Asphalt surface temperature sensor

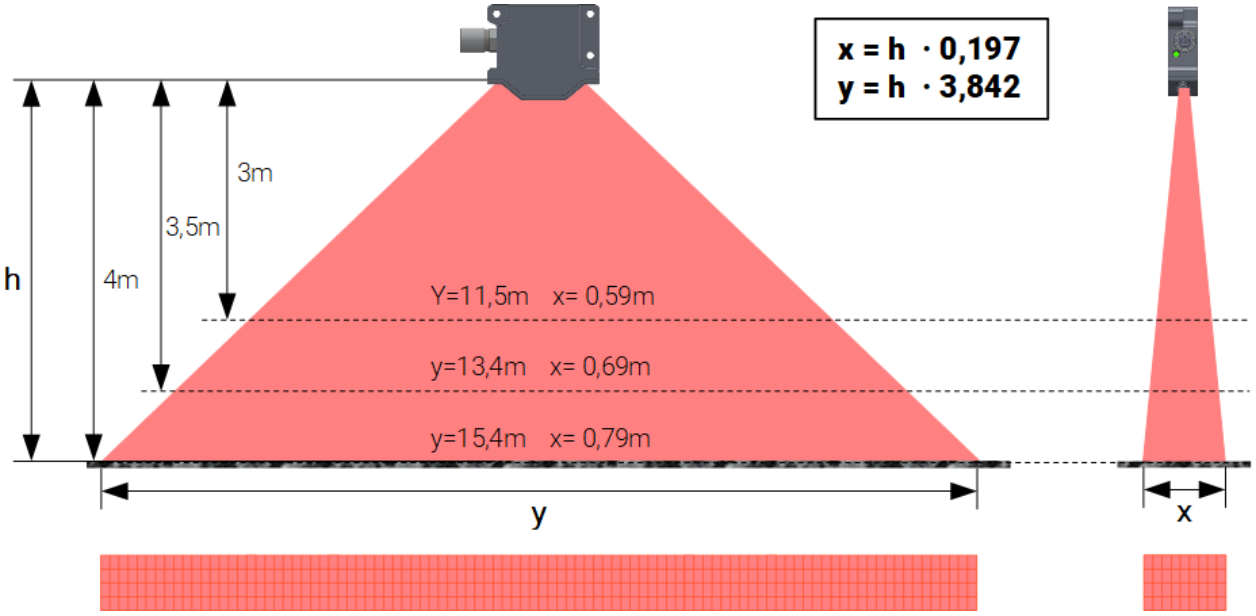
Infrared CAN matrix sensor with wide field of view

The matrix sensor, which has been specially optimized for measuring the asphalt surface temperature behind the screed of a paver, is characterized by its wide field of view. It is also compact in size and has no moving parts. The sensor can be integrated digitally via CAN bus.



Properties:

- CAN interface (CANopen)
- Matrix sensor with field of view of 125° x 11°
- Storage grid 25cm
- Measuring range is optimized for asphalt measurement
- Compact size without moving parts



Technical data:

Overall dimensions	(W/H/D) 94mm x 28mm x 81mm
Housing / protection class	Aluminum housing / IP69k (DIN EN 60529)
Weight	approx. 0,3kg
Connections	Built-in plug 5pole M12
Power supply	UB = 8..32V (reverse polarity protected)
Sensor	Field of view: 125° x 11° Storage grid: 25cm Measuring range: 50°C bis 260°C Accuracy: typ.. ±2°C (TObjekt. = 100°C TUmgeb. = 50°C)
Signal transmitter	1 optical signal transmitter (Housing LED)
Interfaces	1 CAN (max. baud rate: 1Mbit/s)
Operating temp. range	-40..85°C (Housing temperature)
EMC	Road vehicles: ISO 10605, ISO 7637-1, ISO 7637-2, ISO 7637-3 Construction machinery: DIN EN ISO 13309 Agricultural and forestry machinery: DIN EN ISO 14982 Industrial use: DIN EN 61000-6-2, DIN EN 61000-6-4
Mechanical, climatic resilience	Cold: DIN EN 60068-2-1 Dry heat: DIN EN 60068-2-2 Vibration: DIN EN 60068-2-6 Temperature changes: DIN EN 60068-2-14 Shock: DIN EN 60068-2-27 Moist heat: DIN EN 60068-2-30 Free fall: DIN EN 60068-2-31

Pin assignment, 5-pin M12 connector:

Pin-No.	Labelling	Description
1	SG	Signal ground
2	UB	Supply plus
3	DG	Supply ground
4	CH	CAN high
5	CL	CAN low

Overall dimensions:

