Protec
Fire and Security Group

6000/BEAM/IF
Loop Powered Beam Interface

Fire Detection - Addressable

- Protec Algo-Tec™ 6000 Protocol
- Loop Powered
- Monitored Zone Circuit
- Integral Short Circuit Isolator
- Standard Double Gang Back Box
- Built in Local Power Supply (Nominal 24V)

The Protec 6000/BEAM/IF is an interface unit which allows the 6000 series intelligent addressable loop to interface to conventional devices.

This is ideally suited to interface ancillary conventional devices such as beam detectors and linear heat detection with Protec intelligent addressable fire alarm systems. The 6000/BEAM/IF is loop powered and does not require an external power supply. The detection circuit end of line is selectable using the on-board DIL switch and can be programmed to resistive or capacitive as per the requirement of BS5839-1. The power circuit has a selectable 25mA or 50mA maximum current drive capability.

The interface has an inbuilt loop short circuit isolator fitted as standard.

Technical Specification

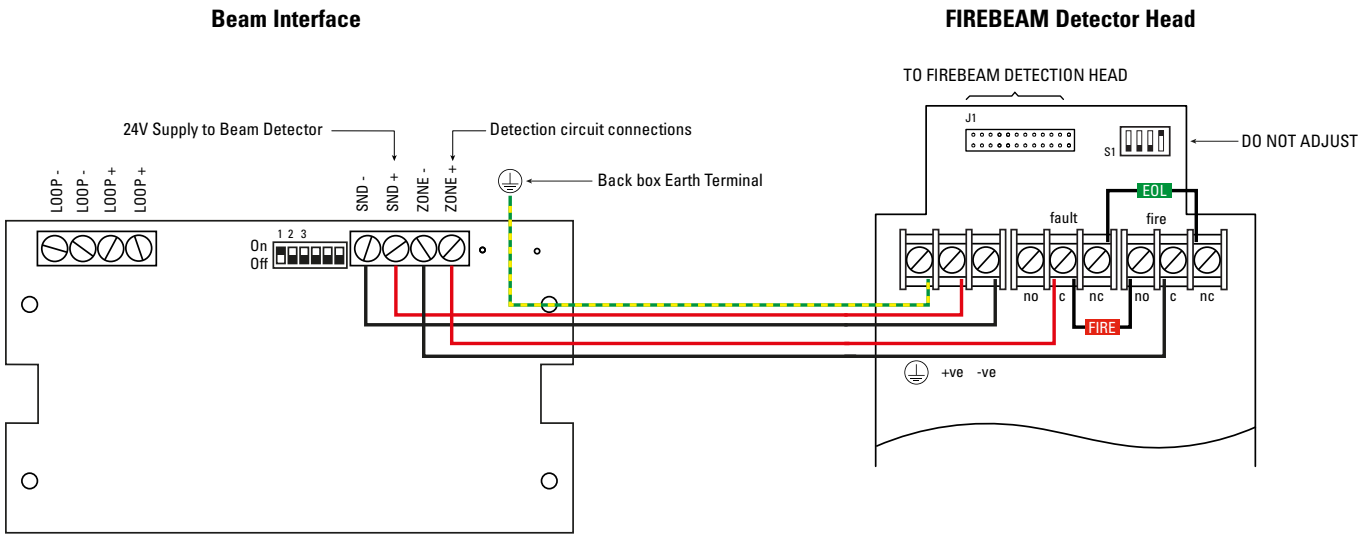
Device Protocol	Protec Algo-Tec™ 6000
Environmental	-10 to 50°C (maximum 95% RH no condensation or icing)
Loop Isolator	Yes
Loop Voltage	18 to 28V peak loop
Number of Addresses	1
Loop Quiescent Current	0.8mA + detection circuit load (0.5mA max) + resistive end of line load (3mA)
Loop Alarm Current	7.5mA + detection circuit current + power circuit current
Power Circuit Voltage	18 to 28V dc
Power Circuit Current Limit	Selectable 25mA or 50mA ± 2mA
Detection Circuit EOL[2]	Resistive - 8.2kΩ ±5% ¼W, Capacitive - 100µF ±20% in series with 22Ω ±5% ¼W
Detection Circuit Fire Value	330Ω ±5% ¼W
Weight	120g
Indications	On-board red indicating LED showing when the device is polled, or in the alarm state
Dimensions (mm)	147(W) x 87(H) x 15(D)

Notes

1) For more technical information consult DEL2189

2) EOL = End of Line

Wiring Diagram



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Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT