

**SAFETY LASER SCANNERS** 



SAFETY LASER SCANNERS



Illustration may differ



#### **Ordering information**

Туре	Part no.
MICS3-AAUZ40AZ1P01	1094452

Other models and accessories -> www.sick.com/outdoorScan3

Detailed technical data

#### Features

Sub product family	outdoorScan3 Core I/O
Model	Sensor including system plug
Application	Outdoor <sup>1)</sup>
Compressed air cleaning	Not possible
Protective field range	4 m
Warning field range	40 m
Number of simultaneously monitored fields	≤ 4 <sup>2) 3)</sup>
Number of fields	8 <sup>4)</sup>
Number of monitoring cases	2
Scanning angle	275°
Resolution (can be configured)	50 mm 70 mm
Angular resolution	0.39°
Response time	≥ 90 ms
Protective field supplement	65 mm

 $^{\left( \right) }$  The safety laser scanner is suitable for use in industrial environments (indoors and outdoors).

<sup>2)</sup> Protection or warning fields.

<sup>3)</sup> Please note the number of available OSSD pairs.

 $^{\rm 4)}$  Please note the number of available inputs and OSSD pairs.

#### Safety-related parameters

Туре	Type 3 (IEC 61496)
Safety integrity level	SIL 2 (IEC 61508)
Category	Category 3 (EN ISO 13849)
Performance level	PL d (EN ISO 13849)
Performance class SRS/SRSS	Performance class D (IEC/TS 62998)

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Connection typeMale connector, M12, 8 pin, A-coded (common male connector for power supply and inputs and outputs)Universal I/Os3OutputsIOutputsIConfiguration methodPo with Safety Designer (Configuration and Diagnostic Software)Configuration and diagnostics interfaceUSB 2.0, Min-USBDisplay elementsGraphic color display, LEDsElectrical dataII (EN 61140)Protection classII (EN 61140)Supply voltage Vs24 VD C (6.8 VD C 30 VD C)Power consumption typical14.6 mm x 135.1 mm x 114.6 mmMichaginaterialAluminumHousing materialAlu 2004 (pure orange), RAL 9005 (black)Potics cover materialPolycarbonateOptics cover surface finishFolse (EC 60529)Ambient light immunityHalogn light (EC 6436-3) sunnityMaterialLigl Color (Light 6436-3) sunnity		
Type         20 years (EN ISD 13849)           Safe state in the ovent of a fault         In each OSSD pair, at least one OSSD is in the OFF state.           Functions         Image: State protocols (EDM)           Retarn latericok         Image: State protocols (EDM)           Multiple sampling         Image: State protocols (EDM)           State protocols (EDM)         Image: State protocols (EDM)           Multiple sampling         Image: State protocols (EDM)           Multiple sampling         Image: State protocols (EDM)           Measured data output         State protocols (EdM)           Outputs         Image: Stat		8.0 x 10 <sup>-8</sup>
Functions           Restart interlock <ul> <li>Addition of the same pling</li> <li>Addition of the same pling</li></ul>		20 years (EN ISO 13849)
Restart interlook <ul> <li>Addition of the sampling</li> <li>Addition of the sampling</li></ul>	Safe state in the event of a fault	In each OSSD pair, at least one OSSD is in the OFF state.
Restart interlook <ul> <li>Addition of the sampling</li> <li>Addition of the sampling</li></ul>	Functions	
Multiple sampling <ul> <li>Addition and search and s</li></ul>		1
Mailtoning case switching         Image: sea switching         Imag	External device monitoring (EDM)	1
Simultaneous monitoring         Production memory           Static protective field switching         -           Integrated configuration memory         -           Measured data output         None           Interfaces         Male connector, M12, 8 pin, Acoded (common male connector for power supply and inputs and outputs)           Universal I/Os         3           Outputs         -           Outputs         -           Outputs         -           Configuration method         Cowith Safety Designer (Configuration and Diagnostic Software)           Configuration and diagnostics interface         Use Count Safety Designer (Configuration and Diagnostic Software)           Protection class         Util EN 61140           Supply voltage V,         24 V DC (16.8 V DC 30 V DC)           Power consumption typical         14.6 mm x 135.1 mm x 114.6 mm           Weight         14.6 mm x 135.1 mm x 114.6 mm           Weight         14.6 mm x 135.1 mm x 114.6 mm           Weight         14.6 mm x 135.1 mm x 114.6 mm           Weight         14.6 mm x 135.1 mm x 114.6 mm           Weight         14.6 mx x 135.1 mm x 114.6 mm           Weight         14.6 mx x 135.1 mm x 114.6 mm           Weight         14.2 Wold (upur orange), RAL 9005 (black)           Optice cover mate	Multiple sampling	1
Static protective field switching         Image and source in the second se	Monitoring case switching	1
Integrated configuration memory Measured data output Measured data Measured dat	Simultaneous monitoring	1
Measured data output         None           Interfaces         Some           Connection type         Male connector, M12, 8 pin, A coded (common male connector for power supply and inputs and outputs)           Universal I/Os         3           Outputs         Interfaces           OSD pain         1           Configuration method         PC with Safety Designer (Configuration and Diagnostic Software)           Configuration and diagnostics interface         USD 20, Mini-USB           Display elements         Graphic color display, LEDs           Electrical data         III (EN 61140)           Supply voltage V,         24 V DC (16.8 V DC 30 V DC)           Power consumption typical         7 Without output lead)           Measing material         Aluminum           Housing material         Aluminum           Housing material         Aluminum           Aubient uside with scratch-resistant coating         Outputs coating           Arbient light immunity         Ife6 (EC 60529)           Ambient light immunity         \$ 12,0000 kx (IEC 61496-3)           Suning ti<         4,00000 kx (IEC 61496-3)	Static protective field switching	1
Interfaces	Integrated configuration memory	1
Connection typeMale connector, M12, 8 pin, A-coded (common male connector for power supply and inputs and outputs)Universal I/Os3OutputsIOutputsIConfiguration methodPo with Safety Designer (Configuration and Diagnostic Software)Configuration and diagnostics interfaceUSB 2.0, Min-USBDisplay elementsGraphic color display, LEDsElectrical dataII (EN 61140)Protection classII (EN 61140)Supply voltage Vs24 VD C (6.8 VD C 30 VD C)Power consumption typical14.6 mm x 135.1 mm x 114.6 mmMichaginaterialAluminumHousing materialAlu 2004 (pure orange), RAL 9005 (black)Potics cover materialPolycarbonateOptics cover surface finishFolse (EC 60529)Ambient light immunityHalogn light (EC 6436-3) sunnityMaterialLigl Color (Light 6436-3) sunnity	Measured data output	None
and outputs         and outputs           Outputs         I           OsDD pain         Configuration method         PC with Safety Designer (Configuration and Diagnostic Software)           Configuration method         Configuration and Diagnostic Software)         Configuration and Diagnostic Software)           Configuration method         Configuration and Diagnostic Software)         Configuration and Diagnostic Software)           Configuration method         Configuration and Diagnostic Software)         Configuration and Diagnostic Software)           Configuration and Diagnostics Interface         Configuration and Diagnostic Software)         Configuration and Diagnostic Software)           Configuration and Diagnostics Interface         Configuration and Diagnostic Software)         Configuration and Diagnostic Software)           Configuration and Diagnostics Interface         Folic Software Software         Folic Software Software           Protection class         Interface Software Software         Folic Software Software           Protection class         Interface Software Software         Folic Software Software           Protection class         Interface Software Software         Folic Software Software           Protection class         Folic Software Software Software         Folic Software Software           Protection class         Folic Software Software         Folic Software	Interfaces	
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Display elementsGraphic color display, LEDsElectrical dataProtection classIII (EN 61140)Supply voltage Vs24 V D C (16.8 V D C 30 V D C)Power consumption typical7 W (without output load)Mechanical dataVeright14.6 mm x 135.1 mm x 114.6 mmNousing materialAluminumHousing colorRA L 2004 (pure orange), RAL 9005 (black)Optics cover materialPolycarbonateOptics cover surface finishOticki with scratch-resistant coatingAmbient light immunityFe5 (IEC 60529)Ambient light immunity\$ 12,000 kx (IEC 61496-3) \$ 40,000 kx (IEC 61496-3)	Configuration method	PC with Safety Designer (Configuration and Diagnostic Software)
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Protection classIII (EN 61140)Supply voltage Vs24 V DC (16.8 V DC 30 V DC)Power consumption typical7 W (without output load)Mechanical data7 W (without output load)Methanical data114.6 mm x 135.1 mm x 114.6 mmVeight1.15 kgHousing materialAluminumHousing colorRAL 2004 (pure orange), RAL 9005 (black)Optics cover materialPolycarbonateOptics cover surface finish0utside with scratch-resistant coatingAmbient dataPolycarbonateAmbient light immunityPois (IEC 60529)Halogen ligh<12,000 kx (IEC 61496-3) < 40,000 kx (IEC 61496-3)	Display elements	Graphic color display, LEDs
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Power consumption typical         7 W (without output load)           Power consumption typical         7 W (without output load)           Mechanical data         14.6 mm x 135.1 mm x 114.6 mm           Dimensions (W x H x D)         14.6 mm x 135.1 mm x 114.6 mm           Weight         1.15 kg           Housing material         Aluminum           Housing color         RAL 2004 (pure orange), RAL 9005 (black)           Optics cover material         Polycarbonate           Optics cover surface finish         Outside with scratch-resistant coating           Ambient data         IP65 (IEC 60529)           Ambient light immunity         IP65 (IEC 61496-3)           Halogen ligh         \$12,000 kx (IEC 61496-3)           Suntight         \$40,000 kx (IEC 61496-3)	Protection class	III (EN 61140)
Mechanical data         Dimensions (W x H x D)       114.6 mm x 135.1 mm x 114.6 mm         Weight       1.15 kg         Housing material       Aluminum         Housing color       RAL 2004 (pure orange), RAL 9005 (black)         Optics cover material       Polycarbonate         Optics cover surface finish       Outside with scratch-resistant coating         Ambient data       Po5 (IEC 60529)         Ambient light immunity       Halogen light         Halogen light       ≤ 12,000 kx (IEC 61496-3)         Sunlight       ≤ 40,000 kx (IEC 61496-3)	Supply voltage $V_s$	24 V DC (16.8 V DC 30 V DC)
Dimensions (W x H x D)114.6 mm x 135.1 mm x 114.6 mmWeight1.15 kgHousing materialAluminumHousing colorRAL 2004 (pure orange), RAL 9005 (black)Optics cover materialPolycarbonateOptics cover surface finishOutside with scratch-resistant coatingAmbient dataIP65 (IEC 60529)Ambient light immunityIP65 (IEC 61496-3) 4 0,000 kx (IEC 61496-3) 4 0,000 kx (IEC 61496-3)	Power consumption typical	7 W (without output load)
Weight1.15 kgHousing materialAuminumHousing colorRAL 2004 (pure orange), RAL 9005 (black)Optics cover materialPolycarbonateOptics cover surface finish0 viside with scratch-resistant coatingAmbient dataFols (ICE 60529)Ambient light immunity12,000 kx (IEC 61496-3) 40,000 kx (IEC 61496-3)	Mechanical data	
Housing materialAluminumHousing colorAlu2004 (pure orange), RAL 9005 (black)Optics cover materialPolycarbonateOptics cover surface finishOutside with scratch-resistant coatingAmbient dataFolse (EC 60529)Ambient light immunityPols (IEC 61496-3)Halogen light≤ 12,000 lx (IEC 61496-3)Sunlight≤ 40,000 lx (IEC 61496-3)	Dimensions (W x H x D)	114.6 mm x 135.1 mm x 114.6 mm
Housing color       RAL 2004 (pure orange), RAL 9005 (black)         Optics cover material       Polycarbonate         Optics cover surface finish       Outside with scratch-resistant coating         Ambient data       IP65 (IEC 60529)         Ambient light immunity       12,000 lx (IEC 61496-3)         Halogen light       ≤ 12,000 lx (IEC 61496-3)         Sunlight       ≤ 40,000 lx (IEC 61496-3)	Weight	1.15 kg
Optics cover material     Polycarbonate       Optics cover surface finish     Outside with scratch-resistant coating       Ambient data     IP65 (IEC 60529)       Ambient light immunity     IP65 (IEC 61496-3)       Halogen light     ≤ 12,000 lx (IEC 61496-3)       Sunlight     ≤ 40,000 lx (IEC 61496-3)	Housing material	Aluminum
Optics cover surface finish       Outside with scratch-resistant coating         Ambient data       IP65 (IEC 60529)         Ambient light immunity       IP65 (IEC 61496-3)         Halogen light       ≤ 12,000 lx (IEC 61496-3)         Sunlight       ≤ 40,000 lx (IEC 61496-3)	Housing color	RAL 2004 (pure orange), RAL 9005 (black)
Ambient data         Enclosure rating       IP65 (IEC 60529)         Ambient light immunity          Halogen light       ≤ 12,000 lx (IEC 61496-3)         Sunlight       ≤ 40,000 lx (IEC 61496-3)	Optics cover material	Polycarbonate
Enclosure ratingIP65 (IEC 60529)Ambient light immunityHalogen lightSunlight40,000 lx (IEC 61496-3)Sunlight	Optics cover surface finish	Outside with scratch-resistant coating
Ambient light immunity         Fragmen (EC 61496-3)           Halogen light         \$ 40,000 lx (EC 61496-3)           Sunlight         \$ 40,000 lx (EC 61496-3)	Ambient data	
Halogen light $\leq$ 12,000 lx (IEC 61496-3)         Sunlight $\leq$ 40,000 lx (IEC 61496-3)	Enclosure rating	IP65 (IEC 60529)
Sunlight $\leq 40,000 \text{ lx} (\text{IEC 61496-3})$	Ambient light immunity	
	Halogen light	≤ 12,000 lx (IEC 61496-3)
	Sunlight	≤ 40,000 lx (IEC 61496-3)
	Ambient operating temperature	-25 °C +50 °C
Storage temperature-25 °C +70 °C	Storage temperature	-25 °C +70 °C

 $^{\left(1\right)}$  More detailed data can be found in the operating instructions, chapter "Project planning".

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Ambient conditions		
	Rain	10 mm/h <sup>1)</sup>
Sn	nowfall	3 mm/h SWE, Snow Water Equivalent <sup>1)</sup>
	Fog	$\geq$ 50 m (MOR, Meteorological Optical Range) <sup>1)</sup>
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/s², 16 ms 150 m/s², 6 ms
EMC		IEC 61496-1, IEC 61000-6-2, IEC 61000-6-4

 $^{1)}$  More detailed data can be found in the operating instructions, chapter "Project planning".

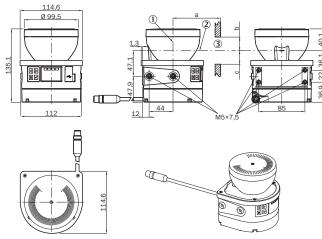
#### Other information

Type of light	Pulsed laser diode
Wave length	845 nm
Detectable remission factor	1.8% to several 1000%
Laser class	1M (21 CFR 1040.10 and 1040.11, IEC 60825-1)

#### Classifications

ECLASS 5.0	27272705
ECLASS 5.1.4	27272705
ECLASS 6.0	27272705
ECLASS 6.2	27272705
ECLASS 7.0	27272705
ECLASS 8.0	27272705
ECLASS 8.1	27272705
ECLASS 9.0	27272705
ECLASS 10.0	27272705
ECLASS 11.0	27272705
ECLASS 12.0	27272705
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	39121528

#### Dimensional drawing (Dimensions in mm (inch))



#### ① Mirror axis of rotation

② Scan plane

③ Required viewing slit (a: length of the viewing slit, b: minimum height above the scan plane, c: minimum height below the scan plane. See the operating instructions for details.)

#### Pin assignment

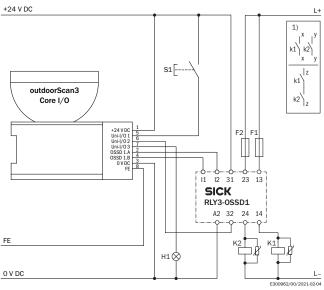


Pin	Designation	Description
1	+24 V DC	Supply voltage +24 V DC
2	OSSD 1.A	OSSD pair 1, OSSD A
3	0 V DC	Supply voltage 0 V DC
4	OSSD 1.B	OSSD pair 1, OSSD B
5	Uni-I/O 1	Universal I/O 1, configurable
6	Uni-I/O 2	Universal I/O 2, configurable
7	Uni-I/0 3	Universal I/O 3, configurable
8	FE	Functional earth/shielding
For details see of	operating instruct	ions

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#### **Connection diagram**

outdoorScan3 Core I/O with restart interlock and external device monitoring at RLY3-OSSD1 safety relay



① Output circuits: These contacts must be incorporated into the control such that the dangerous state is brought to an end if the output circuit is open. For categories 4 and 3, they must be incorporated on dual-channels (x, y paths). Single-channel incorporation into the control (z path) is only possible with a single-channel control and taking the risk analysis into account.

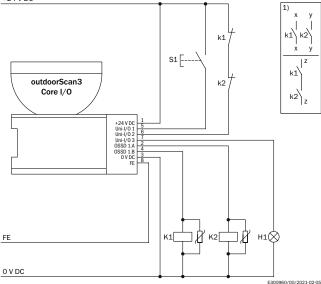
Uni-I/O 1: configured as input reset

Uni-I/O 2: configured as input external device monitoring (EDM)

Uni-I/O 3: configured as output reset required

outdoorScan3 Core I/O with restart interlock and external device monitoring





① Output circuits: These contacts must be incorporated into the control such that the dangerous state is brought to an end if the output circuit is open. For categories 4 and 3, they must be incorporated on dual-channels (x, y paths). Single-channel incorporation into the control (z path) is only possible with a single-channel control and taking the risk analysis into account.

Uni-I/O 1: configured as input reset

Uni-I/O 2: configured as input external device monitoring (EDM)

Uni-I/O 3: configured as output reset required

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#### **Recommended accessories**

Other models and accessories -> www.sick.com/outdoorScan3

	Brief description	Туре	Part no.
Device protect	tion (mechanical)		
S	1 piece, Splash guard, only in conjunction with mounting kit 3 (2103049)	Splash guard	2123205
	1 piece, weather hood (only in conjunction with mounting kit 3) $% \left( \frac{1}{2} \right) = \left( \frac{1}{2} \right) \left($	Weather hood	2103050
Mounting bra	ckets and plates		
	1 piece, mounting bracket with protection of optics hood, Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	1b mounting kit	2074242
	1 piece, mounting bracket, Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	Mounting kit 1a	2073851
	1 piece, alignment bracket, alignment with cross-wise axis and depth axis possible, distance between mounting surface and device: 22.3 mm, only in conjunction with mounting kit 1a (2073851) or 1b (2074242), Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	Mounting kit 2a	2073852
	1 piece, Alignment bracket, alignment with cross-wise axis and depth axis possible, distance between mounting surface and device: 52.3 mm, only in conjunction with mounting kit 1a (2073851) or 1b (2074242), Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	Mounting kit 2b	2074184
1	1 piece, Alignment bracket with protection for the optics cover, alignment with cross- wise axis and depth axis possible	Mounting kit 3	2103049
Plug connecto	ors and cables		
N.	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 7-wire, PUR</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with oils and lubricants, Outdoor, seawater resistant, cold bending resistant</li> </ul>	YF2A68-020UA7XLEAX	2108120
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 20 m, 7-wire, PUR</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Application: Zones with oils and lubricants, Outdoor, seawater resistant, cold bending resistant</li> </ul>	YF2A68-200UA7XLEAX	2108133

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#### **Recommended services**

Additional services -> www.sick.com/outdoorScan3

	Туре	Part no.
Retrofit and upgrade services		
<ul> <li>Product area: outdoorScan3</li> <li>Range of services: Upgrading the outdoorScan3 with the airWiper, Firmware and hardware updates, Functional testing</li> </ul>	outdoorScan3 Up- grade airWiper	1615642

# SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

## WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

