

High Performance Optical Smoke



These detectors react to the whole range of fire products from slow smouldering fires, producing visible particles to open flaming fires producing large numbers of very hot smaller sized aerosols. It combines optical and heat detector technology to detect clear burning fire products which hitherto could only be easily detected by ion-chamber detectors. For normal ambient conditions, the high performance optical detector behaves as a normal optical detector. Only when a rapid rise in temperature is detected does the sensitivity of the

detector increase and the presence of smoke will confirm a fire condition. The HPO will not operate on a rate of rise of temperature alone.

Datasheet - Product Code PSF123 Manual - Vol01C-02-D2 "Detectors Fire Manual"

Product Codes

516.600.002.A		
Approval	Branded	Model
LPCB	ADT	601PH
516.600.002.T		
Approval	Branded	Model
LPCB	Thorn	601PH
516.600.002.Y		
Approval	Branded	Model
LPCB	Tyco	601PH
516.600.202		
Approval	Branded	Model
Marine	Tyco	601PH-M

Enhanced Carbon Monoxide Fire



The CO fire detector is a unique general purpose fire detector which provides very early warning of slow smouldering fires. Ideal for sleeping risks the CO fire detector is also well suited to many applications where heat detection is insufficient but smoke detection causes false alarms. As CO travels more freely than smoke the position of CO fire detectors is more flexible.

This feature is particularly useful in large complex structures such as atria and warehouses, where position of smoke detectors is difficult.

Datasheet - Product Code PSF123 Manual - Vol01C-02-D3 "Detectors Fire Manual"

Product Codes

516.600.004.A		
Approval	Branded	Model
LPCB	ADT	601CH
516.600.004.T		
Approval	Branded	Model
LPCB	Thorn	601CH
516.600.004.Y		
Approval	Branded	Model
LPCB	Tyco	601CH
516.600.204		
Approval	Branded	Model
Marine	Tyco	601CH-M

Optical Smoke



These detectors are capable of detecting the visible smoke produced by materials which smoulder or burn slowly, i.e. soft furnishings, plastic foam etc.; or 'smoke' produced by overheated but unburnt PVC. These detectors are particularly suitable for general applications and areas where cable overheating may occur e.g. electrical services areas. The novel design of the asymmetrical sampling chamber and signal processing techniques stop unwanted alarms caused by very small insects. i.e.

thrips. Smoke entering the sampling chamber scatters the infra-red light pulses onto a photo-diode. These pulses are converted to an electrical signal which is compared against a preset alarm level.

Datasheet - Product Code PSF123 Manual - Vol01C-02-D6 "Detectors Fire Manual"

Product Codes

516.600.001.A		
Approval	Branded	Model
LPCB	ADT	601P
516.600.001.T		
Approval	Branded	Model
LPCB	Thorn	601P
516.600.001.Y		
Approval	Branded	Model
LPCB	Tyco	601P
516.600.201		
Approval	Branded	Model
Marine	Tyco	601P-M

Heat



These detectors use two networked thermistors in a bridge configuration to provide a fast response, that depends both on absolute temperature and notes the change of temperature. The rate of rise/fixed temperature heat detectors can be used in areas where smoke sensors are unsuitable due to environmental conditions (smoke, dust etc.). Such areas include kitchens, locker rooms, canteens, garages, loading bays etc.

Rate of Rise

Product Codes		
516.600.003.A		
Approval	Branded	Model
LPCB	ADT	601H-R
516.600.003.T		
Approval	Branded	Model
LPCB	Thorn	601H-R
516.600.003.Y		
Approval	Branded	Model
LPCB	Tyco	601H-R
516.600.203		
Approval	Branded	Model
Marine	Tyco	601H-R-M

Fixed Temperature 60°C

Product Code	
516.600.214	
Approval	Model
LPCB /Marine	611H-F

Fixed Temperature 90°C

Product Code	
516.600.033	
Approval	Model
LPCB/Marine	631H-F

Datasheet - Product Code PSF123 Manual - Vol01C-02-D5 "Detectors Fire Manual"