

ZP7-IB-P Isolator Base Installation Sheet

Description

The ZP7-IB-P is an isolator base for ZP detectors which, when fitted to an ZP addressable loop, enables sections of the line to be isolated under fault conditions. See Table 1.

Table 1: Model

Model	Description
ZP7-IB-P	Isolator Base, Polar White

Software control causes sections of the loop between isolators to be taken off-line in the case of short-circuit lines, and causes the loop to feed and detect from both sides of an open-circuit break. Wiring to the ZP7-IB-P can be configured for operational or installation test operation, by means of a link connector.

Application

In a class A circuit, a short will be isolated between the two isolator bases located electrically closest to the short as shown in the two configurations in Figure 1 and Figure 2.

Figure 1: Class A configuration

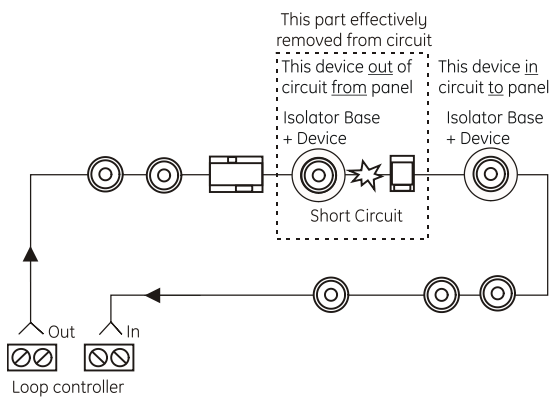
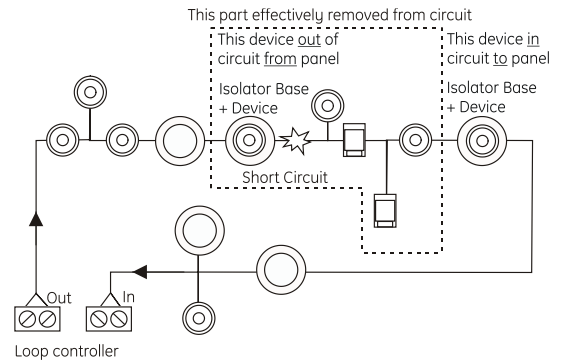


Figure 2: Class A configuration with T-taps



Installation

Two screw holes for screws f5 mm max. with slots shouldered for screw head f9 mm max. are provided for mounting the isolator base to the ceiling, wall or conduit box, see Figure 3.

Wiring

Figure 3 shows the wiring for the isolator base clips, and Table 2 provides the clip designations.

Figure 3: Isolation Base loop wiring

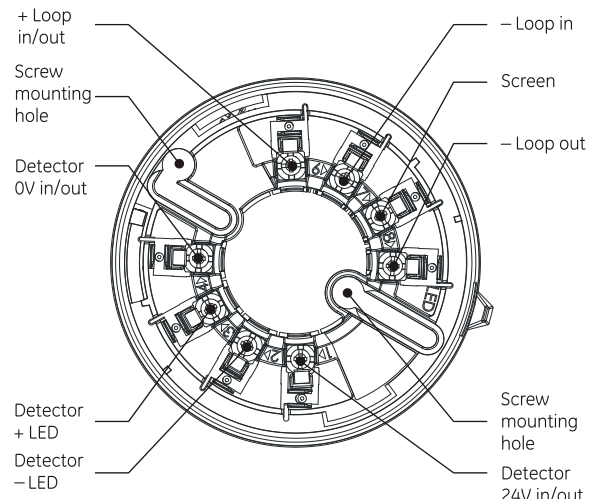


Table 2: Isolator Base clip designations

Clip	Designation
1	Detector +24 V in/out
2	Detector - LED
3	Detector + LED
4	Detector 0 V in/out
5	+ Loop in/out

Clip	Designation
6	– Loop in
7	Screen
8	– Loop out

Testing

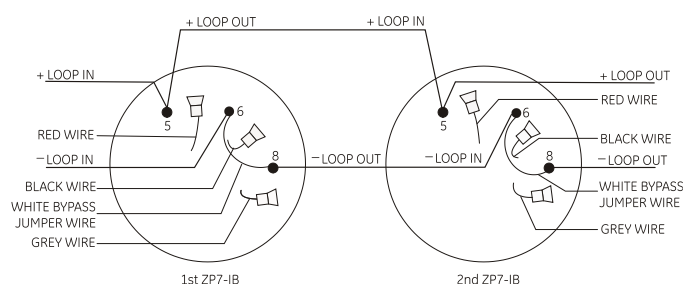
ZP Line test mode

Caution: The red, black, and grey wires on clips 5, 6, and 8 respectively, must *not* be connected for this test.

The isolator base is supplied with a white bypass jumper wire for high voltage insulation testing of the loop wiring. This wire is connected between clip 6 (loop in) and clip 8 (loop out).

Figure 4 shows the + Loop In and – Loop Out connected to the isolator base. Carry out the insulation test with the red, black and grey wires of the isolator base *not* connected as shown below.

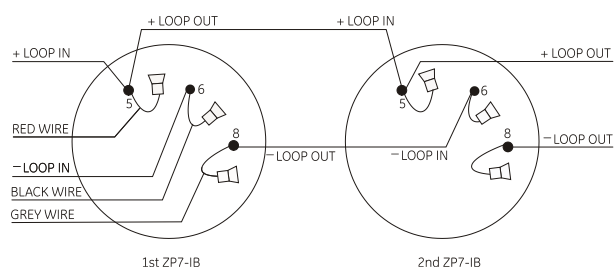
Figure 4: ZP Line test wiring diagram



Operational wiring diagram

After testing, wire the isolator base for operation by connecting the red wire to clip 5, the black wire to clip 6 and the grey wire to clip 8 as shown in Figure 5. Remove the white bypass jumper wire between clip 6 (loop in) and clip 8 (loop out).

Figure 5: Operational wiring diagram




Specifications

Application	Indoor use
Compatibility	All ZP addressable systems
Mounting	Surface mount
Current consumption:	
Quiescent	1.1 mA
Fault	0.85 mA

Addressing method	Soft addressed by panel software (does not require an address number)
Wiring	2 core "Class-A" return loop Total loop=75 ohm max. Between isolators=18 ohm max.
Monitoring	Loop wiring for short circuit faults
Indication	LED
Operating environment	
Temperature	-10 to +55°C
Relative humidity	10 to 95% , noncondensing
Isolators per line	16 max
Maximum impedance between:	
Panel and 1 isolator	18 ohm
Isolator and next isolator	18 ohm
Internal resistance of isolator when on	<0.25 ohm

Regulatory information

This section includes both regulatory information and a summary on the declared performance according to the Construction Products Regulation 305/2011. For detailed information refer to the product Declaration of Performance.

Certification	
Certification body	0370
Declaration of Performance number	360-5211-0299
Year of first CE marking	10
Product Identification	ZP7-IB-P
Intended use	See DoP point 3
Essential characteristics	See DoP point 9
Manufacturer	Gulf Security Technology Co.,Ltd 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei Province, China 066004 Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands

European Union directives 1999/5/EC (R&TTE directive): Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



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