

SKM HEAT SENSING SYSTEM

L G M
PRODUCTS

SKM-03 & SKM-03UK Controllers for conventional systems

SKM-95 Controller for Apollo XP95 addressable systems

KEY FEATURES

- Easy and economical to install.
- User friendly
- Controller will monitor up to 300 m of sensor cable (dependant on ambient temperature).
- Temperature increases are detected in proportion to the length of cable heated.
- The sensor cable is resistant to corrosion & moisture
- VdS approved.
- SKM-03 for use on conventional fire panels.
- Loop powered SKM-95 controller for use on addressable fire panels (XP95 Series protocol).
- Cable can be reset after use.



SKM-03 &
SKM-95
CONTROLLERS

END OF LINE UNIT



HOW DOES IT WORK?

The SKM heat sensing cable system provides early warning of an impending fire by detecting overheating in cable ducts, road tunnels, escalators, lift shafts, conveyer belts and similar difficult to monitor environments. The system uses 'Firesense' analogue heat sensing cable and the SKM-03 or SKM-95 controllers plus an end of line terminal box. The sensor cable is a specially constructed coaxial cable. When the cable is heated there is a corresponding change in the electrical characteristics of the cable. This change is monitored by the controller which when sufficient causes an alarm. The controller constantly monitors for open and short circuit faults in the cable. Firesense cable may be physically heat tested any number of times by the application of heat in order to test the system, however if it is destroyed by overheating or fire, the damaged section must be replaced.

Firesense
Analogue heat
sensing cable



SEE PAGE 2 FOR TECHNICAL SPECIFICATIONS

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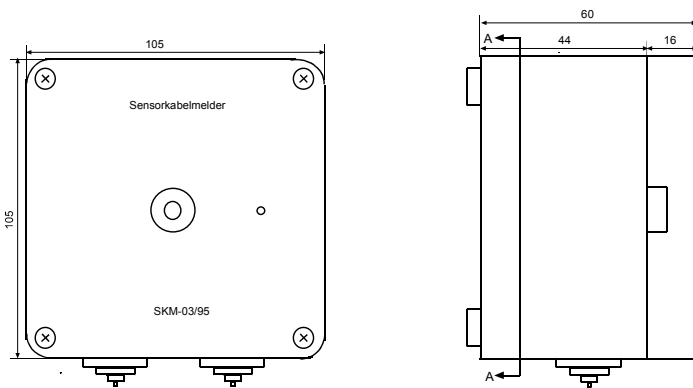
SKM HEAT SENSING SYSTEM

Technical specifications

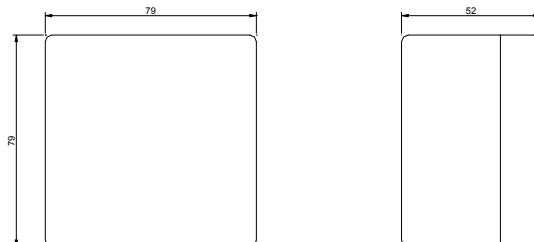
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SKM Controller Specifications:

Supply Voltage	SKM-95 Loop powered	SKM-03Vds & SKM-03UK 24Vdc
Idle current consumption	< 2 mA	28 mA
Alarm current	3.2 mA	58 mA
Isolator voltage	< 14 V	Not applicable
Address protocol:	XP95 Series	Not applicable
Response	EN54 compliant	SKM-03Vds: EN54 compliant SKM-03UK Alarm raised when 1m of cable is heated to 60°C
'FIRE' Relay contact	Not applicable	NO/NC Relay contacts
'FAULT' Relay contact	Not applicable	NO/NC Relay contacts
Dimensions: W/H/D	105/105/65 mm	105/105/65 mm
Weight	270 g	270 g
System Healthy LED Indicator	Green	Green
'FIRE' LED Indicator	Red	Red
Colour of housing:	grey, RAL 9002	grey, RAL 9002
IP Rating :	IP65	IP65



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FIRESENSE STAINLESS
STEEL BRAIDED
Part No: BK82002/ST.ST



FIRESENSE RILSAN
COATED

FIRESENSE CABLE
Part No: BK82002



Fire sense Cable Specification:

Coaxial construction :

Inner Core	-	Copper coated steel
Insulation	-	Heat sensitive polymer
Braid	-	Tinned copper wire
Outer sheath	-	Red coloured P.V.C.
Options	-	Rilsan outer protective coating Stainless steel braided

Minimum Bend Radius: 6mm

Weight: 1.6Kg per 100 metres.

Diameter: 3.25 mm nominal. (standard cable)

Operating Temperature -20°C to +70°C

Alarm Temp Range: Complies with DIN/EN54-5 class B & C

Typical example: alarm initiated when 5 metres out of a total length of 300 metres of cable is heated to between 99 to 115°C from an ambient of 20°C

Supports & Fixings: See Installation Guidelines for full details of available fixings.

Standard Lengths: 100m, 500m, 1000m

APPROVALS: Vds certificate numbers:
G 203076 for SKM-03 Conventional system
G 203077 for SKM-95 XP95 addressable system

CONTROLLER ORDER CODES:
For conventional systems order
SKM 03/BK82005 or SKM 03UK/BK82007
For Apollo XP95 addressable systems order
SKM95/BK82010

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