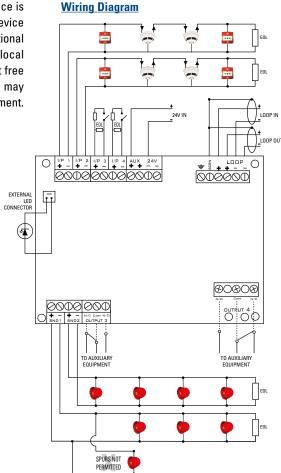


6000/410 Auxiliary Powered 4 Way Zone Alarm I/O Interface

- 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.



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 4 maximum, user and build configurable

24V Auxiliary input voltage range 18 to 28V dc

Environmental operational limits -10 to 50°C (maximum 95% RH no condensation or icing)

Loop quiescent current (24V loop peak) 0.6mA
Loop alarm current (average) 0.6mA

Zone short circuit current (24V) 26mA peak ± 2mA

Zone end of line requirements (I/P 1 & I/P 2) Resistive - 8.2k $\pm 5\%$ ¼W, Capacitive - 100 μ F $\pm 20\%$ in series with 22 Ω $\pm 5\%$ ¼W

Input cabling requirements $\mbox{Maximum cable resistance } 6\Omega$ per conductor

Maximum cable capacitance 0.2µ F between cable conductors

Zone quiescent current 500µ A 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 thresholdAbove 92% of supply voltage

Monitored input end of line details End of line resistor value $47k\Omega 1/4W \pm 5\%$

Monitored input short circuit thresholdBelow 230ΩMonitored input fire thresholdBelow 7.85kΩ

Monitored input pre-alarm threshold Below $32k\Omega$ (Input 3 only)

 Monitored input open circuit threshold
 Above 111kΩ

 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 0.1 F between cable conductors.

 Sounder short circuit fault threshold
 Below 2kΩ

 Sounder open circuit fault threshold
 Above 18kΩ

Sounder current limit (maximum) 1.6A

Sounder circuit fuses 20mm x 5mm 1.6A Quick Blow

Clean contact output details 1 Single pole changeover rated for 8A maximum at 30V DC non inductive)

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)