in rooms where - under normal conditions - a lot of steam, dust or smoke is present (for example in workshops, bathrooms and laundry rooms), in rooms where the temperature rises above +60 °C or falls below 0 °C.

#### Technical Data

Technical Data	DRD 3
Series	DRD 3
Sensor measurement procedure	optical (Tyndall effect)
design	Dupline
max. IF Bus system input channel	2
current consumption bus	450 µA (max. 800 µA)
Operating voltage source	Bus signal
Type	Display Operation LED (red)
	Screw-type terminal (Bus connection)
Clamping area	0.4 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
General data description	General data
Ambient temperature	-10 °C ... 60 °C
Permissible humidity	20 % ... 90 %
Housing type	wall-mounted housing
Mounting type	Ceiling mounting
Housing material	Polycarbonate (PC)

Technical Data	DRD 3
Protection class	IP43
Width	100 mm
Height	100 mm
Depth	51 mm
Design requirements/Standards	EN ISO 12239