

# Linear heat detection system F-Laser

## F-Laser 4 SC-R

Order-No.: F-Laser 4 SC-R



**Sensor control unit, rack cabinet, max 4km loop configuration**

- Approvals: The systems are approved to international fire standards by LPCB and VdS.
- Fibre Break Detection & Recovery: In the event of a break in the sensor fiber, or a significant increase in optical loss, the F-LASER 4 indicates an alarm and the system automatically measures from both ends of the fiber, ensuring continued fire protection over the entire fiber length.
- Proven Technology: The F-LASER 4 can detect the exact location of an abnormal hot spot to within 1.0 m. The sensitivity of the system facilitates the detection of incipient fires.
- Stand Alone Operation: The embedded software enables the F-LASER 4 to operate independently of an external controller via TCP/IP or RS232 serial connection eg PC.
- Programmable Zones: Up to 600 zones can be programmed, each with individual alarm thresholds. Up to 32 outputs can be fed directly to an end user system via relays. Additional outputs to cover all zones can be achieved via an optional Modbus protocol interface.
- Fibre Optic Sensor Cable: The standard, 62.5/125  $\mu\text{m}$ , graded index, communications grade, fiber optic sensor cable is not affected by electro-ma

Technical specification:

Sampling Resolution: 1 m

Maximum External Fibre Length: 4 km

Circuits: 1 or 2\*

System Response: A1R\*\*

Laser Classification: Class 1\*\*\*

Dimension (wxdxh): 482x132x410 mm

Weight: 6 kg

Operating Temp: -5°C to 40°C

Storage Temp: -40°C to 65°C

Humidity: 5% to 95% RH (non condensing) 5

DC power: 24 V dc nominal

Power Rating Typical: 18W , Maximum: 25 W

CE Conformity : EN 50082-2 (immunity); EN 50130-4 (immunity); EN

50081-1 (emissions)

Railway: EN 50121 part 4