

## Series 60 Intrinsically Safe Detector Range

The Series 60 Intrinsically Safe Detector Range incorporates all the benefits of the standard range, but has been developed specifically for use in hazardous areas. The detectors must be used in a system, which includes suitable safety barriers.

### Parts Nos

IS Ionisation	23900-K076	IS Integrating Ionisation	23900-K077
IS Heat Detector Grade 1	23900-K078	IS Heat Detector Range 1	23900-K080
IS Heat Detector Grade 2	23900-K079	IS Heat Detector Range 2	23900-K081
IS Heat Detector Grade 3	23900-K051	IS Detector Base	23900-K052

## Series 60A Combination Detector

In addition to providing rapid detection of smoke-producing fires, the Series 60A combination detector responds quickly to flaming fires that produce little or no smoke. As the smoke and heat detection circuits operate independently, their outputs being 'OR' connected, the combination detector provides fire detection performance equivalent to a smoke detector and a 58°C heat detector sited at the same location.

Part No 23900-K033

## Series 60 Bases

The base is designed to enable detectors to be plugged in without need for force - particularly useful when fitting to suspended ceilings. The base also incorporates a "one way only" fit. All series 60 bases are lockable. The detectors are polarity insensitive and bases are easy to wire with an earth connector. The standard base contains no electronic parts, which could be damaged during installation.

Standard Series 60 base - Part No 23902-H03

For conventional systems that are designed to operate correctly when one or more detector heads have been removed, a base fitted with a diode on Line 1 is available.

Diode Base - Part No 23902-H09

The relay base allows operation of auxiliary item(s) via a relay contact in the detector base, which operates, for the individual detector alarm condition.

Relay Base - Part No 23902-H10

Zener Base - Part No 23900-K066

Low Profile Relay Base - Part No 23900-K068

## Ancillary Items

The air sampling unit allows the Series 60 detector to be used to monitor ventilation ducts.

Air Sampling Unit - Part No 23902-H11

The remote indicator unit allows repeat indication of the alarm LED on a detector in a hidden location, eg ceiling void.

Remote Indicator - Part No 23902-K011

## Series 60 Specification Summary

Typical at 23°C & 24 VDC unless otherwise stated	Ionisation (Std)	Ionisation (Integrating)	Optical	Gd1 Heat 60°C	Gd2 Heat 75°C	Gd3 Heat 80°C	Range 1 80°C	Range 2 100°C
Detector Part No	23900-K031	23900-K032	23900-K034	23900-K035	23900-K036	23900-K037	23900-K08	23900-K039
Base Part No	23902-H08	23902-H08	23902-H08	23902-H08	23902-H08	23902-H08	23902-H08	23902-H08
Size of Detector (HxHxDia (mm))	42X100	42X100	42X100	42X100	42X100	42X100	42X100	42X100
Size of Detector in Base (HxHxDia (mm))	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100
Supply Voltage	17-28VDC	17-28VDC	17-28VDC	17-28VDC	17-28VDC	17-28VDC	17-28VDC	17-28VDC
Maximum Quiescent current at 24v	45µA	45µA	45µA	53µA	53µA	53µA	53µA	53µA
Alarm Current at 24v	52mA	52mA	52mA	52mA	52mA	52mA	52mA	52mA
Alarm Indication	Red LED	Red LED	Clear LED Red Alarm	Red LED	Red LED	Red LED	Red LED	Red LED
Normal Operating Temperature (no icing)	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +105°C	-20°C to +105°C	-20°C to +105°C	-20°C to +105°C	-20°C to +105°C
Humidity (no condensation)	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%
Max wind (continuous)	10m/s	10m/s	Not affected	Not affected	Not affected	Not affected	Not affected	Not affected
Remote Output Characteristics	900 ohms in series with a 3V drop (suitable for connecting one LED)							

Series 60 smoke and heat detectors have been designed to comply with EN54 (BS5445), which is the European standard for fire protection systems components. The range holds approvals worldwide, including LPC in the UK and VdS in Germany.



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LICO Electronics GmbH  
Klederinger Str. 31  
A-2320 Kledering  
Tel +43 1 706 43 000  
Fax +43 1 706 41 31  
email: office@lico.at  
www.mess-regeltechnik.at