Fennal DAF - DETECT-A-FIRE®



FEATURES

- Repeatable resets itself, nothing to replace, testable
- Rugged withstands shock and vibration
- Versatile offers various temperature settings
- Durable long lasting stainless steel shell
- Economical wide spacing, reduces installation cost
- Factory set and the internal contact area is hermetically sealed in stainless steel

APPLICATIONS

- Protection of schools, hospitals, public facilities, factories, offices, libraries, transformer stations, tanks, etc.
- Paint spray booths
- Industrial Dust Collectors
- Gas Compressors
- Range hoods
- Marine engine rooms

LICO HDL, "the" Heat-Detector, custom-made & ready to install

LICO



DESCRIPTION: DETECT-A-FIRE units are the "heart" of many Fire Protection Systems.

These highly reliable devices have been a standard of the industry for over 50 years. Many thousands of these units are now in use controlling the release of extinguishants such as clean agents, C02, water, or dry chemicals. In some systems the device is used as an ALARM device, to sense overheat or fire, and alert personnel. In other systems, it is used as a RELEASE device, to sense fire and actuate fire attack systems.

DETECT-A-FIRE units have met with wide acceptance because they are designed with RATE COMPENSATION. This provides a unique advantage over both fixed temperature and rate-of-rise types of detectors because only the DETECT-A-FIRE unit accurately senses the surrounding air temperature regardless of the fire growth rate. At precisely the predetermined danger point, the system is activated.

Fixed temperature detectors must be completely heated to alarm temperature and therefore a disastrous lag in time may occur with a fast rate fire. Rate-of-rise devices, on the other hand, are triggered by the rate of increase in ambient temperature and are subject to false alarms caused by harmless, transient thermal gradients such as the rush of warm air from process ovens.

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VERTICAL DETECT-A-FIRE-UNITS For Concealed and Exposed Wiring



000 units have a Type300 stainless steel sensing shell and a brass mounting head, 002, 020, 003 and 005 units are all Type 300

Model		Temperature Setting											
	<mark>ပ</mark>	60	71	88	99	107	135	165	187	232	260	315	385
x = Standardtype	۴	140	160	190	210	225	275	325	360	450	500	600	725
12-X27020-000		Х		Х									
12-X27020-001		Х											
12-X27021-000		Х		Х									
12-X27021-001		Х		Х									
12-X27120-000			Х	Х	Х	Х		Х					
12-X27121-000		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
12-X28021-005						Х				Х			

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DAF – DETECT-A-FIRE[®]



Available Standard Part numbers:

Single Thread units:



DAF - Detect-a-Fire / Heat & Fire-Detector

	e unit ns at Rise	4-wir N/O, Clos	Nominal Switching-	
Sensor Housing	stainless Steel	Sensor Housing	g Stainless Steel	temperature
Body Brass	Body Stainless	Body Brass	Body Stainless	
27120-000-140	27120-022-140	27121-000-140	27121-020-140	60℃ / 140℉
27120-000-160	27120-022-160	27121-000-160	27121-020-160	71℃ / 160℉
27120-000-190	27120-022-190	27121-000-190	27121-020-190	88℃ / 190℉
27120-000-210	27120-022-210	27121-000-210	27121-020-210	99℃ / 210℉
27120-000-225	27120-022-225	27121-000-225	27121-020-225	107℃ / 225℉
27120-000-275	27120-022-275	27121-000-275	27121-020-275	135℃ / 275℉
27120-000-325	27120-022-325	27121-000-325	27121-020-325	165℃ / 325℉
27120-000-360	27120-022-360	27121-000-360	27121-020-360	187℃ / 360℉
27120-000-450	27120-022-450	27121-000-450	27121-020-450	232℃ / 450℉
		27121-000-500	27121-000-500	260℃ / 500℉
		27121-000-600	27121-020-600	315℃ / 600℉
		27121-000-725	27121-020-725	385℃ / 725℉

Double Thread units:



Class 1, Group A requires full Stainless-steel Fenwal versions

DAF - Detect-a-Fire / Heat & Fire-Detector

	e unit ns at Rise	4-wir N/O, Clos	Nominal Switch-	
Sensor Housing	g Stainless Steel	Sensor Housing	g Stainless Steel	temperature
Body Brass	Body Stainless	Body Brass	Body Stainless	
	28020-003-140		28021-005-140	60℃ / 140℉
	28020-003-160		28021-005-160	71℃ / 160℉
	28020-003-190		28021-005-190	88℃ / 190℉
	28020-003-210		28021-005-210	99℃ / 210℉
	28020-003-225		28021-005-225	107℃ / 225℉
	28020-003-275		28021-005-275	135℃ / 275℉
	28020-003-325		28021-005-325	165℃ / 325℉
	28020-003-360		28021-005-360	187℃ / 360℉
	28020-003-450		28021-005-450	232℃ / 450℉
			28021-005-500	260℃ / 500℉
			28021-005-600	315℃ / 600℉
			28021-005-725	385℃ / 725℉

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Setting	Toleranz	Setting	Toleranz Color	
C	C	۴	♥ Code	
60	.+3,8/-4,5	140	.+7/-8. Black	
71	.+4,0/-4,3.	160	.+7/-8. Black	
88	.+4,0/-4,3.	190	.+7/-8. White	
99	.+4,0/-4,3.	210	.+7/-8. White	
107	.+4,1/-4,3	225	.+7/-8. White	
135	.+5,5/-5,5.	275	.+10/-10 Blue	
165	.+5,5/-5,5.	325	.+10/-10 Red	
187	.+5,5/-5,5.	360	.+10/-10 Red	
232	.+8,5/-8,1	450	.+15/-15 Green	
260	.+8,3/-8,3	500	.+15/-15 Orange	Э
315	.+11,6/-10,5	600	.+20/-20 Orange	Э
385	.+13,9/-13,9	725	.+25/-25 Orange	Э



Tolerances ex works prior to shipment: Typical System Wiring:

VERTICAL DETECT-A-FIRE-UNITS are UL, FM and Vds(*) approved:

Vertical detectors are designed for use in both "ordinary" or "hazardous" locations. For "ordinary" use, they may be mounted to any appropriate tight metal junction box (preferred: solid Alu) with 7/8" diameter opening by using 1/2-14 NPT mounting nuts or into a ½"-14NPT thread. The device may be wired in or out of conduit, depending on local preference and codes. Four lead-wires are provided on normally open vertical units (that close on temperature rise), per UL requirement, to facilitate supervision of system wiring. Instruments are Underwriters Laboratory and Underwriters Laboratory of Canada listed and Factory Mutual approved for hazardous locations, when mounted in a suitable fitting. (* expired)

DETECT-A-FIRE in Function:

The secret of the unit's sensitivity is in the design (Figure 1). The outer shell is made of a rapidly expanding alloy which closely follows changes in surrounding air temperature. The inner struts are made of a lower expanding alloy. Designed to resist thermal energy absorption and sealed inside the shell, the struts follow temperature changes more slowly. A slow rate fire (Figure 2) will heat the shell and struts together. At the "set point," the unit will trigger, actuating the alarm or releasing the extinguishant.

A transient rush of warm air up to 40° F/min. may expand the shell, but not enough to trigger the unit. By ignoring transient warm air excursions, the DETECT-A-FIRE unit virtually eliminates false alarms prevalent with rate-of-rise devices.

If a fast rate fire (Figure 3) starts, the shell will expand rapidly. The struts will close, actuating the alarm or releasing the agent. The faster the fire rate of growth, the sooner the DETECT-A-FIRE unit will react.



Agency Listings Rate Compensated DETECT-A-FIRE Unit

Fenwal DETECT-A-FIRE units are UL and ULC listed and FM approved as fire detection thermostats (close on temperature rise) and as releasing devices (open on temperature rise).

AGENCY	FILE NUMBER	LOCATION		
UL	S492	Ordinary		
UL	E19310	Hazardous		
ULC	CS341-E	Ordinary and Hazardous		
FM	J.I. OV3HO.AE	Hazardous		
FM 17302		Ordinary		
UL S2410		Ordinary (600 & 725 ° F)		
UL E89599		Hazardous (600 & 725°F)		

Rate of Rise:

TYPE OF DEVICE	UNDER 10 °F/MIN.	BETWEEN 10-40 °F/MIN	OVER 40 ° F/MIN
RATE Compensated DETECT-A-FIRE Unit	FIRST	FIRST	SECOND but at selected protection level
Fixed Temperature	SECOND	SECOND	THIRD
Rate-of-Rise	Will not operate unless fixed temperature supplement at 165° F is provided, then it is THIRD in sequence	Will not operate unless fixed temperature supplement at 165° F is provided, then it is THIRD in sequence	FIRST but may be a false alarm

Modifications

12-99202X-XXX, Extended lead wires, Series 12-X271XX and Series 12-X28XXX only. 12-992012-XXX, Fluorocarbon coating, Available on 27120-022, 27121-020, 28020-003, 28021-005 models only (500 °F max.). Minimum quantities apply.

Applications



Typical <u>ceiling installation</u> of a horizontal DETECT-A-FIRE model. Here it is used in combination with a sprinkler system to detect overheat and actuate an alarm.



Dust Cover Application

This is a typical application of DETECT-A-FIRE units used as a release device to actuate a complete fire suppression system. In this application DETECT-A-FIRE units are mounted in a Dust Collector to sense an overheat condition and release a clean agent extinguishant.

NOTES:

Construction: Stainless steel shell sensing element. Cold rolled steel mounting facility.

Mounting: DETECT-A-FIRE units are not position sensitive. Horizontal and vertical detectors refer to the most common mounting configuration for that unit. However, each type can be mounted either horizontally or vertically depending on the application and installation requirements.

Temperature rating:

Suggested setting a minimum of $100F^{\circ}$ above ambient (which is about $50 - 55^{\circ}$ C)

NOTE: Only units with stainless steel shell and head are approved for Class I, Group A locations.

NOTE A: Spacing shown are distances between units on smooth ceilings, the distances from partitions or walls

would be half that shown. Authority having LOCAL jurisdiction should be consulted before installation.

NOTE B: Temperature preset at factory only. Special settings available upon request. Consult LICO for additional information.

NOTE C: In applications where corrosion is suspect, care should be taken to protect the DETECT-A-FIRE unit to realize optimum performance and maximum life. Consult factory for suggestions.

NOTE D: Up to 375°F-#18 AWG Teflon insulated wire used on units. Above 375°F-#16 AWG TGGT insulated wire used on units.

NOTE E: Specifications subject to change without notice.

UL of Canada labelling available upon request.

Although incandescent lamps are considered resistive, their inrush current is 10-15 times their steady current. Do not exceed ratings.

Notes: - What cannot be installed:

- Damaged, painted, overheated, over torqued (more than 27 Newton), fallen (especially on floor) or any other treated, modified or damaged units.
- Any of this could change the factory setting or even damage the unit now or later, which may result in accidents, injury, loss, damage and even death.

- Never remove any paint, dirt, building debris or other things from the unit: exchange it!

- The above also voids any and any kind of warranty.
- Damaged or shifted units do not necessarily show the evidence outside, therefore:
- Installations at least have to be tested periodically.
- Periodic calibrations are recommended to confirm designed function.

- This information does not describe all details or variations on the equipment described, nor it provides solutions for all possible circumstances. Installation, use and maintenance have to be performed under sufficient failure exclusion considerations according to rules, laws, regulations or necessities of the planned function.

<u>Ordinary Locations:</u> The DETECT-A-FIRE Units are to be installed in grounded metallic junction boxes only. They are to be secured to the boxes using two lock nuts, one on either side of the mounting plate or into an NPT thread. DETECT-A-FIRE Units are not to be installed in non-metallic junction boxes.

<u>Hazardous Locations</u>: For Class I, Division 1 and 2 locations install the DETECT-A-FIRE Unit in a listed explosion-proof enclosure with a minimum thread engagement of five full turns. No non-conductive material is to be placed on the threaded joint of the DETECT-A-FIRE Unit or in the listed explosion-proof enclosure.

For Division 2 locations assure that a protective ground terminal is provided in the listed explosion-proof enclosure when flexible metal conduit is used.

<u>Non-Hazardous Outdoor Locations</u>: Mount the DETECT-A-FIRE in a Listed NEMA Type 3 outlet box, cover and conduit, with 1/2 - 14 NPT threads and a minimum thread engagement of 5 full turns. Use of pipe plugs with RTV silicone rubber sealant, a rubber gasket and self-sealing screws to attach the cover, and PTFE thread seal tape on the DETECT-A FIRE threads should be appropriate for outdoor applications and in accordance with the National Electric Code and/or local authority have jurisdiction.

Field Wiring Requirement: Field wiring must be capable of withstanding the maximum anticipated ambient temperature in the application.

Location: 1. DETECT-A-FIRE detectors are precision temperature sensors. They must be mounted in an area (normally a ceiling) so that: 1. The detector spacing complies with both system requirements and requirements of the agency having local jurisdiction.

2. The thermal air path to the shell is not obstructed. Spacing are usually 8-16 m Distances given are for between units on smooth ceilings. Distances from partitions or walls are half that shown. To assure that all spacing requirements are met, consult the authority having local jurisdiction.

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DAF, Detect-a-Fire: Temperatures, Tolerances & Spacings

SET	SETTING		RANCE	SPACING	COLOR		
۴F	0°	°F	0°	UL	ULC	FM	CODING
140	60	+7/-8	+3,8/-4,5	50/14	50/14	25/7	Black
160	71	+7/-8	+4,0/-4,3	25/7	25/7	25/7	Black
190	88	+7/-8	+4,0/-4,3	50/14	50/14	25/7	White
210	99	+7/-8	+4,0/-4,3	25/7	50/14	25/7	White
225	107	+7/-8	+4,1/-4,3	50/14	50/14	25/7	White
275	135	+-10	+5,5/-5,5	25/7	50/14	25/7	Blue
325	165	+-10	+5,5/-5,5	50/14	50/14	25/7	Red
360	187	+-10	+5,5/-5,5	25/7	50/14	25/7	Red
450	232	+-15	+8,5/-8,1	25/7	50/14	25/7	Green
600	315	+-20	+20/-20	N/A	50/14	25/7	Orange
725	385	+-25	+25/-25	N/A	50/14	25/7	Orange

Specifications subject to change without notice.

UL of Canada labelling available upon request.

Although incandescent lamps are considered resistive, their inrush current is 10-15 times their steady current. Do not exceed ratings.

- **NOTE:** Only units with stainless steel shell and head are approved for Class I, Group A locations.
- **NOTE A**: Spacings shown are distances between units on smooth ceilings, the distances from partitions or walls would be half that shown. Authority having LOCAL jurisdiction should be consulted before installation.
- **NOTE B:** Temperature preset at factory only. Special settings available upon request. Consult Fenwal Representative for additional information.
- **NOTE C:** In applications where corrosion is suspect, care should be taken to protect the DETECT-A-FIRE unit to realize optimum performance and maximum life. Consult factory for suggestions.
- **NOTE D:** Up to 375°F-#18 AWG Teflon insulated wire used on units. Above 375°F-#16 AWG TGGT insulated wire used on units.
- **NOTE E:** Per UL521 requirements low temperature exposure test is -22°F (-30°C)

HORIZONTAL DETECT-A-FIRE-UNITS for i.e. Residential areas, Saunas, Oven-rooms, Parking Houses

Horizontal detectors are designed for locations where appearance is a factor. The attractive, functional design lends physical protection of the unit while making it suitable for commercial, industrial, mercantile and public buildings, institutions and ships in nonhazardous locations (those classified as "ordinary" under the National Electric Code). Flush mounted units are designed to fit standard 4" octagonal electrical boxes and surface mounting units are designed to mount directly on ceilings or on 4" electrical junction boxes. Canadian Electrical Codes requires mounting only to an electrical junction box.

MOUNTING

DETECT-A-FIRE units are not position sensitive. Horizontal and vertical detectors refer to the most common mounting configuration for that unit. However, each type can be mounted either horizontally or vertically depending on the application and installation requirements.



Surface Mounting Unit for Exposed Wiring (-000)





12-X27020-000 12-X27021-000



SPECIFICATIONS

Flush Mounting Unit for Concealed Wiring (-001)





12-X27020-001 12-X27021-001

NOTE		Contract Operation on			Electrical Pating
Specifications subject to	Model No.	temperature rise	Function	Weight	Electrical Rating (resistive ONLY)
change without notice.	12-X27020-000	Opens	N/C	~ 170 g	5,0 Amps 125VAC
UL of Canada labelling available upon request.	12-X27020-001	Opens	N/C	~ 270 g	0,5Amps 125 VDC
Although incandescent lamps	12-X27021-000	Closes	N/O	~ 170 g	5,0 Amps 125VAC
are considered resistive, their inrush current is 10-15 times	12-X27021-001	Closes	N/O	~ 270 g	0,5Amps 125 VDC
their steady current. Do not					2,0 Amps 24 VDC
exceed ratings.					1,0 Amps 48 VDC

CONSTRUCTION

Stainless steel shell sensing element Cold rolled steel mounting facility.

COLOR Off-White finish.

TEMPERATURE RATING

(Suggested setting a minimum of 100 F above ambient) ~ about 50 - 55 ℃



HORIZONTAL DETECT-A-FIRE-UNITS



SELECTION:

Part number	Nominal Switching	Function	Mounting	Funktion	Mantaga
Part number	temperature	Function	Mounting	FUNKTION	Montage
27020-000-140	60°C / 140°F	onone at rica	Surface mount	Öffner	Einbau
27020-000-140	71°C / 160°F	opens at rise opens at rise	Surface mount	Öffner	Einbau
27020-000-180	71 C / 160 F 88°C / 190°F	opens at rise	Surface mount	Öffner	Einbau Einbau
	•	•		Öffner	
27020-000-225	107°C / 225°F	opens at rise	Surface mount		Einbau
27020-000-275	135°C / 275°F	opens at rise	Surface mount	Öffner	Einbau
27020-000-325	165°C / 325°F	opens at rise	Surface mount	Öffner	Einbau
27021-000-140	60°C / 140°F	closes at rise	Surface mount	Schliesser	Einbau
27021-000-160	71°C / 160°F	closes at rise	Surface mount	Schliesser	Einbau
27021-000-190	88°C / 190°F	closes at rise	Surface mount	Schliesser	Einbau
27021-000-225	107°C / 225°F	closes at rise	Surface mount	Schliesser	Einbau
27021-000-275	135°C / 275°F	closes at rise	Surface mount	Schliesser	Einbau
27021-000-325	165°C / 325°F	closes at rise	Surface mount	Schliesser	Einbau
27020-001-140	60°C / 140°F	opens at rise	Flush mount	Öffner	Aufbau
27020-001-160	71°C / 160°F	opens at rise	Flush mount	Öffner	Aufbau
27020-001-190	88°C / 190°F	opens at rise	Flush mount	Öffner	Aufbau
27020-001-225	107°C / 225°F	opens at rise	Flush mount	Öffner	Aufbau
27020-001-275	135°C / 275°F	opens at rise	Flush mount	Öffner	Aufbau
27020-001-325	165°C / 325°F	opens at rise	Flush mount	Öffner	Aufbau
27021-001-140	60°C / 140°F	closes at rise	Flush mount	Schliesser	Aufbau
27021-001-160	71°C / 160°F	closes at rise	Flush mount	Schliesser	Aufbau
27021-001-190	88°C / 190°F	closes at rise	Flush mount	Schliesser	Aufbau
27021-001-225	107°C / 225°F	closes at rise	Flush mount	Schliesser	Aufbau
27021-001-275	135°C / 275°F	closes at rise	Flush mount	Schliesser	Aufbau
27021-001-325	165°C / 325°F	closes at rise	Flush mount	Schliesser	Aufbau

LOCATION

DETECT-A-FIRE® Units are precision temperature sensors.

They must be mounted in an area (normally a ceiling) so that:

- 1. The detector spacing complies with both system requirements and requirements of the agency having local jurisdiction.
- 2. The thermal air path to the shell is not obstructed.
- Spacing per UL, FM, and UL of Canada are shown in Table 1. Distances given are for between units on smooth ceilings. Distances from partitions or walls are half that shown. To assure that all spacing requirements are met, consult the authority having local jurisdiction.

MOUNTING

Detect-A-Fire units are not position sensitive. Horizontal and vertical detectors refer to the most common mounting configuration for that unit. However, each type can be mounted either horizontally or vertically depending on the application and installation requirements.

Γ	°F SETTING		SPACINGS (in feet)			Horizontal DETECT-A-FIRE Units,
	AND TOLERANCE	COLOR CODING	U®L	< A	Æ	series 27020 & 27021, are not suitable for use in hazardous
	140 +7°/-8°	Black	50	25	50	locations.
	160 +7°/-8°	Black	25	25	25	LICO's HDL3 - HDL6 series
	190 +7°/-8°	White	50	25	50	maybe used in these areas.
	225 +7°/-8°	White	25	25	50	
	275 ± 10°	Blue	25	25	50	
	$325 \pm 10^{\circ}$	Red	50	25	50	

INSTALLATION

Surface Mount Units: (Series 27010-001 & 27021-001)

These detectors are provided with a surface mount adaptor which may be mounted on a ceiling or to an outlet box. However, if the adaptor is direct ceiling mounted, CIRCUIT VOLTAGE MUST BE LIMITED TO 30 VOLTS.

The Canadian Electrical Code, Part 1, requires that these devices be installed, mounted to an approved outlet box and connected to Class 1 wiring. Surface mount units shall be used only in this manner for Canadian approval.

For direct ceiling mount, proceed as follows:

- 1. Four knockouts are located on the side of the surface mount adaptor. Remove appropriate knockouts and install supplied rubber grommets.
- Mount adaptor to solid ceiling surface through slotted holes in adaptor mounting brackets. Supplied insulator gasket should be placed between ceiling and adaptor. Adaptor may be rotated to position detector.
- 3. Run system wiring through rubber grommets and connect to terminals on detector per Figure 3 observing applicable electrical codes.
- 4. Mount detector to adaptor with two #8-32 screws supplied.

Continue next page...

For optional outlet box mount, proceed as follows:

- 1. Bend the mounting brackets on the supplied adaptor to fit standard 4-inch outlet box.
- 2. Mount adaptor to outlet box through two slotted holes in adaptor mounting brackets. Adaptor may be rotated to position detector.
- 3. Connect system wiring to terminals on detector per Figure 3 observing applicable electrical codes.
- 4. Mount detector to adaptor with two #8-32 screws supplied.

Flush Mount Units: Series 27020-000 & 27021-000

- 1. It is recommended that a standard 4-inch outlet box be used to mount the detector. Care should be taken that a neat 4-inch diameter hole be cut in ceiling to allow mounting clearance for detector. An oversized or ragged hole may show around the mounted unit.
- 2. Attach supplied flush mount adaptor to outlet box. Adaptor may be rotated in screw slots to position detectors as desired.
- 3. Connect system wiring to terminals on detector per Figure 3 observing applicable electrical codes.
- 4. Mount detector to adaptor with two #8-32 screws supplied.

Surface Mount units: Flush Mount Units: 3-INCH OCTAGONAL 4-INCHOCTAGONAL OUTLET BOX OUTLET BOX (OPTIONAL) INSULATOR FLUSH MOUNT (SUPPLIED) ADAPTOR (SUPPLIED) SURFACE MOUNT ADAPTOR DETECTOR (SUPPLIED) DETECTOR Figure 2

Figure 1



- 1. In order to function properly, the shell of the unit must remain free from paint, grease, oil, etc. Should such a build-up occur, do not, under any circumstances, attempt to remove it. Replace the unit.
- Detectors mounted in an area subject to physical abuse or damage, other than above, must be suitably protected without obstructing the thermal air path to the unit.
- 3. Do not install the unit where the shell would be physically damaged by sand, grain, rocks, etc.
- 4. Any detector that has been abused or damaged must be replaced.
- 5. Consult the factory for special precautions necessary for outdoor use.

ANY OF THE ABOVE COULD CHANGE THE FACTORY TEMPERATURE SETTING, WHICH MAY RESULT IN PROPERTY DAMAGEAND/OR PERSONAL INJURY OR DEATH.

IT IS POSSIBLE FOR A UNIT TO HAVE BEEN ABUSED OR DAMAGED AND NOT DISPLAY ANY OUTWARD INDICATION OF THE DAMAGE. ALL UNITS SHOULD BE TESTED PERIODICALLY INACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS (72E) OR THE AGENCY HAVING LOCAL JURISDICTION.

HDL1 – HDL6 Heat- Overheat- & Fire Detectors, Boxes, wiring blocks & Cable glands: 😥 Exe & Exd





www.prevent-a-fire.eu - www.fenwal-direct.eu