IQ8Wireless transponder

- **Dual band transmission technology with change of channels**
- **Meets EN54-25 requirements**
- **Communication with up to 32 wireless devices**
- **All wireless communication devices are integrated in the esserbus® of an IQ8Control / FlexES control as separate addressable users**
- **The wireless communication devices can be assigned in up to 32 detector zones**
- **Alarm and fault forwarding in accordance with EN 54-2**
- **Can be connected to the esserbus®/powered loop and a conventional detector zone**
- **Stand-alone operation possible**
- **Potential-free outputs for common fault and common fire**

Overview

IQ8Wireless technology enables the IQ8Quad automatic fire detectors (with and without alarm signalling units), MCPs and the IQ8Alarm signalling unit to be wirelessly connected to the fire alarm system IQ8Control and FlexES control. Existing fire detection systems can be upgraded to wireless technology or complete fire detection systems for smaller properties can be implemented using wireless components. Depending on the ambient conditions, ranges of up to 300 m are possible (200 m in the case of a wireless gateway).

The tools 8000 programming software is used to assign the wireless components to a wireless transponder or gateway. The charge state of the batteries is checked automatically and if they need to be replaced, this is displayed in good time as a fault message on the fire alarm panel and/or the wireless transponder*.

The best installation location and maximum distance are determined quickly and easily using the field strength measurement feature included in tools 8000. Only automatic fire detectors and alarm signalling units or MCPs may be assigned to a wireless transponder or gateway.

In accordance with the relevant EN regulations and VdS standards, variable operation of both types of detector is not permitted.

The wireless transponder is designed for three different applications:

1. As a node of the fire alarm system IQ8Control and FlexES control loop
2. Interfacing to a higher-level system via the relay outputs, e.g. to the detector zone input of a conventional fire alarm system
3. Stand alone operation with local fire alarm and status indication

The wireless transponder also has two additional potential-free relay outputs, "Common fire" and "Common fault", plus an optional Reset input. Power is supplied via an external 12 V DC or
24 V DC supply voltage, e.g. from the fire alarm panel or an appropriate external power supply unit. The power supply to every individual wireless transponder must be fuse-protected.
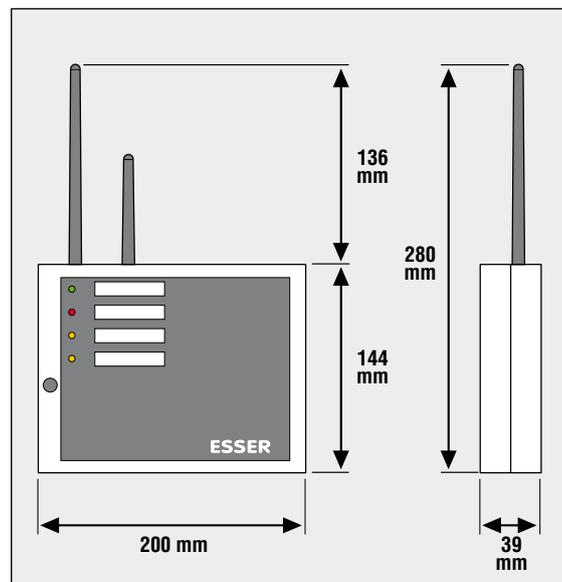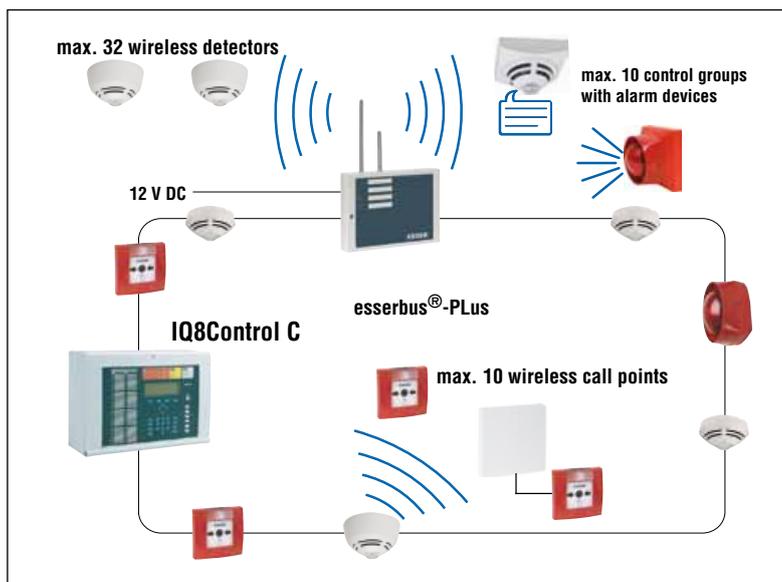
Connecting the IQ8Wireless transponder to the loop

Each assigned wireless communication device can be configured as a dedicated detector zone. In all other applications, the assigned wireless communication devices of a wireless transponder are deemed to be a common detector zone.

- Max. 32 wireless detector bases with automatic IQ8Quad fire detectors per wireless transponder
- Max. 10 wireless interfaces with IQ8MCP per wireless transponder
- Max. 10 control groups for alarm signalling units per wireless transponder
- As a device on the loop, a wireless transponder occupies one address
- Max. 10 wireless transponders per loop
- Max. 127 devices (addresses) in total per loop

When planning and designing wireless components, please note the requirements set out in DIN VDE 0822 T 2 sections 6.2.2 and 6.2.3: Detection and alarm zones.

* when assigning the wireless components using a wireless transponder

Specifications

Operating voltage	9 V DC ... 30 V DC
Rated voltage	12 V DC or 24 V DC
Quiescent current @ 12 V DC	approx. 17 mA
Alarm current @ 12 V DC	approx. 18 mA
Frequency band	433 MHz with 16 channels
	868 MHz with 8 channels
Range inside	max. 30 m
Range outside	max. 300 m
Application temperature	-5 °C ... +55 °C
Storage temperature	-10 °C ... +60 °C
Air humidity	≤ 95 % (without condensation)
Relay contacts	Potential-free relays (change-over contacts) with the switching functions "Common fire" and "Common fault", contact rating 30 V DC/1 A
Housing	ASA + PC plastic
Protection rating	IP42
Color	white, similar to RAL 9010
Weight	approx. 250 g
Dimensions (WxHxD)	200 x 280 x 39 mm (including aerial)
VdS approval	G 205113
Specification	EN 54-17: 2005 / -18: 2005 / -25: 2009

Order data

	Part No.
IQ8Wireless transponder	805595.10
IQ8Wireless detector base	805593.10
IQ8Wireless universal interface, red without cover	805601.10
IQ8Wireless universal interface, white without cover	805602.10
IQ8Wireless mounting frame for IQ8Alarm, red and white	805603
IQ8Wireless mounting frame for IQ8Quad and IQ8Quad with alarm, white	805604
Cover for wireless interface, red and white	805605

Please refer to our Fire Detection Technology catalog for more order data.