



## Installation Guide

### Intrinsically Safe (I.S) Products

### Compliant with ATEX 94/9/EC

#### General

All Apollo I.S devices are intended for use in hazardous area systems complying with the European ATEX directive 94/9/EC that deals with products used in hazardous areas. All such systems must incorporate a certified safety barrier or interface to limit the voltage and power to the circuit. Information on suitable barriers and interfaces can be obtained from Apollo.

These notes are intended to supplement the mandatory requirements of the ATEX directive or other applicable regulations. They should not be taken as full instructions for the design and installation of intrinsically safe systems. These activities must be carried out only by qualified personnel.

#### Certification

The XP95 I.S range of detectors and manual call points (MCPs), and the Series 60 I.S range of detectors, are BASEEFA certified as components. Their component certification allows them to be used in certified intrinsically safe systems.

Each product range is covered by a system certificate issued by BASEEFA in Apollo's name. Systems installed according to Apollo system drawing will be covered by the system certification. The use of barriers, interfaces, or other components not included in the system drawing will invalidate the certification. The relevant system drawings are as follows:

XP95 I.S systems	Z20982
Series 60 I.S systems	Z20983

The system certificate number must be marked on the installed system, preferably on the barrier or interface housing.

The ATEX EC type examination certificate numbers applicable to Apollo I.S devices are given in the table below:

### **Apollo System Certificate**

BAS02ATEX 1289	For XP95 I.S detectors
BAS02ATEX 1290	For XP95 I.S call points
BAS02ATEX 1288	For Series 60 I.S detectors

Copies of all component and system certificates, and system drawings are available from Apollo on request.

#### **Installation of Detectors**

Detectors must be fitted to certified I.S bases. Use of any other bases will invalidate the detector certification.

The bases must be installed in such a way that all wiring is protected to at least IP20. This requirement will be met if bases are flush mounted. If bases are mounted on BESA boxes, or other boxes having a diameter less than 85mm, they should be fitted with Series 60/XP95 backplates (Apollo part number 45681-233).

Remote LED indicators may be fitted to Series 60 I.S or to XP95. The LEDs need not be certified but should be either 3mm or 5mm diameter types. The LED terminations must be protected to at least IP20 and the circuits must be segregated from other circuits.

#### **Installation of Manual Call Points**

Manual call points must be installed to comply with the requirements of the ATEX directive or another applicable code of regulations. All unused cable entry ports must be sealed using suitable stopping plugs to give the required level of ingress protection.

#### **Further Information**

For further information see Apollo publications PP2028 and PP1095 for the Series 60 and XP95 ranges respectively