

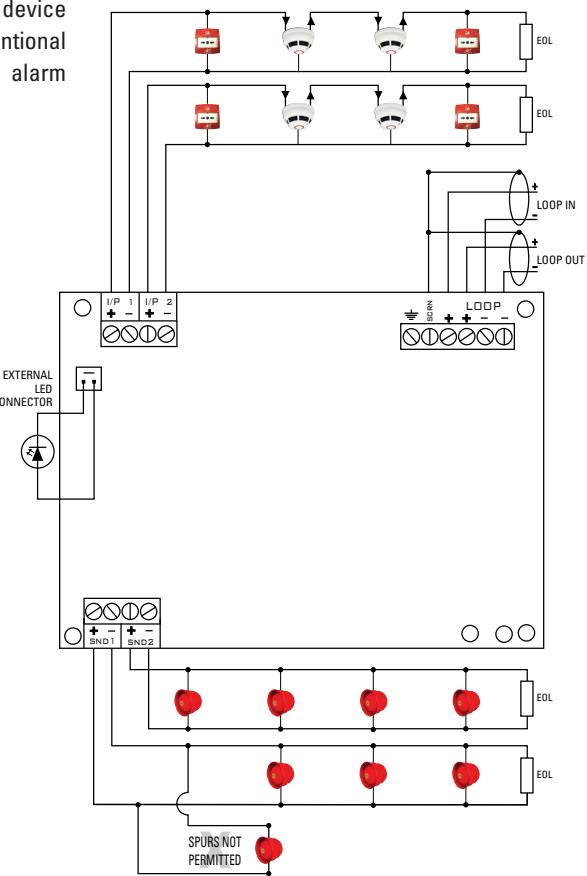
6000/2LPZA Loop Powered Dual Zone Alarm Interface

- 2 x Monitored Detection Zones
- 2 x Monitored Alarm Outputs
- Loop Powered
- DIN Rail Mounted
- Integral Short Circuit Isolator
- Protec Algo-Tec 6000 Protocol



The Protec 2 way loop zone alarm interface is a loop powered input / output device providing 2 local zones of conventional detectors and 2 local monitored alarm outputs.

Wiring Diagram



Technical Specification

Loop protocol	Protec Algo-tec™ 6000 MX1
Loop isolator fitted	Yes, on board (consult Protec DEL2110 for details)
Loop voltage range	18 to 28V peak loop
Number of loop addresses used	2 maximum, user and build configurable
Environmental operational limits	-10 to 50°C (maximum 95% RH no condensation or icing)
Loop quiescent current (24V loop peak)	1.6mA + zone end of line current + zone loading
Loop alarm current (average)	15mA + zone end of line current + zone loading + sounder current (max. 50mA ± 2mA)
Zone short circuit current (24V)	26mA peak ± 2mA
Zone end of line requirements (I/P 1 & I/P 2)	Resistive - 8.2k ±5% ¼W, Capacitive - 100µF ±20% in series with 22Ω ±5% ¼W
Input cabling requirements	Maximum cable resistance 6Ω per conductor Maximum cable capacitance 0.2µF between cable conductors
Zone quiescent current	500µA maximum (10 Protec 3000 detectors per zone)
Zone reset time	2 seconds, with active zone discharge
Manual Call Point requirements	Must be fitted with a series 330Ω or 180Ω resistor
Zone short circuit threshold	Below 5% of supply voltage
Zone fire threshold	Below 70% of supply voltage
Zone resistive open circuit threshold	Above 92% of supply voltage

Sounders supported	Protec 3000 series
Sounder circuit end of line	10kΩ ¼W ±5%
Sounder circuit cable requirements	Maximum cable resistance depends on Volt drop calculations Maximum cable capacitance 0.1µF between cable conductors.
Sounder short circuit fault threshold	Below 2kΩ
Sounder open circuit fault threshold	Above 18kΩ
Sounder current limit (maximum)	50mA ± 2mA
Weight	245g (including din rail housing, no backbox, 4 way build)
LED Indicator	Use only high brightness LED (Protec stock code: NK 02-676-46)

