

The ZP786Ex-1 intrinsically safe callpoint, provides a manual means of raising an alarm within areas made hazardous by the presence of explosive gasses.

Intrinsic safety is a technique for ensuring that items of electrical equipment and their associated wiring are incapable of releasing sufficient electrical and thermal energy to cause ignition, when installed within areas where hazardous concentrations of explosive gasses may permanently, or from time to time, be present.

Wiring to an intrinsically safe area is completed by teeing off from the standard ZP loop, via a zenner barrier unit and line voltage conditioner.

Up to a maximum of eight ZP intrinsically safe devices can be connected to each zenner barrier. Each line voltage conditioner contains switch settings, in order to provide a block of eight addresses, enabling the control panel to identify each IS component separately.

Devices must be connected using either MICC (with a continuous insulated outer sheath) or appropriate soft skinned screened cable. Maximum line length out from the zenner barrier is 300 metres. It is recommended that line isolators be installed on either side of each IS tee off from the ZP loop.

The callpoint is operated by breaking a frangible glass element, allowing an internal micro switch to move from an open, to a closed circuit position. Operated by finger pressure, the glass has a protective clear vinyl coating on the front surface to prevent operator injury and to inhibit the release of loose fragments as the glass is broken.

ZP786Ex-1 callpoints are designed for surface mounting. System testing is carried out by using a special test key which is inserted into a slot in the base of the callpoint moulding, the glass element drops allowing the device to operate.

Rated at IP65 the moulding is constructed of ABS plastic and intended for indoor applications. A red LED indicator is prominently positioned on the front of the moulding, which flashes when the unit is operated.

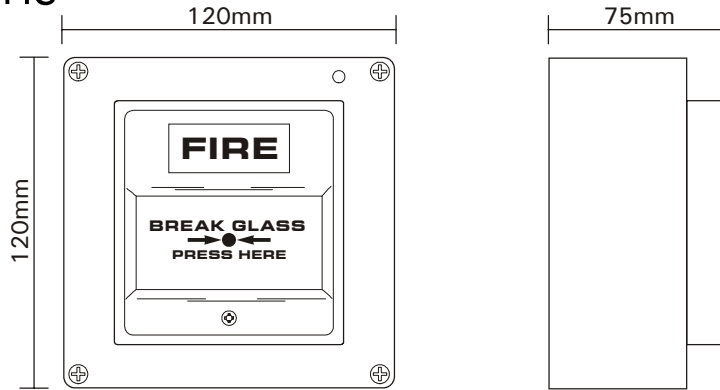


ZP786Ex-1

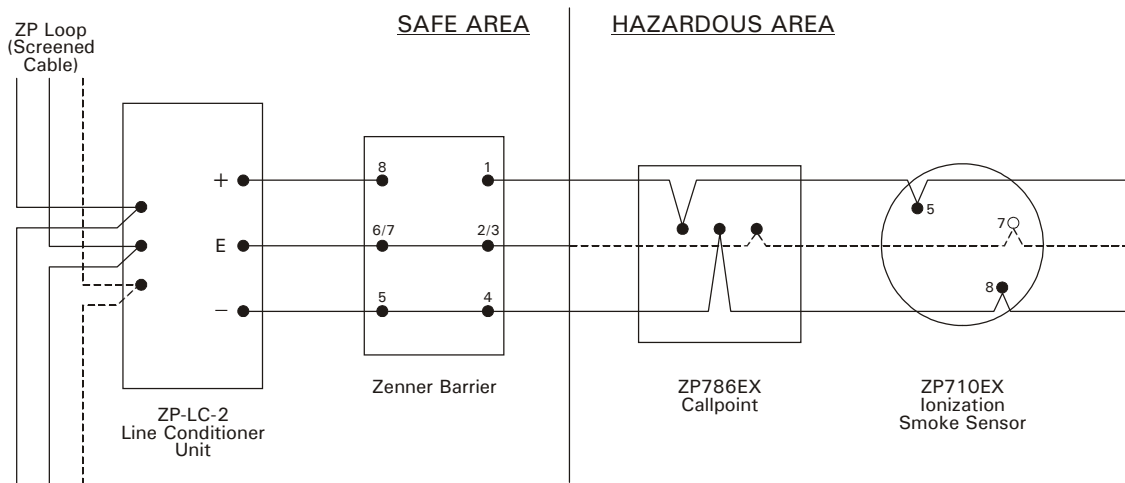
Intrinsically Safe Addressable Manual Call Point

- **Complies with EN 50020**
- **SIRA approved**
- **Addressable**
- **System test facility via test key**
- **Operated by finger pressure**

Dimensions



Wiring Schematic



Note: Typical Zenner Banner connections. Terminals shown for - Pepperl & Fuchs type Z967 dual A.C. Star connected shunt Zenner diode barrier.

Specifications

Model No.	Part No.	Specification	Description	Performance
ZP786Ex-1	19610	EN50020	Intrinsically safe addressable callpoint	3 sec alarm response in ZP systems
Approval	SIRA			Current (alarm) 700 uA
Compatibility	All ZP analogue addressable systems			Operating principle Encapsulated micro switch
Wiring	MICC or suitable screened cable-spurred from ZP loop via zenner barrier and line voltage conditioner			Environmental:
Intrinsically safe details (with zenner barrier)				Application Indoor installation
Specification	EN50020			EN60529 rating IP42
Classification	Eex ia (constant hazard)			Temp range -10°C to +75°C
Gas Group	∞C (hydrogen)			Humidity range 0% to 95% RH (non condensing)
Temp.Rating	T6 (85°C)			EMC CE marked (EEC89/336)
Monitoring:	Open and short circuit wiring faults			Construction:
Indication	Alarm LED (red)			Material Moulded ABS
Operating voltage	12 to 18 volts DC			Dimensions 120mm(H) x 120mm(W) x 75mm(D) overall
Current (quiescent)	600 uA			Colour Red
				Weight 125g

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