



## NGA-IDB

### Detector Base with Loop Isolator

NGA-IDB has been designed to provide protection against short circuit faults on Nortech Addressable Fire Alarm system. The isolator protects the loop in the event of a short circuit by disconnecting the section of the loop where the short circuit has occurred. When the fault has been rectified, the isolating circuitry reconnects the affected part of the System.

The Yellow LED is provided to indicate there is a short circuit in the loop. NGA-IDB is polarity sensitive and can be damaged if connected with reverse polarity. Please be sure to note the polarity indicated at the wiring terminals. Up to 32 devices may be fitted between each isolator (EN54) or 20 devices for BS5839 compliance.

Under normal conditions the NGA-IDB provides a low resistance of 0.1 mOhm in either direction. When a short circuit condition is detected the isolator switches to the open state thereby isolating the "Loop IN" and "Loop OUT" lines. The isolated section is tested every 3 seconds with a voltage pulse and is automatically reconnected when the load resistance is greater than 175 Ohms.

#### Specifications

LOOP OPERATING VOLTAGE	17 V to 40 V
LOOP CURRENT - QUIESCENT	0.190 mA @ 28 V DC nominal
LOOP CURRENT - ISOLATED LED ON	2.8 mA @ 28 V DC nominal
MAX. CABLE SIZE	2.5 mm <sup>2</sup>
MAX. HUMIDITY	95% RH Non-Condensing
DIMENSIONS	100 (D) x 40 (H) mm
WEIGHT	90 g
OPERATING TEMPERATURE	0°C to +50°C