

# IQ8Quad Fire Detectors



## O<sup>2</sup>T/So & O<sup>2</sup>T/FSP multisensors with integrated alarm devices

→Part no. 802384.MAR & 802385.MAR

→Approvals DNV, ABS, BV, GL, LRS, MMF, MCA, PRS, RINA

→Short description O<sup>2</sup>T/So IQ8Quad multisensor with integrated sounder  
O<sup>2</sup>T/FSp IQ8Quad multisensor with integrated sounder flash and speech

### →Description

The IQ8Quad smoke detectors with built-in alarm device incorporate up to 4 different functionalities depending on the type of detector:

- fire detection as per EN 54-7
- integrated heat sensor as per EN 54-5
- optical alarm via flash LED
- acoustic alarm via sounder as per EN 54-3
- speech alarm messages, not used in marine applications.

### Detection

All IQ8Quad with alarm function is based on the O<sup>2</sup>T multisensor detector comprising two optical smoke sensors with different scattered light angles as well as a heat detector sensor for detecting everything from smouldering to open fires. Each detector is provided with an integrated isolator.

### Alarm signaling

The alarm signaling function is activated by the control panel. No further short address needs to be allocated. It is programmed with the FireWin Explorer commissioning and programming tool.

### Alarm tone / speech message programming

For detectors with speech message and / or alarm tone function with up to five language options, up to 4 signals can be programmed. Two signals are reserved for alarm signaling and evacuation in the case of fire. Two further signals can be programmed for other events. Each signal can consist of up to four signal components, enabling one signal to be programmed as a DIN tone combined with subsequent speech messages in three different languages.

For marine applications only the acoustical and/or optical alarm function is used.

Alarm tones can be chosen from a table of 20 tones, including GA signal for marine systems

When the alarm sequence is programmed it will upon activation be repeated until silenced from the panel. They can also be programmed with a repetition rate of one to three times.

### Sound level programming

The sound level [dB(A)] can be set in eight steps, from approximately 64dB (A) to approximately 92dB (A).

## →Features

### Detection

The reliable O<sup>2</sup>T multisensor principle ensures consistent reliable detection and unparalleled performance in false alarm rejection.

### Optical alarm

External power supply is not required  
 No additional short address  
 Automatic synchronisation  
 High optical flash energy

### Sounder

External power supply is not required  
 No additional short address  
 Automatic synchronisation  
 Maximum sound level: 92 dB(A) at 1m  
 Multiple signal pattern can be combined to one signal sequence  
 Signal pattern and repetition rates can be set individually  
 Alarm tone type can be selected from the tone type table

### Speech message with alarm signal

External power supply is not required  
 No additional short address  
 Automatic synchronisation  
 Maximum sound level: 92 dB(A) at 1m  
 Multiple signal patterns can be combined to one signal sequence  
 Signal pattern and repetition rates can be set individually  
 Alarm tone / speech message can be selected from the tone type table  
 Speech messages can be played in up to five languages

## →Technical Data

Operating voltage	8 to 42 V DC
Storage temperature	-25°C to +75°C
Material	ABS plastic
Colour	white, similar to RAL 9010
Weight approximately	aprox. 145g
Dimensions (Ø x H)	117 x 59 mm (incl. base 65 mm)
Ingress protection	IP 42
Application temperature	-25°C to +65°C
Detector specification	En 54-7/5 B, CEA 4021
Response temperature	79°C to +88°C
Relative humidity	max. 95% humidity (w/o condensation)
Quiescent current @ 35 V DC	aprox. 250 µA
Load factor	2
Sound level	92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Alarm signal specification	EN 54-3

## →Additional information

Detectors with alarm function can not be used with relay base 805591

### **Honeywell Life Safety AS**

Lierstranda Industriområde, P.O. Box 3514, N3007 Drammen, Norway		Tel: +47 32 24 48 00
E-mail: <a href="mailto:fire.safety@honeywell.com">fire.safety@honeywell.com</a>	Bank Account No.: 6138.06.30140	Fax: +47 32 24 48 01
Internet: <a href="http://www.eltek-fs.com">www.eltek-fs.com</a>	Org Nr: NO 981 336 305 MVA	