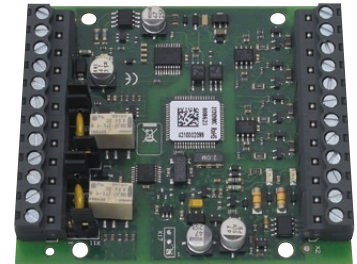


# esserbus transponder for special detectors

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- **Connection of special detectors like VESDA-E aspirating smoke detectors to fire alarm system**
  - **Evaluation of pre-alarms of the connected special detectors**
  - **Signal evaluation and loop monitoring in compliance with EN 54-13**
  - **Integrated loop isolator**
  - **Programmable reset functionality of the relays**
  - **Programmable alarm suppression time after reset for special detector with long switch-on times**
  - **Secure start-up via tools 8000**
  - **Individual programming via tools 8000**
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## General

The esserbus transponder for special detectors is an extension of the esserbus® Transponder product line.

The transponder works with esserbus® and the esserbus-PLus and is tested and approved in compliance with the EN 54-17/18.

It is used for the connection of special detectors, for example line heat detectors and smoke detectors or aspirating smoke detectors, flame detectors, etc. into the FlexES Control fire alarm control panel. Using the detector group inputs alarm messages as well as pre-alarms of special detectors can be evaluated. Two relay outputs are available to control tasks like resetting the special detectors or to monitor the used energy supply.

## Installation

Usually the esserbus transponder for special detectors is installed near a special detector. Some special detectors allow the direct integration within the special detector housing. The power supply of the esserbus transponder for special detectors can be provided via the power supply of the special detector (internal or external), if it is an EN54-4 approved power supply. Then the norm compliant monitoring of the power supply can be done directly with the esserbus transponder for special detectors, without the use of a DC/DC converter.

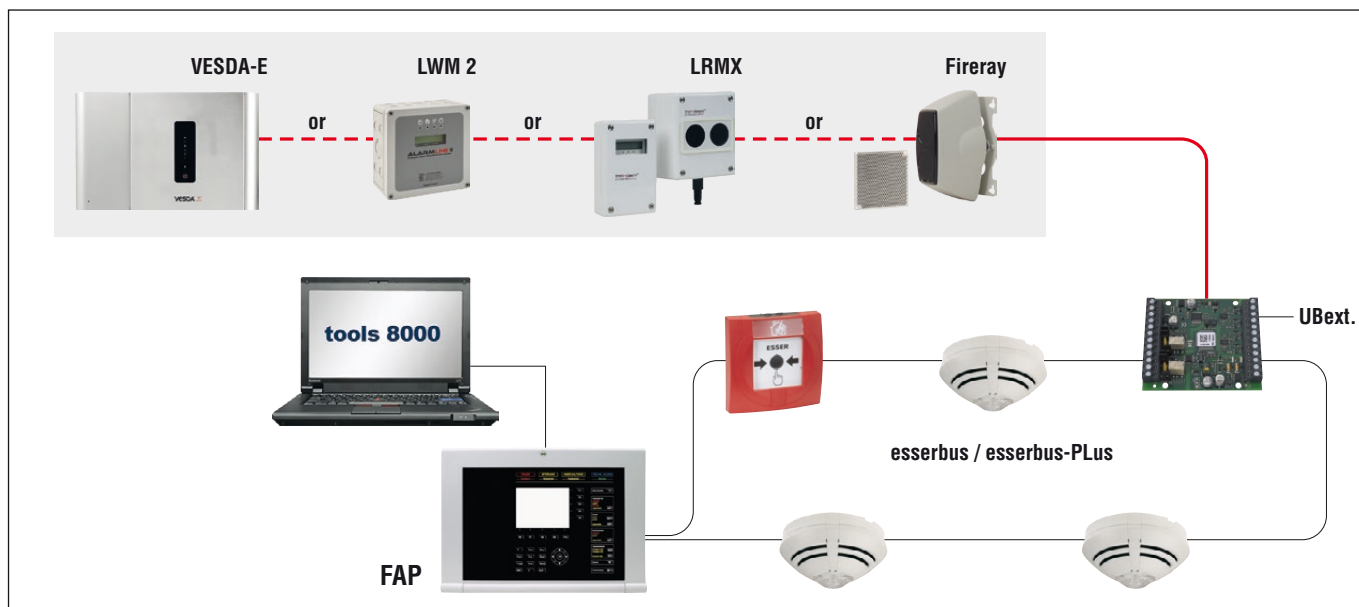
The detector group inputs are interconnected with the alarm or pre-alarm output of the special detector.

A relay output of the esserbus transponder for special detectors can be used for resetting the special detector.

## Project planning

Application-specific project planning of the esserbus transponder for special detectors is supported via the tools 8000 programming software in order to guarantee quick and trouble-free start-up of the FAS.

The transponder inputs and outputs are programmed corresponding to the needed function, like at the alarm transponder. In addition, for special detectors with very long switch-on times after a reset, a message suppression time can be programmed for the detector groups. This prevents the triggering of false alarms during the switch-on time of the special detector.



## Technical data

Part No.	808623.40	
esserbus / esserbus-PLUS	Rated voltage	8 V DC, max. 42 V DC
	Rated current	approx. 90 µA @ 19 V DC
External voltage supply	Operating voltage	10 V DC to 28 V DC
	Power consumption	max. 120 mA @ 12 V DC
Quiescent current	approx. 12 mA @ 12 V DC	
Length of connection lead	max. 1,000 m	
Detector zone input monitoring	EOL-I or 10 kΩ / ±40% contact input	
Relay contact rating	30 V DC / 1 A	
Relay monitoring	EOL-O or 10 kΩ / ±40% for unmonitored actuation	
Ambient temperature	-10 °C to +50 °C	
Storage temperature	-25 °C to +75 °C	
Class of protection	IP 40 (in housing)	
Weight	approx. 28 g	
Dimensions (W x H x D)	82 x 72 x 20 mm	
Specifications	EN 54-17, EN 54-18, CPD 0786-CPD-20947	
VdS approval / CE certification	VdS G 210020	

## Order information

	Part No.
esserbus Transponder housing, surface mount / flush mount grey or white	788600 / 788601 / 788650.10 / 788651.10
Assembly kit for integration of transponders	788605
Rail, length 400 mm	788602
Module housing for rail mounting	788603.10
EOL-I terminating element	808626
EOL-O terminating element	808624

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