

SICK NANS3-AAAZ30AN1

SICK NANS3-AAAZ30AN1 Safety laser scanners, nanoScan3, Type 3, SIL 2, Ethernet

Features

Product version nanoScan3 Core I/O

Model Sensor without system plug

Application Indoor

Protective field range 3 m

Warning field range 10 m

Distance measuring range 40 m

Number of simultaneously monitored fields ≤ 4

Number of fields 8 3)

Number of monitoring cases 2

Scanning angle 275°

Resolution (can be configured) 20 mm

30 mm

40 mm

50 mm

60 mm

70 mm

150 mm

200 mm

Angular resolution 0.17°

Response time 70 ms

Protective field supplement 65 mm

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40 mm
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70 mm
150 mm
200 mm
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Protective field supplement 65 mm

Category Category 3 (EN ISO 13849)
Performance level PL d (EN ISO 13849)
PFHD (mean probability of a dangerous failure per hour)
8.0 x 10⁻⁸
TM (mission time) 20 years (EN ISO 13849)
Safe state in the event of a fault At least one OSSD is in the OFF state.

Functions

Restart interlock ✓
External device monitoring (EDM) ✓
Multiple sampling ✓
Monitoring case switching ✓
Simultaneous monitoring ✓
Static protective field switching ✓
Safe contour detection ✓
Contour as a reference ✓
Integrated configuration memory ✓
Measured data output Via Ethernet

Interfaces

Connection type Depending on system plug
Universal I/Os 3

Outputs

OSSD pairs 1

Inputs

Universal inputs 1

Static control inputs 1

Configuration method PC with Safety Designer (Configuration and Diagnostic Software)

Configuration and diagnostics interface USB 2.0, micro USB

Data interface

Services CoLa 2 (configuration and diagnostics using Safety Designer)

Data output

DHCP

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SNTP

Display elements Graphic color display, LEDs

Mechanics

Dimensions (W x H x D) 106.6 mm x 80 mm x 117.5 mm (including system plug)

Weight 0.67 kg

Housing material Aluminum

Housing color RAL 1021 (yellow), RAL 9005 (black)

Optics cover material Polycarbonate

Ambient data

Enclosure rating IP65 (IEC 60529)

Ambient light immunity ≤ 40 klx (IEC 61496-3)

Ambient operating temperature $-10^{\circ}\text{C} \dots +50^{\circ}\text{C}$

Storage temperature $-25^{\circ}\text{C} \dots +70^{\circ}\text{C}$

Vibration resistance IEC 60068-2-6, IEC 60068-2-64, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3

Class 5M1 (IEC 60721-3-5)

Shock resistance IEC 60068-2-27, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3

Class 5M1 (IEC 60721-3-5)

Continuous shock 50 m/s^2 , 11 ms

100 m/s^2 , 16 ms

EMC IEC 61496-1, IEC 61000-6-2, IEC 61000-6-3

1) Typical ambient light immunity, for ambient light sources directly in the scan plane in accordance with IEC 61496-3: ≤ 3 klx.

Other information

Type of light Pulsed laser diode

Wave length 905 nm

Detectable remission factor 1.8% to several 1000%

Laser class 1 (21 CFR 1040.10 and 1040.11, IEC 60825-1)

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