



Getting the full picture of your journey



SMIRtm

Smart Infrared Array Detector
(Railway Application)



Infrared top-of-the-class technology for fire detection

The SmiR active sensor quickly detects fires in railway environment. It detects temperature and gradient of temperature. SmiR detection is not affected by air flows. The sensor is extremely reliable and doesn't require any maintenance.



CUSTOMER BENEFITS :

- + SIL 2 and EN455445-compliant equipment
- + High MTBF figures
- + Very quick fire detection
- + No maintenance needs
- + High reliability
- + No moving parts

Prototype



Ready to quote



Ready to produce

**In production**

Electrics

Input Voltage 24VDC Nominal Voltage
(14.4 VDC \pm 36 VDC, peak up to 40V for 100msec)

Physical Characteristic

Housing Polycarbonate-ABS

IP Rating IP 40 protection

Dimensions 110x60mm

Installation Panel mounting plug-in design, base included

FoV 160° x 90°

Environmental Limits

Operating Temperature -25°C to 70°C, EN 50155 class T3

Storage Temperature -40°C to 85°C

Relative Humidity Annual average \leq 75% and 95%
for 30 consecutive days in the year

Standards and Certification

Railway EN 50155

Safety SW SIL 2 according EN 50128

Fire Behaviour EN 45545

Shock and Vibration EN 61373

EMC EN 50121-3-2

Fire Detection UNI 11565, EN 54-5, EN 54-10

Interface

Ports Dual redundant CAN EN 50159 compliant

MTBF

Time > 1.000.000 hrs

Standard IEC 62380

To discover everything **SMIR™** can do, contact:

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