

# SICK MICS3-ABAZ90PZ1P01

MICS3-ABAZ90PZ1P01 | SICK Sensors | Safety laser scanners microScan3

## Features

Product version microScan3 Core - PROFINET

Model Sensor including system plug (pre-mounted on the underside)

Application Indoor

Protective field range 9 m

Warning field range 64 m

Number of simultaneously monitored fields  $\leq 4$  1)

Number of fields 8

Number of monitoring cases 8

Scanning angle 275°

Resolution (can be configured) 30 mm

40 mm

50 mm

60 mm

70 mm

150 mm

200 mm

Angular resolution 0.1°

Response time 115 ms

Protective field supplement 100 mm

## Safety-related parameters

Type Type 3 (IEC 61496)

Safety integrity level SIL 2 (IEC 61508)

Category Category 3 (EN ISO 13849)

Performance level PL d (EN ISO 13849)

PFHD (mean probability of a dangerous failure per hour)

$8.0 \times 10^{-8}$

TM (mission time) 20 years (EN ISO 13849)

Safe state in the event of a fault The safety outputs via the network are logic 0.

## Interfaces

Connection type

Voltage supply 1 x male connector, M12, 4-pin, A-coded

Fieldbus, industrial network 2 x M12 female connectors, 4-pin, D-coded



You can contact us through the following contact information

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## Outputs

OSSD pairs 0

Safety outputs via network 4

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

Configuration and diagnostics interface USB 2.0, Mini-USB, Ethernet

Fieldbus, industrial network PROFINET

Protocol PROFIsafe

Supported protocol versions PROFINET specification V2.3

PROFIsafe profile in accordance with specification V2.6.1

PROFIsafe profile in accordance with specification V2.4

GSDML According to GSDML specification V2.33

Cycle time 1 ms, 2 ms, 4 ms, 8 ms, 16 ms ...

Conformance Conformance Class C

Network management SNMP

MIB-2

LLDP in accordance with IEEE 802.1AB

MRP client support

Net load Net load class III in accordance with security level 1 test

Switch properties 2 port real-time switch compliant with IEEE 802

Port properties 100Base-TX

Auto-negotiation

Auto-crossover (MDIX)

Auto-polarity

Diagnostics I&M data sets 0 ... 5

PROFINET alarms

Additional services PROFIenergy

F\_iPar\_CRC

Acyclic read-/write services for communication via TCI

SNTP (client and server)

Additional interfaces TCP/IP communication via port 9000

Display elements Graphic color display, LEDs

## Electronics

Protection class III (EN 61140)

Supply voltage Vs 24 V DC (16.8 V DC ... 30 V DC)

Power consumption typical 7.2 W

## Mechanics

Dimensions (W x H x D) 112 mm x 150.7 mm x 111.1 mm (without system plug)

Weight 1.45 kg

Housing material Aluminum

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

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Optics cover material Polycarbonate  
Optics cover surface finish Outside with scratch-resistant coating  
Ambient data  
Enclosure rating IP65 (IEC 60529)  
Ambient light immunity  $\leq 40$  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 60721-4-3, IEC 61496-1,  
IEC 61496-3  
Class 5M1 (IEC 60721-3-5)  
3M4 (IEC TR 60721-4-3)  
Shock resistance IEC 60068-2-27, IEC 60721-3-5, IEC TR 60721-4-3, IEC 61496-1, IEC 61496-3  
Class 5M1 (IEC 60721-3-5)  
3M4 (IEC TR 60721-4-3)  
Continuous shock  $100\text{ m/s}^2$ , 16 ms  
 $150\text{ m/s}^2$ , 6 ms  
EMC IEC 61496-1, IEC 61000-6-2, IEC 61000-6-4

Other information  
Type of light Pulsed laser diode  
Wave length 845 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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