

SICK MICS3-ABAZ55IZ1P01

MICS3-ABAZ55IZ1P01 Safety Systems from SICK

Detailed technical data

Features

Product version microScan3 Core - EtherNet/IP

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

Application Indoor

Protective field range 5.5 m

Warning field range 40 m

Number of simultaneously monitored fields ≤ 4

Number of fields 8

Number of monitoring cases 8

Scanning angle 275°

Resolution (can be configured) 30 mm

40 mm

50 mm

70 mm

150 mm

200 mm

Angular resolution 0.39°

Response time 95 ms

Protective field supplement 65 mm

1) Protection, warning or contour detection fields.

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)

8.0×10^{-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.

Functions

Restart interlock ✓

Multiple sampling ✓

Monitoring case switching ✓

Simultaneous monitoring ✓

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Static protective field switching ✓
Safe contour detection ✓
Contour as a reference ✓
Integrated configuration memory ✓
Measured data output Via Ethernet
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
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
Data interface
Services EtherNet/IP™ CIP Safety™
CoLa 2 (configuration and diagnostics using Safety Designer)
Data output
DHCP
SNMP
SNTP (client and server)
Fieldbus, industrial network EtherNet/IP™
Supported protocol versions Common Industrial Protocol: The CIP Networks Library Volume 1, Edition 3.20
EtherNet/IP™: The CIP Networks Library Volume 2, Edition 1.21
CIP Safety™: The CIP Networks Library Volume 5, Edition 2.13
Topology support DLR (Device Level Ring)
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)
Optics cover material Polycarbonate
Optics cover surface finish Outside with scratch-resistant coating
Ambient data

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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 60721-4-3, 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 m/s^2 , 16 ms

150 m/s^2 , 6 ms

EMC IEC 61496-1, IEC 61000-6-2, IEC 61000-6-4

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 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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