

Sensice ice detectors

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Sensice's superior detectors Smart new design gives better performance



- •More advantageous price/performance ratio
- •Significantly reduced maintenance cost



Traffic accidents in Sweden 1995-1999:



•37828 at snowy or icy road surface conditions, of these did

•15589 occur during black ice conditions, and in addition did

•572 accidents related to aquaplaning occur



General properties Uses infrared spectroscopy



IR reception A IR emission IR reception B



General properties

Principles of spectroscopy





Use with RWS







Icing alert at building entrances





Ice detection at airports





Ice sheet or icicle buildup at sensitive spots









General properties

Large thickness interval due to two wavelength detection

0.05 mm - 3 cm



General properties

Differentiates between six states:

- 1. Dry
- 2. Wet
- 3. Clear ice
- 4. Snow
- 5. Sleet
- 6. Wet clear ice



Mechanical properties



- 182mm x 154mm x 82mm
- 3.1 kg



Detection range

- Recommended range 3-15 m
- Use at distances exceeding 25 m impractical





Angular dependence of detection range





Detection range dependent on surface properties







Optical properties Detects over extended area

• Beam divergence 12°



Lamp exchange port





Power supply



- 12V DC
- 2.6A



Communication interface



- RS232
 - 57600 baud, one stop bit and no parity
- New measurement results once per second







Ports not intended for customer use



- Calibration
- Software download



Resistance to environmental influences

Precipitation immunity





Resistance to environmental influences

Dew and frost

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31W heating



Resistance to environmental influences

Temperature range -20°C to +40°





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Thank you

Further information: www.sens*ice*.com

Inquiries: inquiries@sens*ice*.com