



GLOBALLY APPROVED FIRE & OVERHEAT DETECTORS

- ⊕ PRE-SET ACTIVATION BETWEEN 60°C AND 385°C
- ⊕ DURABLE & LONG-LASTING STAINLESS STEEL
- ⊕ CORROSION PROTECTION FOR OFFSHORE MARINE
- ⊕ ATEX- & IP66-APPROVED ENCLOSURES

FENWAL™
CONTROLS

Kidde-Fenwal is part of Carrier

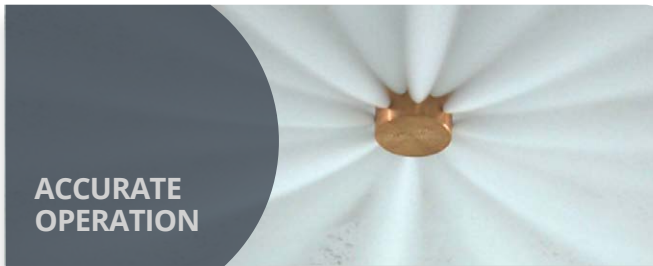
TRUSTED FOR ACTIVATION OF OVERHEAT ALARMS
AND FIRE SUPPRESSION SYSTEMS FOR OVER 75 YEARS

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Every fire protection system requires a highly accurate, rapid and trusted thermal detection method. For over 75 years, *Detect-a-Fire* heat detectors have provided a **crucial first step** in the activation of overheat alarms or the initiation of many fire suppression types.

Manufactured in the US by Fenwal Controls, each mechanical detector is made from **durable stainless steel** - and hermetically sealed to activate at a pre-set temperature between 60°C to 385°C.

Internationally certified, detectors can be customised to the needs of each application, with options available for the integration of a suitable thermostatic switch or use in corrosive, hazardous or explosive conditions to meet **ATEX and IP66 standards**.



ACCURATE OPERATION

Precisely detects rise in air temperature during both fast-rate and slow-rate fires

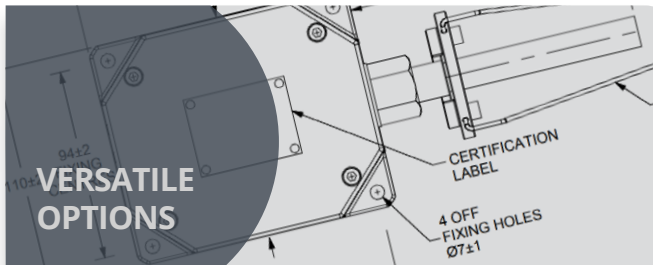
- Rate compensation method used to ensure activation at the pre-determined set point
- Rapid response time during a fast-rate fire
- No false alarms from any brief and harmless rises in ambient temperature



TRUSTED DESIGN

Repeatable and testable operation with a self-restoring action for long term reliance

- Factory-set fixed activation temperature settings between 60°C and 385°C (140°F to 725°F)
- Robust construction from durable stainless steel and with no replaceable parts
- Hermetically sealed & tamperproof as well as shock and vibration resistant



VERSATILE OPTIONS

Customisable options include various protective measures for corrosive or hazardous conditions

- Marine grade versions for use in offshore oil and gas or other salt water environments
- Customise mounting and materials of standard detectors to meet specific design criteria
- ATEX-approved, explosion proof or weather protected IP66-rated enclosures available



MULTIPLE APPLICATIONS

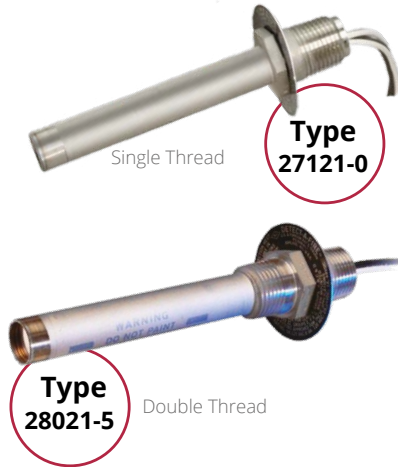
Used in a diverse range of industries to activate overheat alarms or fire suppression systems

- Most standard heat detectors held in stock in the UK for next-day delivery
- Expert advice on special and customised items
- Heat detectors are CE, UL and FM certified and housed assemblies ATEX and IECEx approved

Industrial Grade

Detect-a-Fire Heat Detector

Vertical mount with typical activation temperature between 60°C and 385°C



Also available as horizontal mount

Marine Grade

Detect-a-Fire Heat Detector

Suitable for offshore oil and gas with a specially treated surface to prevent corrosion



Vertical mount with typical activation temperature between 60°C and 385°C

Also available as horizontal mount

Customisable Options

- Flurocarbon Protective Coating**
Recommended for corrosive applications - like spray booths
- Contacts**
Detectors normally supplied with contacts that close on temperature rise. Also available as open on rise
- Wire Length**
Extended wires available on request

Unlike fixed temperature or rate-of-rise products, Fenwal heat detectors use rate compensation.

An outer shell made of a rapidly expanding alloy closely follows changes in the surrounding air temperature - while inner struts made of a slower expanding alloy are designed to follow temperature changes more slowly.

As a result, the system is only activated when both the shell and struts are heated together and the activation temperature is reached. This makes an accurate and reliable method of overheat detection in a diverse range of applications.

Housed Assemblies Protective Enclosures for Fenwal Heat Detectors

ATEX and IECEx Approved

Explosion Proof

Weatherproof



EExd version in marine grade alloy



EExem/Exia/UL version in glass reinforced plastic



EExd version



IP66-Rated

Intrinsically safe for use with oil and gas facilities and other hazardous areas



FOR FULL PRODUCT SPECIFICATIONS & SELECTOR TOOL, VISIT WWW.HAWCO.CO.UK/FENWAL

Standard Items

Normally Available for Next-Day Delivery

Industrial Grade: Vertical

Contacts Close on Temperature Rise

PART NUMBER	FENWAL PART NUMBER	ACTIVATION TEMPERATURE	COLOUR CODING	THREAD
318-100	27121-0-140	60°C (140°F)	Black	Single
318-101	27121-0-160	71°C (160°F)	Black	Single
318-102	27121-0-190	88°C (190°F)	White	Single
318-106	27121-0-210	99°C (210°F)	White	Single
318-103	27121-0-255	107°C (225°F)	White	Single
318-104	27121-0-275	135°C (275°F)	Blue	Single
318-105	27121-0-325	163°C (325°F)	Red	Single
318-107	27121-0-360	182°C (360°F)	Red	Single
318-108	27121-0-450	232°C (450°F)	Green	Single
318-109	27121-0-500	260°C (500°F)	Orange	Single
318-110	27121-0-600	316°C (600°F)	Orange	Single
318-111	27121-0-725	385°C (725°F)	Orange	Single
320-064	28021-5-275	135°C (275°F)	Blue	Double
320-067	28021-5-450	232°C (450°F)	Green	Double
320-071	28021-5-600	316°C (600°F)	Orange	Double
320-072	28021-5-725	385°C (725°F)	Orange	Double

Marine Grade: Vertical

Contacts Close on Temperature Rise

PART NUMBER	FENWAL PART NUMBER	ACTIVATION TEMPERATURE	COLOUR CODING	THREAD
320-050	27121-20-140	60°C (140°F)	Black	Single
320-051	27121-20-160	71°C (160°F)	Black	Single
320-052	27121-20-190	88°C (190°F)	White	Single
320-056	27121-20-210	99°C (210°F)	White	Single
320-053	27121-20-225	107°C (225°F)	White	Single
320-054	27121-20-275	135°C (275°F)	Blue	Single
320-055	27121-20-325	163°C (325°F)	Red	Single
320-048	27121-20-360	182°C (360°F)	Red	Single
320-057	27121-20-450	232°C (450°F)	Green	Single
320-058	27121-20-500	260°C (500°F)	Orange	Single
320-049	27121-20-600	316°C (600°F)	Orange	Single
320-069	27121-20-725	385°C (725°F)	Orange	Single

For details about all other options available, including enclosures, horizontal mounting, contacts to close on temperature rise and additional double thread models - or to discuss your application in detail - contact our OEM technical team.

GOT A PROJECT IN MIND? WE CAN HELP

Every day, our in-house design team advise OEM customers on the components they need.

We can source a suitable part from an existing design specification or set of technical drawings. Or we can investigate a number of different solutions based on original requirements.

If you want advice on how to improve your product or reduce its cost, discuss your project with us.



**REQUEST A TEST SAMPLE
FOR YOUR PRODUCT DESIGN**



**ARRANGE A MEETING
WITH A TECHNICAL EXPERT**



**SEND US YOUR
PROJECT SCOPE**

TO TALK TO OUR EXPERT TEAM,
CALL +44 (0)1483 869 070 OR
EMAIL SALES@HAWCO.CO.UK

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