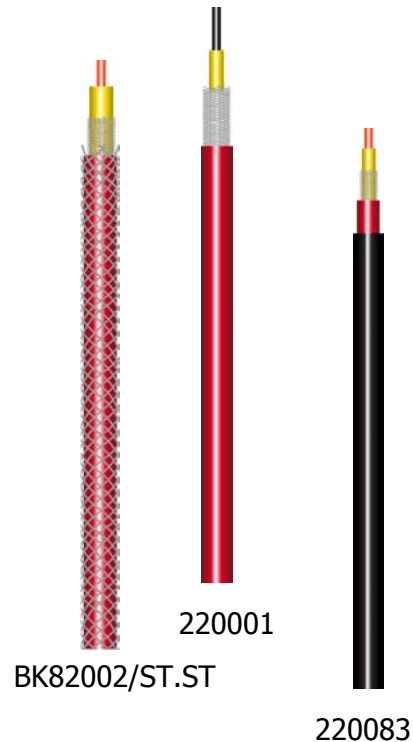


# FIRESENSE 2000

## ANALOGUE HEAT SENSING CABLE

**L G M**  
**PRODUCTS**

The Firesense 2000 Linear Heat Detection Cable employs specially formulated polymers to provide a change in resistance with temperature that is monitored by the associated FS2000 controller. The insulation resistance of the coaxial cable falls when it is subjected to an increase in temperature and provides repeatable values at all levels up to the destruction temperature of the cable. This resistance change is monitored by the associated controller, which also provides a means of setting the alarm temperature for a given length of cable. The Firesense 2000 cable is therefore ideal for detecting the early stages of fire and overheat conditions and may be physically tested any number of times by the application of heat.



### **FIRESENSE 2000 Cable Specification**

Part Nos:	220001 Standard	220083 Standard + Rilsan protective coating	BK82002ST/ST Standard + Stainless Steel Outer Braid
Co axial Construction :	Inner Core	-	Copper coated steel
	Insulation	-	Heat sensitive polymer
	Braid	-	Tinned copper wire
	Standard Outer sheath	-	Red P.V.C.
	Optional Additions	-	Rilsan outer protective coating or Stainless Steel Braid
Minimum Bend Radius:	6mm		
Tensile Strength:	Greater than 200N		
Supports & Fixings:	See Installation Guidelines for full details of available fixings.		
Weight:	1.6Kg /100 metres.	2.2Kg /100 metres.	3.0 Kg /100 metres.
Conductor Resistance:	Screen and core per 100 metres – 2 ohms		
Diameter:	2.8mm nominal.		
Operating Temperature	-20°C to +70°C (short excursions to 200°C)		
Alarm Temperature			
Range:	typical - 1 metre alarm range 70 to 125°C - 10 metre alarm range 45 to 100°C (Alarm temperatures may be set within limits at the associated controller, see Installation Guide for further details)		

# FIRESENSE FS2000 Controller

**L G M**  
**PRODUCTS**

The FS 2000 Controller is designed to monitor Firesense 2000 Linear Heat Detection Cable and its associated end of line terminator for high temperature alarm and open and short circuit fault conditions. The unit may be directly connected on two cores to the zone input of a Fire Alarm Control Panel, alternatively it has the facility to operate from 24vdc and provide Fire and Fault relay contacts. A dual-in-line switch is provided inside the unit to enable the user to set the controller for the length/alarm temperature of the associated detection cable.



## **SPECIFICATION:**

Part no:	115001
Enclosure:	Grey (RAL 7035) polycarbonate complete with hinged front secured with screws.
Enclosure rating:	IP65.
Operating temperature:	-10 to +50°C.
Enclosure dimensions:	180mm high x 130mm wide x 75 mm deep (excluding glands and hinges).
Input:	Firesense 2000 Linear heat detection cable.
Supply:	24 Vdc from zone of conventional fire alarm panel <u>Or</u> Nominal 24vdc (22-27vdc) for stand alone operation
Current consumption	normal 7mA alarm 35mA (fire relay operates) fault 35mA (fault relay operates)
Indications:	Green = system healthy LED Yellow = fault LED Red = Fire LED
Controls:	Reset front panel membrane switch Lamp test internal push button Alarm test internal push button Cable Length setting internal DIL switch
Outputs:	2 wire to fire control panel Control Panel and end of line device terminals provided. One set volt-free change over contacts for fire. One set volt-free change over contacts for fault.
Terminals:	Two part connector suitable for 2.5mm <sup>2</sup> cable.
Cable entries:	2 off PG13.5 IP65 glands 1 off PG7 IP65 gland (with insert for Firesense 2000 cable)
Weight:	0.7Kg

## **FIRESENSE FS2000 END of LINE Unit**

**L G M**  
**PRODUCTS**

The End of Line unit provides an enclosure for terminating the Fire-sense 2000 Linear Heat Sensing Cable and also contains a sealed diode and resistor device. The end of line unit returns the signal back to the controller for fire and fault monitoring.



### **SPECIFICATION:**

Part No:	100637
Construction:	Grey (RAL 7035) Polycarbonate enclosure with front lid secured with screws.
Enclosure rating:	IP65.
Operating temperature:	-10 to +50 <sup>0</sup> C.
Enclosure dimensions:	78mm high x 100mm wide x 52mm deep (Excluding gland but including mounting lugs)
Input:	Firesense 2000 linear heat detection cable.
Terminals:	Suitable for Firesense 2000 Heat sensing cable
Cable entry:	1 off PG7 IP65 gland (With insert for Firesense <sup>â</sup> 2000 cable)
Weight:	0.2Kg

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