ESSER
by Honeywell

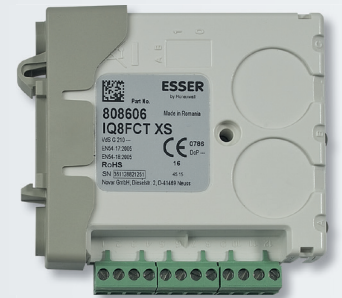# esserbus® -Transponder IQ8FCT XS

✔ **Module for controlling and monitoring Fire protection devices**
✔ **Compatible with FlexES Control and IQ8Control**
✔ **Power supply via the field bus esserbus®**
✔ **Integrated loop isolator**
✔ **Programmable run-time monitoring (fire dampers)**
✔ **Space-saving installation due to compact design**
✔ **Installation on hat rail 35 mm**
✔ **Optional housing for surface mounting**

Application

The IQ8FCT XS can be used to control and monitor external fire protection devices like fire dampers or as a technical alarm module (TAL) to monitor an external contact and control external load*.

The transponder is connected on the esserbus® / esserbus®-PLus loop of fire control system FlexES Control and IQ8Control.

Zone Isolator

Each IQ8FCT XS provides an integrated loop isolator. This ensures that the system continues to function even if a segment of the loop circuit fails due to a short circuit.

FCT Functionality

In this function a fire control device e.g. fire damper will be connected to the relay output of the IQ8FCT XS and controlled according to the programming with configured runtime. Via the input the end positions of this external device are monitored. If the external device is leaving the set position e.g. at a power loss or is stuck a failure is recognized and indicated at the IQ8FCT XS and the fire control panel.

TAL Functionality

Here an external contact can be connected and monitored via the input of the IQ8FCT XS. In case of an activation of this contact, the address and programmed additional text of the corresponding technical alarm module IQ8FCT XS will be displayed.

To monitor this contact an optional monitoring module (Part No. 804870) or alternatively an external resistor combination needs to be used. Cable length to the contact can be up to 500 meters.

For external indication of activation status, a parallel remote LED indicator (Part No. 781804, 781814 or 801824) can be connected (cable length up to 100 m).
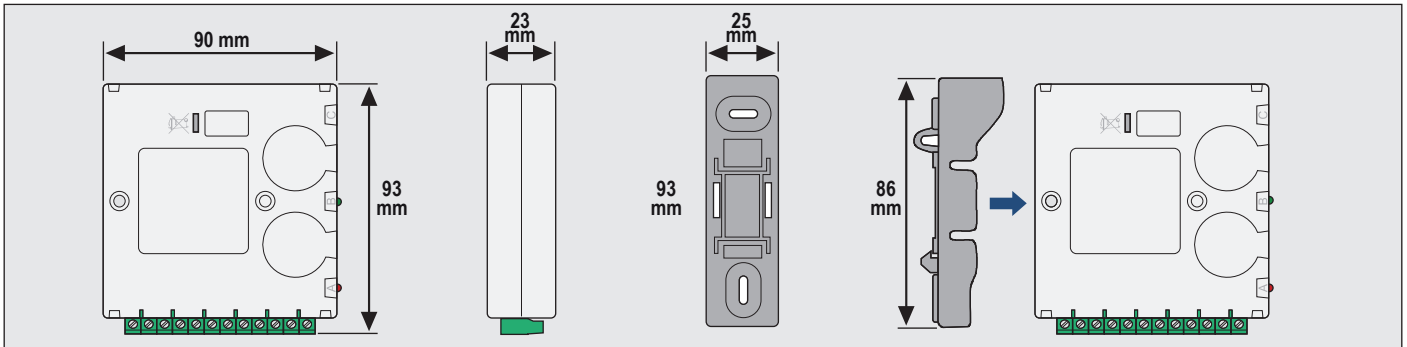
Relay Contact / Operating Mode

A potential-free switch-over relay contact is available for wiring. The relay output can be programmed as a control zone in the customer data of the fire alarm control panel and inversed operating mode can be configured with the programming software tools 8000.

Installation

The IQ8FCT XS can be mounted to a suitable installation bay in the housing of the fire alarm control panel or on a hat rail in a switch cabinet, for example. A corresponding mounting bracket is included in delivery. Alternatively, the IQ8FCT XS can also be installed in optional surface-mounted housings. M200SMB for 1x IQ8FCT XS or SMB6-V0 for up to 6x IQ8FCT XS modules.

*To control fire protection equipment the local and regional requirements / regulations must be observed.

Dimensions

Technical Data

Power supply (from esserbus ®)	14 ... 42 V DC
Quiescent current	approx. 45 µA @ 19 V DC
Relay contact	max. 1 A / 30 V DC or AC potential-free / COM / NO / NC
Input monitoring	FCT mode: 1 k / 6 k8 / 10 k TAL mode:1 k / 10 k (NO/NC)
Input line length	500 m (contact input) / 100 m (remote indicator)
Alarm indicator	red LED
Operation indicator	green LED
System limitations	max. 127 pieces per loop
Connection terminals	max. 2,5 mm² (AWG 26-14)
Application temperature	-20 °C … +70 °C
Storage temperature	-30 °C … +75 °C
Humidity	≤ 95 % rel. humidity (non-condensing)
Protection rating	IP 30 IP 50 (M200SMB / SMB6-V0)
Housing	PC/ASA plastic
Colour	gray (similar RAL 7035)
Weight	approx. 90 g approx. 250 g (with housing M200SMB) approx. 790 g (with housing SMB6-V0)
Dimensions (w x h x d)	90 x 93 x 23 mm 130 x 143 x 49 mm (with housing M200SMB) 245 x 180 x 100 mm (with housing SMB6-V0)
Specification	EN 54-17 : 2005 / -18 : 2005
VdS approval	G 209138
Declaration of Performance	DoP-20792130701

Order Information

	Part No.
IQ8FCT XS	808606
Surface mounting box for 1x IQ8FCT XS	M200SMB
Surface mounting housing for 6 x IQ8FCT XS	SMB6-V0
Monitoring module (TAL mode)	804870