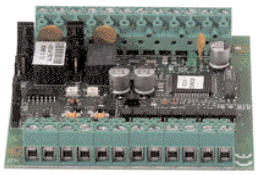
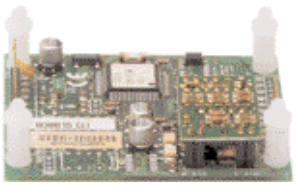
ESSER
by Honeywell

esserbus Transponder

- **Simple installation and commissioning**
- **Additional voltage supply either via central control panel or external power supply**
- **High flexibility achieved by peripheral control panel extensions via additional inputs and outputs**
- **Cost effectiveness through combined operation with fire detectors in one analog loop**
- **Up to 32 esserbus transponders can be connected to the analog loop**
- **A maximum of 100 esserbus transponder can be connected to the fire alarm control panel**
- **Convenient programming with tools 8000**
- **Short circuit resistant and open circuit resistant through integrable isolator board**
- **Plug-in connection terminals for fast installation**





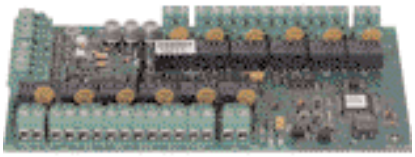
Four version to guarantee the perfect solution

Esserbus transponders are additional devices, which can be operated as bus devices within the multifunctional prime circuit such as the esserbus or the powered loop. With their freely programmable inputs and outputs, they can be used for controlling and monitoring external devices or for connecting standard detectors, diagnostic detectors or detectors for special application (e.g. linear detectors and ex-detectors). Four transponder versions and a wide range of programming options allow reliable and efficient connection of external devices for each type of application. In accordance with protection type IP 50, the esserbus transponders can be mounted to the IQ8Control fire alarm control panel as well as to external surface mount and flush mount plastic housings.

Apart from communication transponders, all transponder types require external voltage supply for operation, which can be monitored if necessary.

esserbus transponder with 12 relays

The esserbus transponder with 12 floating relays is suitable for upgrading IQ8Control fire alarm systems to substantially increase functionality. Decentralised control, on site, for fire alarm facilities such as alarm signalling devices and other devices.

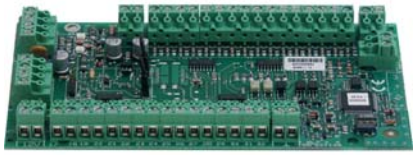


Single control units (relays) are operated like internal control panel outputs. Therefore, they can be controlled by other control panels via the essernet networking system. 11 relays are freely programmable as either NO or NC contacts. The 12th relay is configured as NO contact.

esserbus Transponder

Esserbus transponder 32 optocoupler

The esserbus transponder with 32 LED outputs is a smart trouble-shooter. Conventionally, light emitting diodes such as the ones integrated into remote indicator panels had to be directly controlled via the fire alarm control panel. With the new transponder technology, LEDs can be remotely operated directly in the indicating panel.



The 32 esserbus transponder outputs can be wired and programmed either as positive-guided contacts or non-captive contacts. Each LED output current can cover 10mA. The module is manufactured with the required compensating resistors for LED control. It is also provided with a lamp test input.

esserbus transponder with 4Z/2R

The esserbus transponder is equipped with four detector zone inputs for four non-addressable detector zones and two relay outputs.

The esserbus transponder can be configured for two-zone-dependency. The relays can either be programmed for monitored or non-monitored operation.

If the system is programmed with a reset function, special detectors can directly be reset. A “reset module” (781332 / 781333) is not any longer-required.

Esserbus transponder with one detector zone

The esserbus transponder with one detector zone is generally provided with the same function set as the esserbus transponder with 4Z/2R, but it is only configured for one-zone operation.

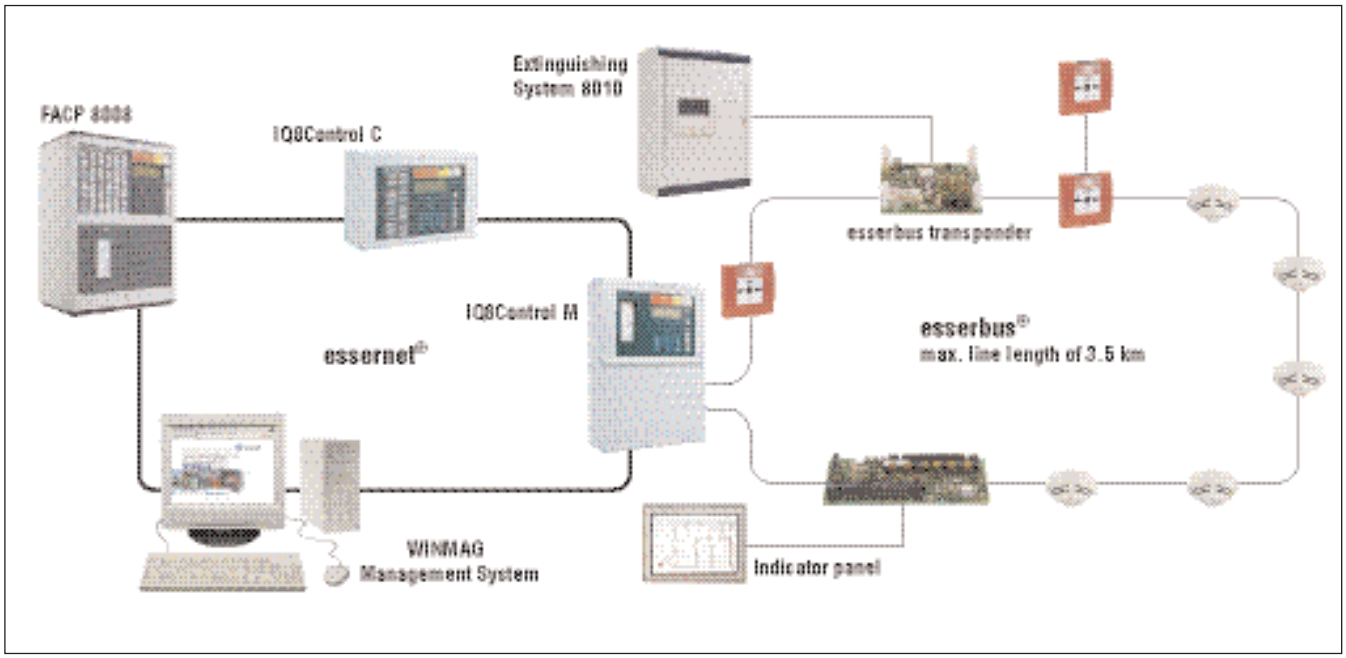
Often the esserbus transponder with one detector zone offers an economic alternative to using the esserbus transponder with 4G/2R if no outputs are required.

Communication transponder

With this esserbus transponder the extinguishing panel 8010 can be integrated on the bus of panel 8000 or IQ8Control, thus enabling several extinguishing zones to be networked with each other. On each bus, a maximum of eight 8010 extinguishing panels can be operated and networked. All indicators and controls can be activated from the fire alarm panel. The communication transponder occupies one address on the esserbus.

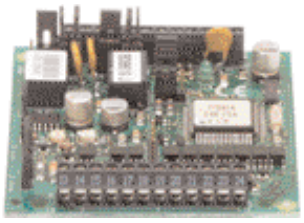
esserbus transponder for door release system

The FSA transponder is suitable for stand-alone or bus operation. For bus operation, the Series 9200 automatic detectors can be used as FSA detectors and the respective status of the door release system is indicated on the fire alarm panel.



Refurbishment zone transponder

The third-party-detector connection module is an independent esserbus device in fire alarm panels connected to 8000 and IQ8Control fire alarm systems. Optionally, third-party automatic fire detectors or third-party manual call points (limit value technology) can be individually connected to the four zone inputs.



Via the internal DC/DC module, the voltage supply can be configured for either 18V or 24V operation. There is no additional reset module required for third-party operation.

Functionality and simple mounting

Transponders are simply and directly installed on site via the 2-wire loop in the IQ8Control fire alarm system. As opposed to conventional technology, expensive and time-consuming wiring to and from the control panel is no longer required. The esserbus transponder can also be integrated into an already existing esserbus system. Wire saving data exchange is performed via the monitored two-wired loop. Alternatively, additional voltage can be supplied by the control panel or an external power supply unit.

Guaranteed safety during abnormal conditions

In case of disturbances and faults such as short-circuits in the prime loop, the optionally integrated isolation board (Part No. 788612) deactivates the faulty segment between two isolators in the loop. Therefore, the functionality of the loop is permanently maintained.

The esserbus transponder housing is suitable for receiving one esserbus transponder with 12 relays / esserbus transponder with 32 LEDs or two esserbus transponders with 4Z/2R / esserbus transponders with one detector zone.

Technical data (esserbus transponder):

	with 12 relays	with 32 LED outputs	with 4 detector zones / 2 relays
Part number	808610.10	808611.10	808613.10
Operating voltage	12 - 24 V	12 V	12 - 24 V
Contact load	30 V DC / 1 A max. 3A per transp.	-	30 V DC / 1 A
Rated voltage (loop)	19 V DC, max. 42 V DC	19 V DC, max. 42 V DC	19 V DC, max. 42 V DC
Rated current (loop)	< 100 µA	< 50 µA	< 250 µA
Ambient temperature	-10 °C bis +50 °C	-10 °C bis +50 °C	-10 °C bis +50 °C
Storage temperature	-25 °C bis +75 °C	-25 °C bis +75 °C	-25 °C bis +75 °C
Weight	approx. 110 g	approx. 95 g	approx. 28 g
Dimensions (W x H x D)	150 x 82 x 20 mm	150 x 82 x 20 mm	82 x 72 x 20 mm

	with one detector zone	communication transponder
Part number	808614.10	808615
Operating voltage	12 - 24 V	-
Rated voltage (loop)	19 V DC, max. 42 V DC	19 V DC, max. 42 V DC
Rated current (loop)	< 120 µA	< 150 µA
Ambient temperature	-10 °C bis +50 °C	-10 °C bis +50 °C
Storage temperature	-25 °C bis +75 °C	-25 °C bis +75 °C
Weight	approx. 28 g	approx. 28 g
Dimensions (W x H x D)	82 x 72 x 20 mm	72 x 65 x 20 mm

	transponder for FSA application	third party detector connection module
Part number	808619	808630.10 / 808631.10
Operating voltage	12 - 24 V	12 V
Contact load	30 V DC / 1 A	30 V DC / 1 A
Rated voltage (loop)	19 V DC, max. 42 V DC	12 V DC
Rated current (loop)	< 350 µA	-
Ambient temperature	-10 °C bis +50 °C	-10 °C bis +50 °C
Storage temperature	-25 °C bis +75 °C	-25 °C bis +75 °C
Weight	approx. 70 g	approx. 150 g
Dimensions (W x H x D)	72 x 65 x 20 mm	150 x 82 x 20 mm

Order information:	**Part No.**
Additional isolator board	788612
esserbus transponder housing (sm)	788600 / 788650.10
esserbus transponder housing (fm)	788601 / 788651.10
Mounting kit	788605
400 mm mounting rail	788602
Module housing for mounting rail (for 808615 and 808619)	788603
Module housing for mounting rail (for 808614.10 and 808613.10)	788603.10

For further order data please refer to our "Fire Alarm Technology" product line catalogue.

Part No. 797584.GO • 11/2007 • Technical information is subject to change without notice!

Novar GmbH a Honeywell Company Dieselstraße 2, D-41469 Neuss Phone: +49 (0) 21 37 / 17-0 Administration Phone: +49 (0) 21 37 / 17-600 Customer Service Center Fax: +49 (0) 21 37 / 17-286 Internet: www.esser-systems.com E-mail: info@esser-systems.com

Honeywell Life Safety Austria GmbH Fernkorngasse 10, A-1100 Wien Phone: +43 (0)1 / 6 00 60 30 Fax: +43 (0)1 / 6 00 60 30-900 Internet: www.hls-austria.com E-mail: hls-austria@honeywell.com