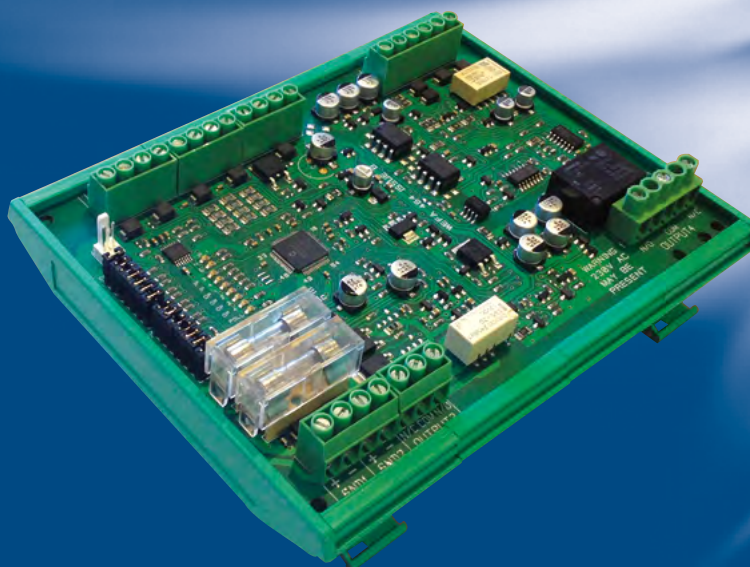


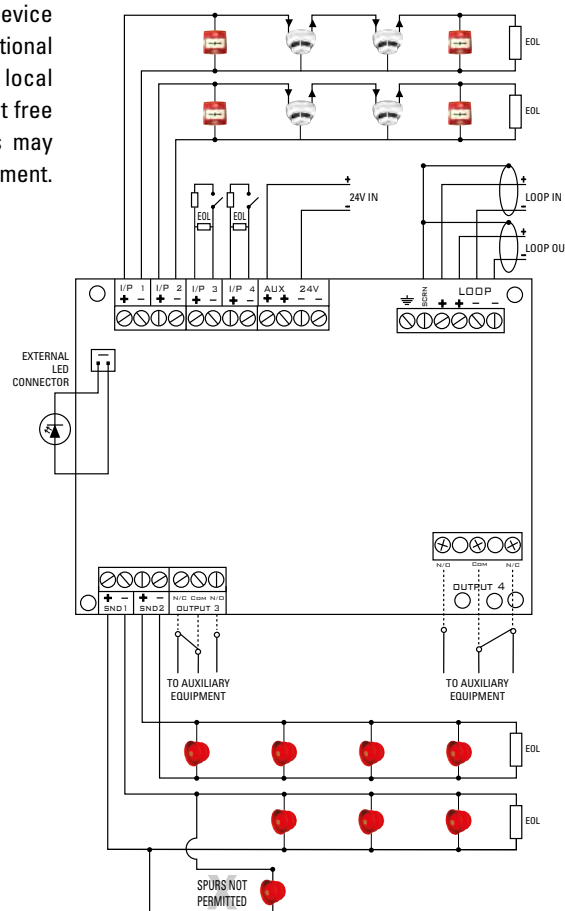
## 6000/4IO Auxiliary Powered 4 Way Zone Alarm I/O Interface

- 2 x Monitored Detection Zones
- 2 x Monitored Inputs
- 2 x Monitored Alarm Outputs
- 2 x Volt Free Changeover Contacts
- Auxiliary 24vDC Powered
- DIN Rail Mounted
- Integral Short Circuit Isolator
- Protec Algo-Tec 6000 Protocol



The Protec 4 way input/output interface is a auxiliary powered input / output device providing 2 local zones of conventional detectors, 2 monitored inputs, 2 local monitored alarm outputs and two volt free changeover contacts. The contacts may be used to connect to ancillary equipment.

### Wiring Diagram



## Technical Specification

<b>Loop protocol</b>	Protec Algo-tec™ 6000 MX1
<b>Loop isolator fitted</b>	Yes, on board (consult Protec DEL2110 for details)
<b>Loop voltage range</b>	18 to 28V peak loop
<b>Number of loop addresses used</b>	4 maximum, user and build configurable
<b>24V Auxiliary input voltage range</b>	18 to 28V dc
<b>Environmental operational limits</b>	-10 to 50°C (maximum 95% RH no condensation or icing)
<b>Loop quiescent current (24V loop peak)</b>	0.6mA
<b>Loop alarm current (average)</b>	0.6mA
<b>Zone short circuit current (24V)</b>	26mA peak $\pm$ 2mA
<b>Zone end of line requirements (I/P 1 &amp; I/P 2)</b>	Resistive - 8.2k $\pm$ 5% ¼W, Capacitive - 100µ F $\pm$ 20% in series with 22Ω $\pm$ 5% ¼W
<b>Input cabling requirements</b>	Maximum cable resistance 6Ω per conductor Maximum cable capacitance 0.2µ F between cable conductors
<b>Zone quiescent current</b>	500µ A maximum ( 10 Protec 3000 detectors per zone )
<b>Zone reset time</b>	2 seconds, with active zone discharge
<b>Manual Call Point requirements</b>	Must be fitted with a series 330Ω or 180Ω resistor
<b>Zone short circuit threshold</b>	Below 5% of supply voltage
<b>Zone fire threshold</b>	Below 70% of supply voltage
<b>Zone resistive open circuit threshold</b>	Above 92% of supply voltage
<b>Monitored input end of line details</b>	End of line resistor value 47kΩ 1/4W $\pm$ 5%
<b>Monitored input short circuit threshold</b>	Below 230Ω
<b>Monitored input fire threshold</b>	Below 7.85kΩ
<b>Monitored input pre-alarm threshold</b>	Below 32kΩ ( Input 3 only )
<b>Monitored input open circuit threshold</b>	Above 111kΩ
<b>Sounders supported</b>	Protec 3000 series
<b>Sounder circuit end of line</b>	10kΩ ¼W $\pm$ 5%
<b>Sounder circuit cable requirements</b>	Maximum cable resistance depends on Volt drop calculations Maximum cable capacitance 0.1 F between cable conductors.
<b>Sounder short circuit fault threshold</b>	Below 2kΩ
<b>Sounder open circuit fault threshold</b>	Above 18kΩ
<b>Sounder current limit (maximum)</b>	1.6A
<b>Sounder circuit fuses</b>	20mm x 5mm 1.6A Quick Blow
<b>Clean contact output details</b>	1 Single pole changeover rated for 2A maximum at 24V dc ( non inductive ) 1 Single pole changeover rated for 5A maximum at 230V ac ( non inductive )
<b>Weight</b>	245g ( including din rail housing, no backbox, 4 way build )
<b>LED Indicator</b>	Use only high brightness LED (Protec stock code: NK 02-676-46)

Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

**Protec Fire Detection Plc, Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT**

**Tel: 01282 717171 Fax: 01282 717273 Web: [www.protec.co.uk](http://www.protec.co.uk) Email: [sales@protec.co.uk](mailto:sales@protec.co.uk)**