

esserbus®-Transponder IQ8FCT LP

- ✓ **Module for controlling and monitoring Fire protection devices**
- ✓ **Power supply via the field bus esserbus®**
- ✓ **Output switching load up to 230 V AC / 16 A**
- ✓ **Programmable run-time monitoring**
- ✓ **Configurable fail safe functionality**
- ✓ **Manual output activation at transponder**
- ✓ **Robust IP 65 protected surface mount housing**
- ✓ **Silicone cable entries for fast installation**



Application

The IQ8FCT LP can be used to control and monitor external fire control devices like fire dampers or as a technical alarm component (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.

FCT functionality

In this function a fire control device e.g. fire damper will be connected to the relay output of the IQ8FCT LP 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 LP and the fire control panel. The IQ8FCT LP is also equipped with configurable fail save functionality. If enabled, a communication loss with control panel results in automatic selfactivation of relay output.

TAL functionality

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

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

Relay contact / Operating mode

A switch-over relay contact is available for wiring, which can be used as potential free or potential switching output. For installation comfort and safety a dedicated input for external switching power supply (30VDC/230VAC) is provided and internally bridged with relay output terminals.

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. Via the jumper BR2 a manual activation of the relay contact can be triggered for testing purpose.

Zone isolator

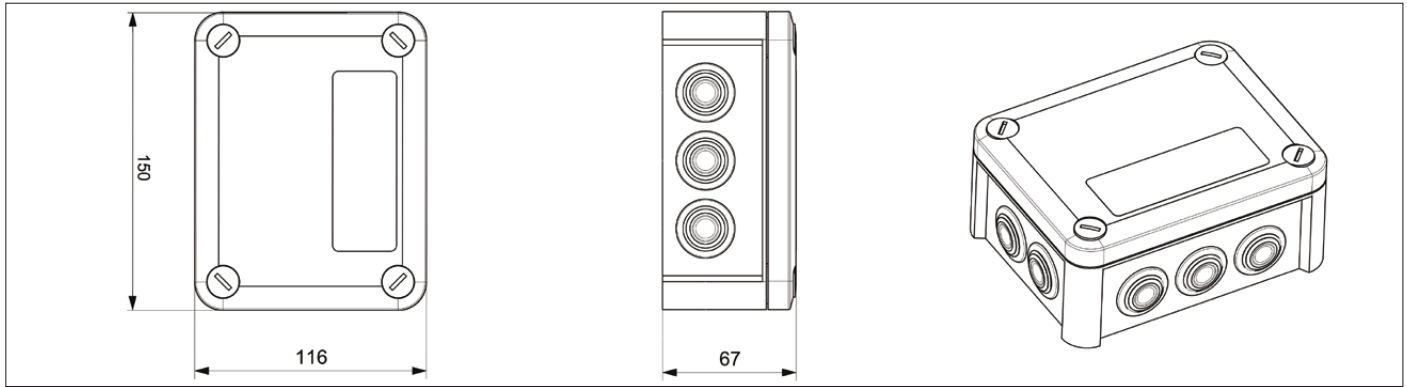
Each IQ8FCT LP provides an integrated loop isolator. This ensures that the system continues to function even if a segment of the loop circuit fails due to a short circuit.

Installation

The IQ8FCT LP comes in an IP 65 protected surface mount housing. For fast cable entry 10 silicone cable inlets are available for different sizes of cables or direct inserting of 25 mm cable installation pipes.

The transponder provides separation of high voltage/ current to low voltage circuits and cable terminals.

The transponder input monitors controlled device status contacts by means of internal EOL resistors. If transponder is installed far away from controlled device, use of external EOL resistors can be activated by removing jumper BR1.



Dimensions

Technical Data

Power supply (from esserbus ®)	14 ... 42 V DC
Quiescent current	approx. 45 µA @ 19 V DC
Relay contact	max. 16 A resistive or 8 A inductive load of 230 V AC or 30 V DC surge resistance 250 A @ 10 ms potential-free or voltage switching / COM/NO/NC
Input monitoring (at use of external resistors)	FCT mode: 1k / 6k8 / 10k TAL mode: 1k / 10k (NO) or 6k8 / 10k (NC)
Input line length	500 m
LED indicators	LED1 (green): Operation / esserbus® communication LED2 (red): Alarm LED3 (green): Output relay status LED4 (red): Input status
Jumper bridges	BR1: internal / external resistor usage BR2: manual output activation
System limitations	max. 127 pieces per loop
Input / loop terminals	max. 2,5 mm ² (AWG 26-14)
Relay contact / power supply terminals	max. 6 mm ² (AWG 30-10)
Application temperature	-20 °C ... +70 °C
Storage temperature	-30 °C ... +75 °C
Humidity	≤ 95 % rel. humidity (non-condensing)
Protection rating	IP 65
Housing	PP plastic
Colour	gray (similar RAL 7035)
Weight	approx. 250 g
Dimensions (w x h x d)	150 x 116 x 67 mm
Specification	EN 54-17 : 2005 / -18 : 2005
VdS approval	G 209138
Declaration of Performance	DoP-20792130701

Order Information

Part No.

IQ8FCT LP	808621
Monitoring module (TAL mode)	804870