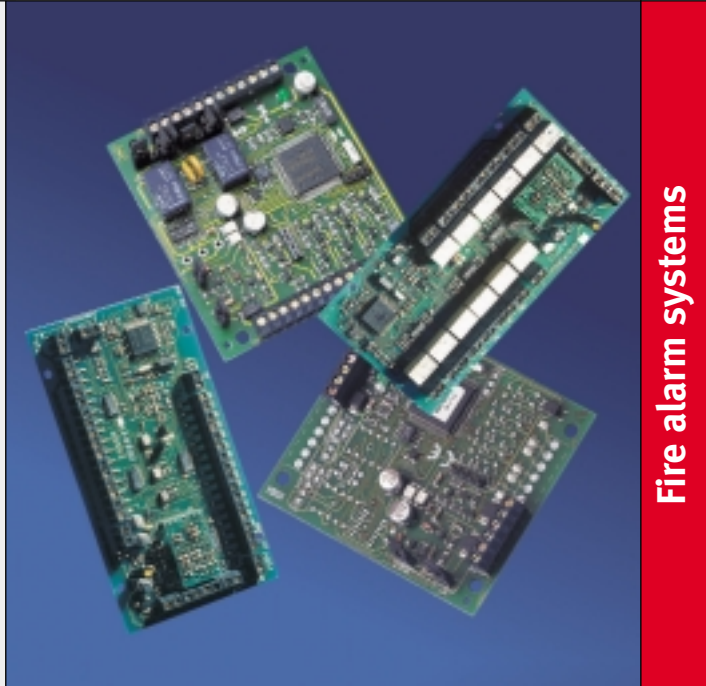


## Product information

# esserbus® transponder

### Performance data at a glance

- Simple, fast installation and start-up
- Additional power supplied optionally via the control panel or an external power supply
- Excellent reliability due to proximate system element control
- High levels of flexibility due to decentralised extension of the fire alarm control panels with additional inputs and outputs
- Cost-effectiveness due to joint operation with fire detectors in an analogue loop, whereby up to 32 esserbus® transponders are possible per loop
- Up to 100 esserbus® transponders can be connected to a fire alarm control panel
- Cost-saving installation due to simple wiring
- Convenient programming via the customer data editor
- Maximum security through isolation of the malfunctioning segment with an optional integrated zone isolator



### Four models for the perfect solution

❖❖❖ esserbus® transponders are extension components that function as bus users on the fieldbus, the esserbus®. With their freely programmable inputs and outputs they can be used to activate and monitor external devices or to connect standard or special detectors (detectors for intrinsically safe areas, line-type fire detectors). The combination of four models plus programmability means that a wide variety of reliable and economical connection options for external devices are always available. esserbus® transponders can be mounted in the fire alarm system 8000 as well as externally in surface or flush-mounted plastic housings in accordance with protection class IP 50.

esserbus® transponders are available in six models:

- esserbus® transponder with 12 relays
- esserbus® transponder with 32 LED outputs
- esserbus® transponder with 4 detector zones/2 relays
- esserbus® transponder with 1 detector zone
- esserbus® transponder with 4 detector zones/2 relays  
1.5 terminal
- esserbus® transponder with 1 detector zone  
1.5 terminal

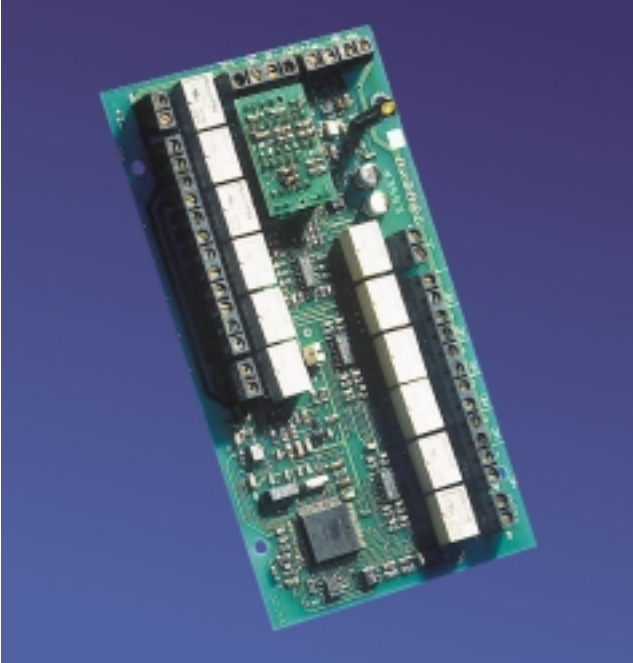
#### Ordering details

	Part No.
esserbus® transponder with 12 relays	808610
esserbus® transponder with 32 LEDs	808611
esserbus® transponder	
4 detector zones/2 relays	808613
esserbus® transponder 1 detector zone	808614

#### Accessories in accordance with the catalogue

Additional zone isolator	788612
esserbus® transponder housing surface-mounted	788600/ 788650 <sup>1)</sup>
esserbus® transponder housing surface-mounted	788601/ 788651 <sup>1)</sup>
Kit for fitting the transponder to the 8007 fire alarm control panel	788605
Kit for C mounting bar	788602
Module housing for C mounting bar (only for 788613 and 788614)	788603

<sup>1)</sup> The esserbus® transponder housings can each accommodate one esserbus® transponder with 12 relays or 32 LEDs, or two esserbus® transponders with 4 detector zones/2 relays or two esserbus® transponders with 1 detector zone.



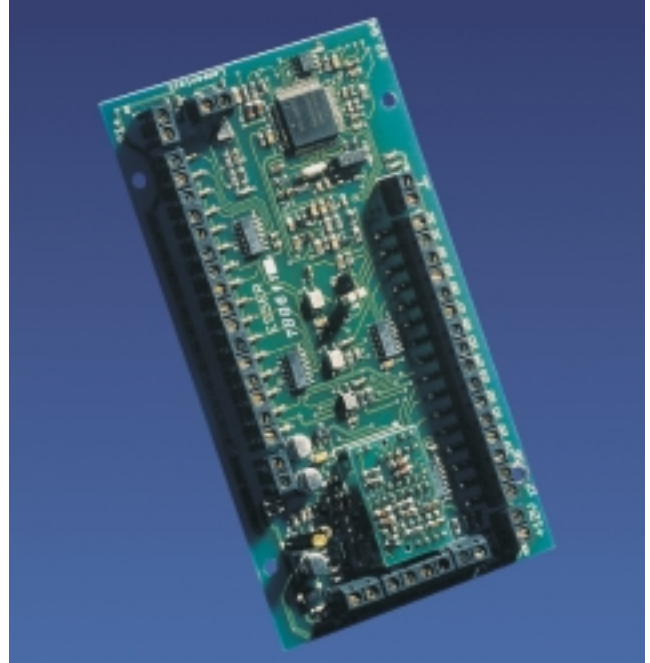
*esserbus® transponder with 12 relays*

## esserbus® transponder with 12 relays

... The esserbus® transponder with 12 relays upgrades the fire alarm system 8000, greatly improving its functionality. It provides decentralised, on-site control of security features such as sounders or beacons and other system elements.

The individual control groups (relays) are treated as control-panel-internal outputs. They can therefore also be activated by other control panels in the essernet® network. The esserbus® transponder's 12 relays can be programmed as NO or NC with the "tools 8000" software .

Technical data	
<b>esserbus® transponder with 12 relays</b>	
Switching power	30 V DC/1 A (max. 3 A per transponder)
Ambient temperature	-10 to +50°C
Analogue loop	
Rated voltage	19 V DC, max. 42 V DC
Rated current	< 100 µA (with 19 V DC)

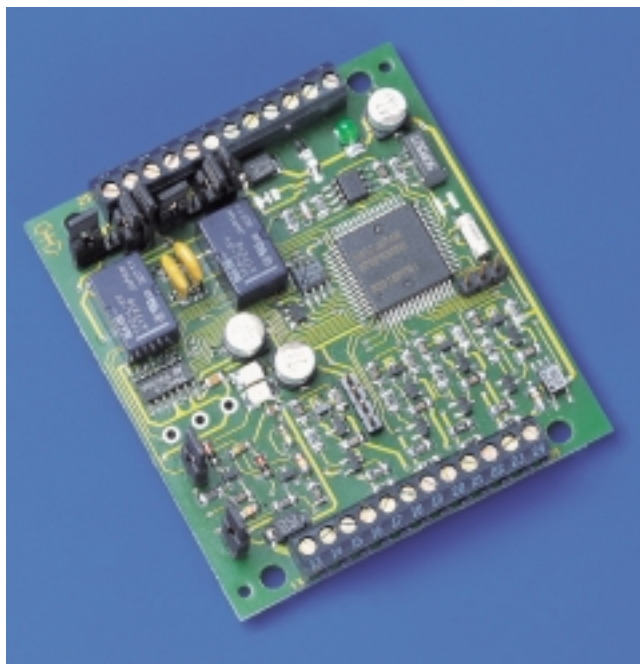


*esserbus® transponder with 32 LEDs*

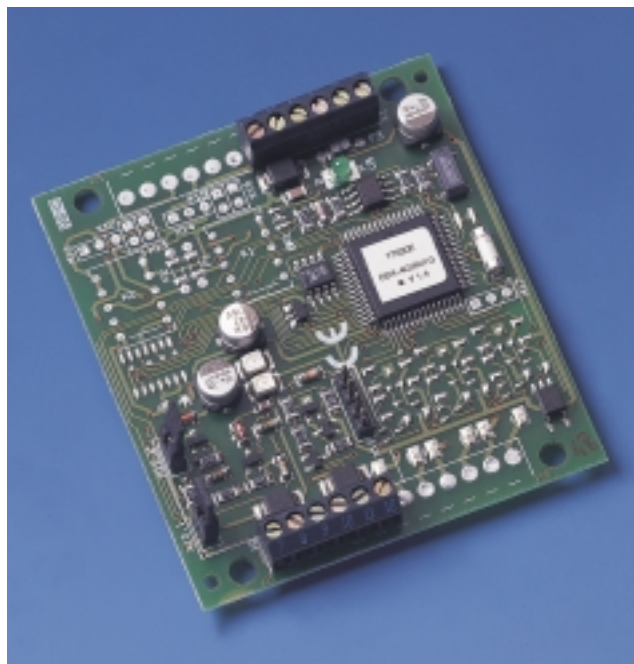
## esserbus® transponder with 32 LEDs

The esserbus® transponder with 32 LED outputs is an intelligent solution. Light-emitting diodes, such as those in a remote indicator panel, previously had to be activated directly via the fire alarm control panel, but the esserbus® transponder with 32 LEDs carries out its task either decentrally or directly in the remote indicator panel. The 32 outputs of the esserbus® transponder can be wired and programmed as positive or negative switches. Each LED output can drive a current of 10 mA. The module is fitted with the necessary series resistors for LED activation before it leaves the factory. In addition, it provides the option of monitoring an external switching voltage. It also has a lamp test input.

Technical data	
<b>esserbus® transponder with 32 LEDs</b>	
Ambient temperature	-10 to +50°C
Analogue loop	
Rated voltage	19 V DC, max. 42 V DC
Rated current	< 100 µA (with 19 V DC)



*esserbus® transponder with 4 detector zones/2 relays*



*esserbus® transponder with 1 detector zone*

## esserbus transponder with 4 detector zones/2 relays

This esserbus® transponder has 4 detector zone inputs for 4 non-addressable detector zones; it also has 2 monitored relay outputs.

The esserbus® transponder can be programmed with 2-zone dependency. Both relays are optionally programmable with different operating modes– monitored or unmonitored.

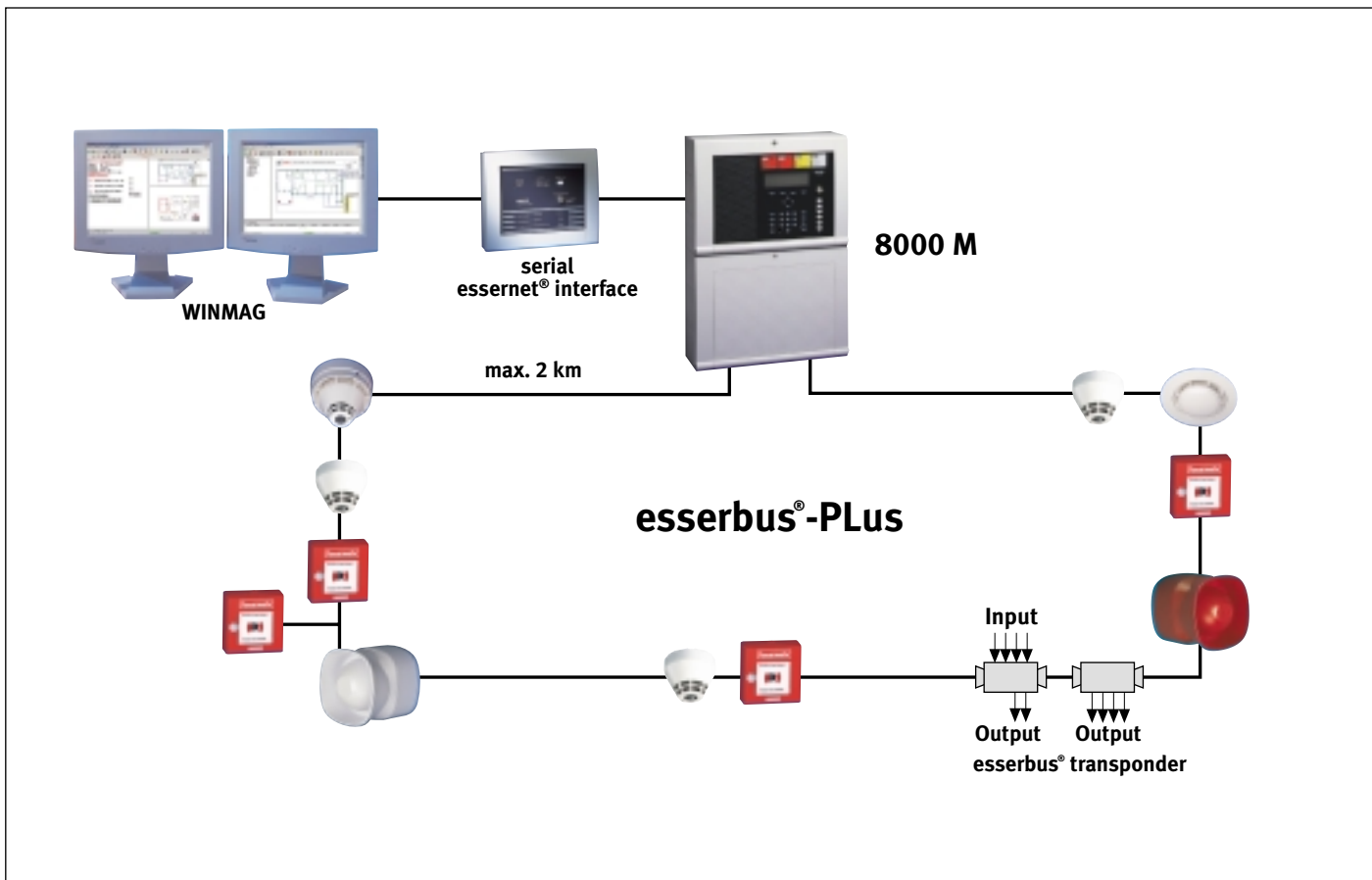
The inputs can be used as a technical alarm (non-fire) input or as a control-in (e.g. to switch off a detector zone).

## esserbus® transponder with 1 detector zone

The esserbus® transponder with 1 detector zone has basically the same connection options as its big brother with 4 detector zones/2 relays, but is designed for 1-zone operation. The esserbus® transponder with 1 detector zone is an economically more efficient alternative to the esserbus® transponder with 4 detector zones/ 2 relays in many situations.

Technical data	
<b>esserbus® transponder with 4 detector zones/2 relays</b>	
Switching power	30 V DC/1 A
Relay monitoring	10 kohm/± 40%
Ambient temperature	–10 to +50°C
Analogue loop	
Rated voltage	19 V DC, max. 42 V DC
Rated current	< 250 µA (with 19 V DC)

Technical data	
<b>esserbus® transponder with 1 detector zone</b>	
Switching power	30 V DC/1 A
Relay monitoring	10 kohm/± 40%
Ambient temperature	–10 to +50°C
Analogue loop	
Rated voltage	19 V DC, max. 42 V DC
Rated current	< 120 µA (with 19 V DC)



*The esserbus® enables a combination of loop and spur loops to be set up with a total of 127 esserbus® devices, which can be divided into up to 127 detector zones. A maximum of 32 esserbus® transponders can be operated on one esserbus®. Each esserbus® device can be optionally provided with an isolator. If a short circuit occurs, all users remain functional, because only the segment between 2 isolators is isolated.*

## Functionality and simple installation

Like all our products, each of these four models is fully system-integratable and makes system expansion easy and favourably priced. An esserbus® transponder is simply included as a user on the 2-wire loop of the fire alarm system 8000, the esserbus®. In comparison with conventional techniques, this eliminates the need for extensive wiring from and to the control panel. The esserbus® transponder can also be integrated on an already existing esserbus®. Data is exchanged over the esserbus® with the help of the monitored 2-wire line, using wire-saving technology.

The esserbus® transponder can always be installed very easily. An additional power supply can be optionally routed through the control panel or an external power supply.

## No loss of security through malfunctions

In case of a malfunction, for example a short circuit in the primary loop, the 788612 zone isolator (optional) in the loop isolates the segment between two isolators, so that the rest of the primary loop continues to function normally.

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