

**ESSER**

by Honeywell



With infographic on  
smoke detector replacement

For increased safety in your building

Have your smoke detectors  
replaced now!

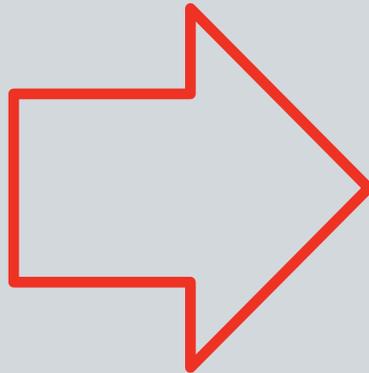
# What are the risks of not replacing your old smoke detectors?



As time goes by, dirt accumulates inside the smoke detectors, and components get old. This may trigger false alarms.



Old detectors without a micro-processor are not as reliable as today's detectors



The cost of communicating false alarms to the fire services can be high. But if fires are identified late and evacuation of tackling the fire are delayed the risk of economic damage and reputation loss can be huge.



Late evacuation or fighting the danger increase the risk of economic damage and reputation loss.



Possible losses when settling the damage claim after a fire damage incident.

## What is required by DIN 14675?

# DIN



**Normal smoke detectors without contamination balance** must be replaced within no more than 5 years.

**This applies to ESSER smoke detectors Series 9000, Series 9100**



**Smoke detectors with an automatic contamination balance** may stay in service for up to 8 years.

**This applies to ESSER smoke detectors Series 9200, IQ8Quad and ES Detect**

### **This Norm applies to fire control systems, that**

- are installed after 12/2006
- are required to follow current building law
- are equipped with a direct connection to the fire services

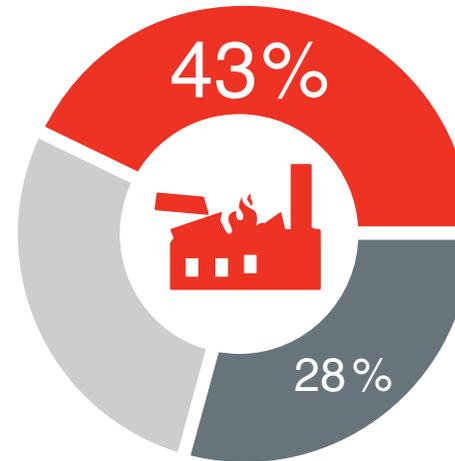
For fire alarm systems installed before the release of this norm the replacement of detectors is strongly suggested. Such replacement can be useful to avoid compensation claims.

## What fires can do



# € 3,750,000

is the average annual cost of damage caused by industrial fires



43% of affected businesses never resume operations after a fire.

An additional 28% of businesses file for bankruptcy within 3 years of a fire.

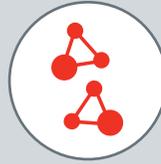


old age homes and care facilities suffer from fires every year. 20 people die in these fires, and up to 150 are injured.



of victims of fires in Germany are not hurt by the fire itself, but are poisoned due to the inhalation of smoke.

# Why is replacement necessary?

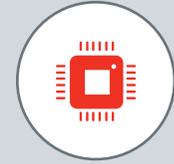


## Environmental impact contamination

- chemical contamination
- mechanical strain



## Ambient conditions such as heat and humidity

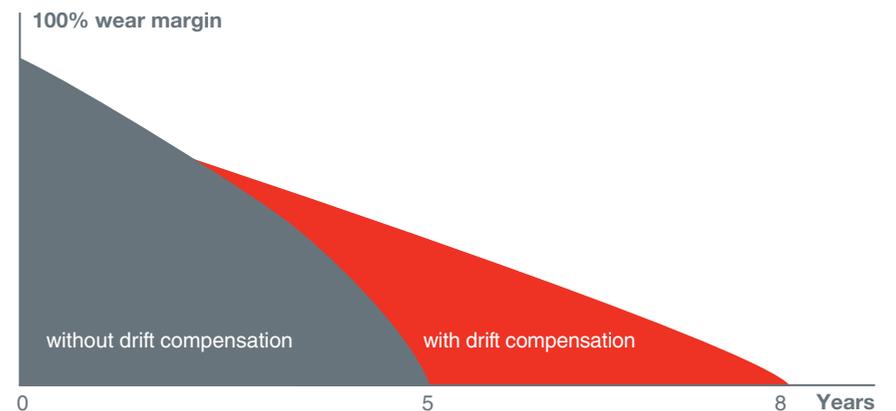


## Aging of electronic components



## Automatic drift compensation

Some smoke detectors have an automatic contamination balance feature. Measured values and monitored sensitivity is controlled by a micro-processor. Detectors with this functionality are not only more economical, but they increase your safety too! They can distinguish between dust and causes of fire. They „know“ that they get contaminated over time, and increase the alarm threshold accordingly. As a result, the risk of a false alarm is low, while at the same time they are just as reliable as other smoke detectors. Due to this innovative technology, they can be replaced after 8 years, rather than after 5 years.



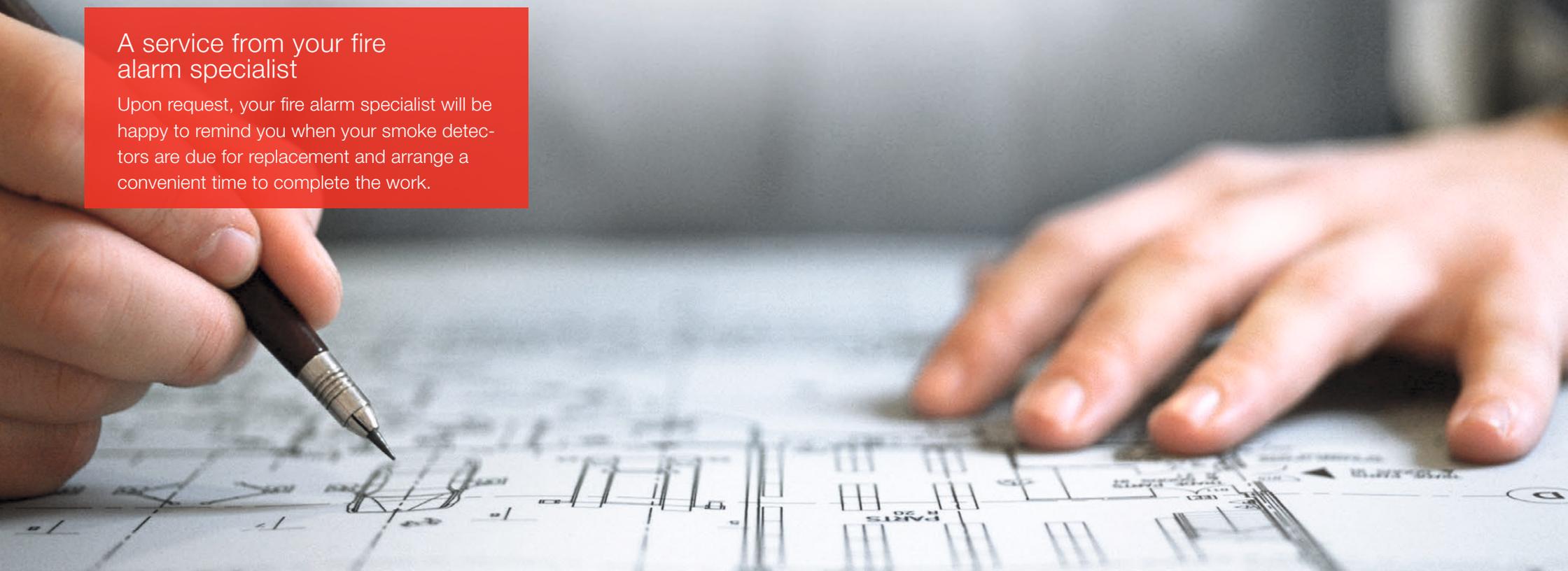
# With our recommendations, you avoid risks.

Over time, smoke detectors are contaminated as a result of operation, they corrode, and electronic components age. It has been demonstrated that standard smoke detectors can perform for up to 5 years according to the specifications of the DIN 14675 standard for fire alarm systems mandated by construction regulations.

Modern smoke detectors with micro-processor controlled automatic contamination balance and drift compensation can compensate for these factors and remain operational for up to 8 years. Even when smoke detectors are regularly inspected, and when their actual condition is tested, they still must be replaced within the prescribed period.

## A service from your fire alarm specialist

Upon request, your fire alarm specialist will be happy to remind you when your smoke detectors are due for replacement and arrange a convenient time to complete the work.



To minimize maintenance expenses with innovative smoke detector technology:  
Learn now about smoke detectors with micro-processor controlled monitoring  
of measured values

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