PRODUCT INFORMATION

outdoorScan3

THE SAFETY LASER SCANNER FOR OUTDOOR AUTOMATION

Safety laser scanner

SICK
Sensor Intelligence.

FOUR FACETS OF IMPRESSIVE OUTDOOR SENSORS

Outdoor certified

The outdoorScan3 safety laser scanner is designed to allow man and machine to work safely side by side and is certified for use in industrial production and logistics areas both inside and outside of buildings. This certification is based on the ISO 13849-1 and IEC 62998 standards, among others. The outdoorScan3 accelerates intralogistical processes and boosts productivity – even beyond the confines of production buildings.

High productivity due to safe human-machine-cooperation in outdoor areas

outdoor safeHDDM® scanning technology

The patented safeHDDM® technology from SICK has undergone crucial further developments for the outdoor environment with the help of a number of special algorithms. This makes the safety laser scanner exceptionally suitable for protecting both stationary and mobile outdoor applications. It reliably detects people without the need for additional protective devices. And even in the event of unfavorable weather conditions such as rain or snow, the outdoorScan3 remains highly available and provides extremely accurate measurement data. What's more, it even offers an impressive 4 m protective field range and a scanning angle of 275°.

Outstanding availability even in harsh weather conditions

MOVING BEYOND LIMITS

With the outdoorScan3, SICK is once again underscoring its sustainable innovation and technology leadership. The world's first safety laser scanner for outdoor use that is certified according to IEC 62998 facilitates simple and safe outdoor automation in entirely new dimensions. Whether in production and logistics processes, for monitoring hazardous areas, in mechanical engineering, or docking passenger boarding bridges, outdoorScan3 ensures people are always kept safe. It works with the same level of reliability and efficiency as our customers have come to expect from our indoor laser scanners. Disruptive weather influences such as rain, snow, sunlight, and fog are filtered out with ease by the safety laser scanner. As a result, it offers virtually limitless potential for increasing productivity and opening up new business fields. And as for how to handle it, this is no different to what you are already used to from our microScan3.

Additional information:
→ www.sick.com/outdoorScan3

Intelligent functions

With 128 individually adjustable fields, 8 simultaneous protective fields, and simple measurement data output via Ethernet, the outdoorScan3 is exceptionally versatile. Further functions will follow, such as automatic, weather-dependent speed adjustment for automated guided vehicles. The scanner can be adapted to suit a whole host of different applications using the Safety Designer configuration software.

Flexibility for safe, customized automation processes

Functional design

With its rugged design and the unique shape of the optics cover, the outdoorScan3 is perfectly suited to the challenges of outdoor use regardless of weather influences. The vibration-resistant and shockproof mounting system gives the outdoorScan3 a real edge in this regard. Even commissioning is quick and easy in combination with the M12 standard cabling.

User-friendly and suited for outdoor use

OUTDOOR AUTOMATION IN A NEW DIMENSION

Many logistics specialists, engineers, and safety officers have been eagerly awaiting the safe automation of industrial processes in the outdoor area. Human-machine-cooperation outside of buildings opens up virtually limitless opportunities for present and future fields of application. The outdoorScan3 enables much more efficient and productive implementation of applications and also ensures maximum personal safety. It even features tried-and-tested technology that has been certified and optimized for outdoor use.

Safe human-machine cooperation

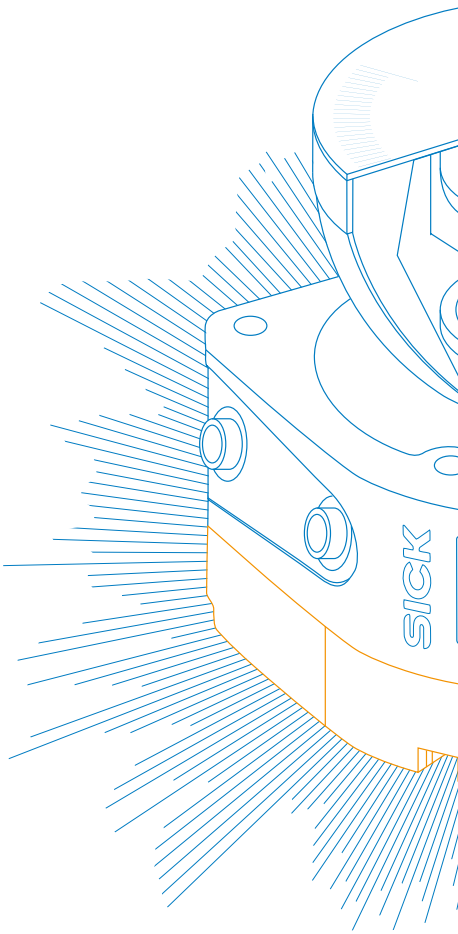
With the outdoorScan3, people and machines can now work outside together safely. This allows automated guided vehicles (AGVs) to travel at higher speeds and even ensures a continuous material flow between various production halls. Quite simply, the outdoorScan3 enables you to increase your productivity both indoors and outdoors.

Reliable for high productivity

Highly cost-effective

The low maintenance costs during operation and the excellent performance of the outdoorScan3 make it extremely cost-effective. The total cost of ownership is impressive compared to existing safety concepts, and you can even increase your output volume at the same time thanks to the uncomplicated and safe automation processes.

Easy integration and low maintenance costs



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Facing challenging weather conditions

The outdoorScan3 functions reliably and safely even in the most challenging weather conditions. No matter if there's sun, rain, fog, or snow, outdoorScan3 takes personal safety and productivity to a new level – regardless of potentially disruptive factors.

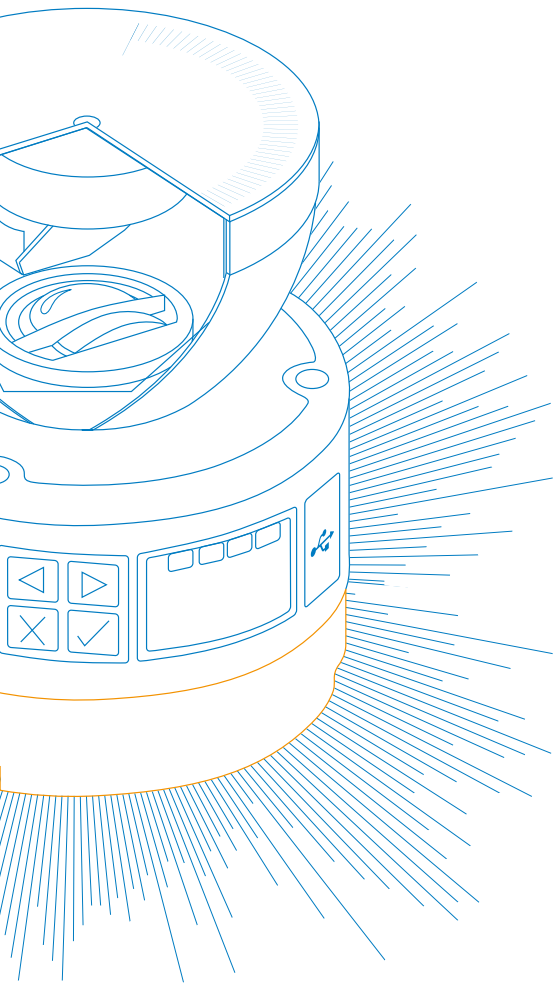
Thanks to the reliable safety technology from SICK, you are always ideally prepared for any weather with the outdoorScan3.


Sunlight


Rain


Snow


Fog



Intuitive operation

With the outdoorScan3, commissioning and handling during operation are just as easy, intuitive, and convenient as with our safety laser scanners for indoor use. This is helped along by the Safety Designer configuration software in addition to a wide range of diagnostic options via the display, pushbuttons, or network.

Tried-and-tested commissioning and operating concept from indoor safety laser scanners

New automation options

What could not be automated so far due to a lack of adequate safety concepts is now becoming economical. This creates the perfect opportunities for companies to open up new business fields.

A greater level of automation – even in new business fields

outdoorScan3 FOR DIVERSE FIELDS OF APPLICATION

Automated guided vehicles

The safety requirements on automated guided vehicles outdoors are high: The safety of people must be ensured at all times even under weather conditions like bright sunlight, rain, snow, wind, fog or contamination of the laser scanner, and unscheduled machine stops should be kept to a minimum. The outdoorScan3 enables the seamless connection of production and logistics processes in both indoor and outdoor environments. With the outdoorScan3, automated guided vehicles can travel safely beyond the confines of production halls and navigate from hall to hall without any problems.

Take a look on our website to see the outdoorScan3 in use:
➜ www.sick.com/outdoorScan3

Connecting and disconnecting passenger boarding bridges

Increasing cost pressure and number of passengers require a higher degree of automation in airports, for example with the automated connection and disconnection of passenger boarding bridges. With the outdoorScan3, fast and smooth connection and disconnection can even be achieved under extreme weather conditions on the runway. Personal safety is always a crucial concern here in case employees find themselves in the hazardous area during maneuvering.

Hazardous area protection for stationary applications

From basic safety mat replacement and presence detection through to protecting multiple hazardous areas at the same time, the outdoorScan3 is always the ideal choice. Suitable horizontal protective fields can be set up and monitored to protect against the dangers posed by hazardous machines, plants or open spaces. As we move towards the Smart Factory, we find humans, machines and autonomous systems working ever closer together. Safety for humans is always a primary focus, without ever losing sight of productivity.

GETTING PROJECTS OFF THE GROUND

Once the foundations have been laid and the legal framework has been defined, you then have various options available when it comes to safely automating processes in the outdoor area. We can support you with safeguarding your individual applications.

Normative requirements

Which standards and directives have to be taken into account?

Machine safety is a crucial consideration for the outdoorScan3. In this context, the ISO 13849-1 safety standard defines the scope of application for the laser scanner. As part of the mandatory hazard assessment and risk analysis, it is essential to check whether the normative framework is appropriate for the application.

Application requirements

What are the concrete requirements of your application?

The outdoorScan3 operates reliably with patented scanning technology. To achieve the perfect balance between a high level of safety and a high level of availability, the environmental influences on the application must be considered – just as they are for indoor applications. This is particularly important when used outdoors with regard to the expected availability of the safety laser scanner. Appropriate remedial measures may need to be taken if necessary. We are happy to help you.

Applications

The intended use covers applications with the following features:

- Industrial production and logistics areas
- Non-public areas: Access for authorized personnel only
- Moderate environmental conditions (similar to the temperate climates defined in IEC 60721-2-1, for example)

THE SAFETY LASER SCANNER FOR OUTDOOR AUTOMATION

Product description

The outdoorScan3 safety laser scanner protects people in a wide range of mobile and stationary outdoor applications. Thanks to intelligent algorithms and the outdoor safeHDDM® scanning technology, operation is reliable even in harsh weather conditions, which considerably increases your productivity. The outdoorScan3 stands out thanks to the rugged housing, smart connectivity and advanced diagnostic functions. The Safety Designer configuration software from SICK also enables easy and intuitive operation.

At a glance

- Certified in accordance with ISO 13849 and IEC 62998 for protecting people indoor and outdoor
- outdoor safeHDDM® scanning technology
- Individual field settings
- Optimized product design for outdoor use
- Protective field range: 4 m
- Up to 128 freely configurable fields
- Safe networking with Flexi Soft safety controller

Your benefits

- High productivity due to safe human-machine cooperation in outdoor areas
- Outstanding availability even in harsh weather conditions
- Flexibility for safe, customized automation processes
- User-friendly and suited for outdoor use
- Easy access to diagnostic data
- Precise localization due to highly precise measurement data
- Continuous material flow due to intralogistics processes between buildings

Additional information

→ www.sick.com/outdoorScan3

For more information, simply enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.

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Detailed technical data

More detailed data can be found in the operating instructions. Download ➜ www.sick.com/outdoorScan3

Features

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Protective field range	4 m	
Warning field range	40 m	
Number of simultaneously monitored protective fields	≤ 4 [1]	≤ 8
Number of fields	8 [2]	128
Number of monitoring cases	2	128
Scanning angle	275°	
Resolution (can be configured)	50 mm, 70 mm	
Angular resolution	0.39°	
Response time	≥ 90 ms	≥ 115 ms
Protective field supplement	65 mm	

[1] Please note the number of available OSSD pairs.

[2] Please note the number of available inputs and OSSD pairs.

Safety-related parameters

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Type	Type 3 (IEC 61496)	
Safety integrity level	SIL2 (IEC 61508) SILCL2 (EN 62061)	
Category	Category 3 (ISO 13849)	
Performance level	PL d (ISO 13849)	
Performance class SRS/SRSS	Performance class D (IEC/TS 62998)	
PFH_D (mean probability of a dangerous failure per hour)	8.0×10^{-8} (ISO 13849)	
T_M (mission time)	20 years (ISO 13849)	
Safe state in the event of a fault	In each OSSD pair, at least one OSSD is in the OFF state.	The safety outputs via the network are logic 0.

Functions

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Restart interlock	✔	
External device monitoring (EDM)	✔	–
Multiple sampling	✔	
Monitoring case switching	✔	
Simultaneous monitoring	✔	
Static protective field switching	✔	
Integrated configuration memory	✔	
Measurement data output via Ethernet	–	✔

Interfaces

outdoorScan3 Core I/O

Connection type	Male connector, M12, 8 pin, A-coded (common male connector for power supply and inputs and outputs)
Universal I/Os	3
Outputs	
OSSD pairs	1
Configuration method	PC with Safety Designer (Configuration and Diagnostic Software)
Configuration and diagnostics interface	USB 2.0, Mini-USB
Display elements	Graphic color display, LEDs

outdoorScan3 Pro – EtherNet/IP™

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
Universal I/Os	3
Outputs	
OSSD pairs	0
Safety outputs via network	8
Configuration method	PC with Safety Designer (Configuration and Diagnostic Software)
Configuration and diagnostics interface	USB 2.0, Mini-USB
Fieldbus, industrial network	EtherNet/IP™
Protocol	CIP Safety™
Device properties	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

Electrical data

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Protection class	III (EN 61140)	
Supply voltage V_s	24 V DC (16.8 V DC ... 30 V DC)	
Power consumption	7 W (without output load)	

Mechanical data

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Dimensions (W x H x D)	112 mm x 135 mm x 111 mm	112 mm x 151 mm x 111 mm
Weight	1.15 kg	1.45 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

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Enclosure rating	IP65 (IEC 60529)	
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	
Ambient conditions		
Rain	10 mm/h [1]	
Snowfall	≤ 3 mm/h (SWE, Snow Water Equivalent) [1]	
Fog	≥ 50 m (MOR, Meteorological Optical Range) [1]	
Vibration resistance	0.35 mm, 10 Hz ... 60 Hz (IEC 60068-2-6, IEC 61496-1, CLC/TS 61496-3) 5 g, 60 Hz ... 150 Hz (IEC 60068-2-6, IEC 61496-1, CLC/TS 61496-3)	
Shock resistance		
Continuous shock	10 g, 16 ms (IEC 60068-2-27, IEC 61496-3)	
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

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Type of light	Pulsed laser diode	
Wave length	845 nm	
Detectable remission	1.8% to several 1000%	
Laser class	1M (21 CFR 1040.10 and 1040.11, IEC 60825-1)	

Ordering information

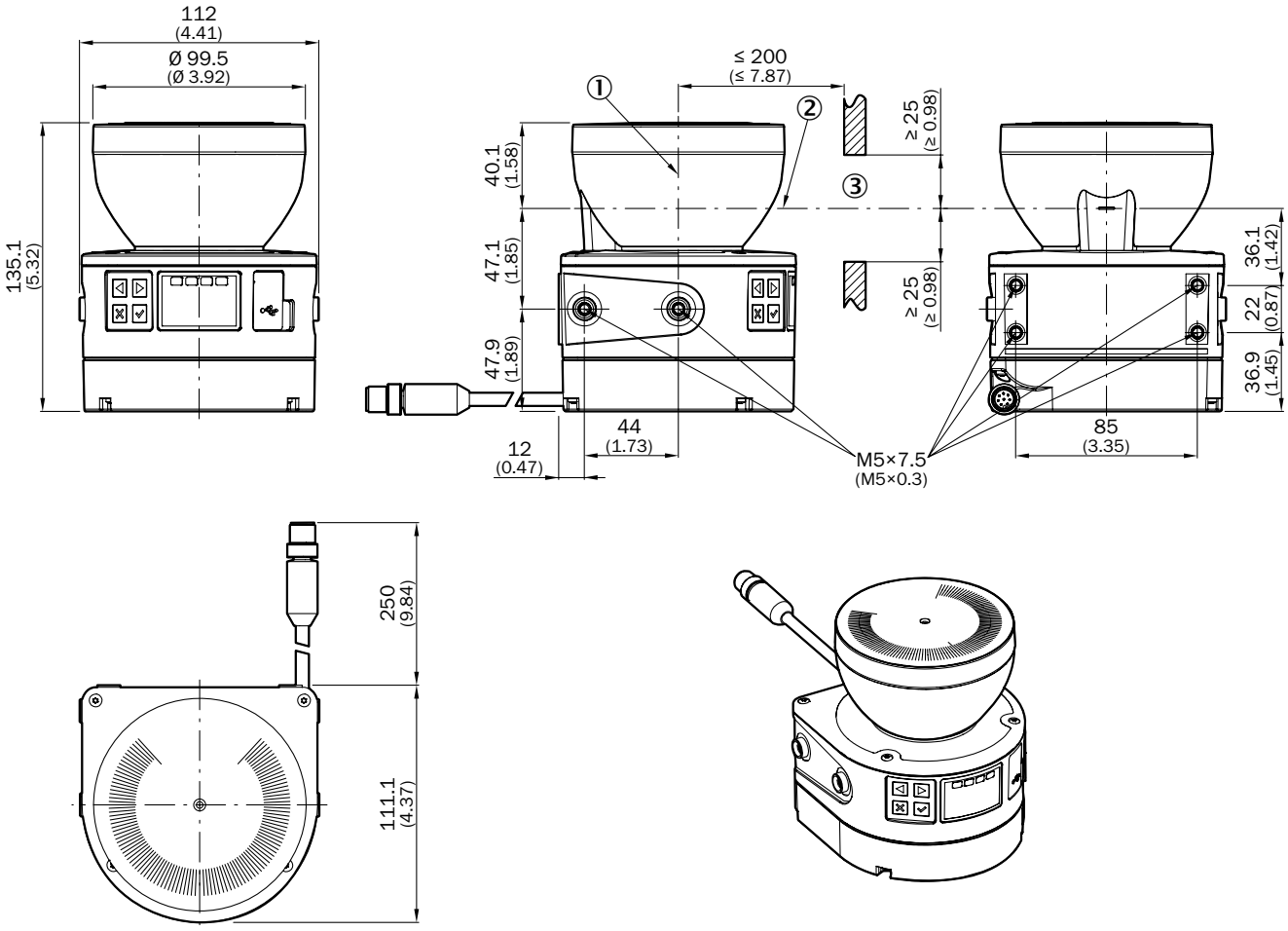
Items supplied outdoorScan3:

- Safety laser scanner with system plug
- Cover plate (for EtherNet/IP™)
- Safety instruction
- Mounting instructions
- Operating instructions for download ➜ **www.sick.com/outdoorScan3**
- Safety Designer (configuration and diagnostic software) for download ➜ **www.sick.com/safety_designer**

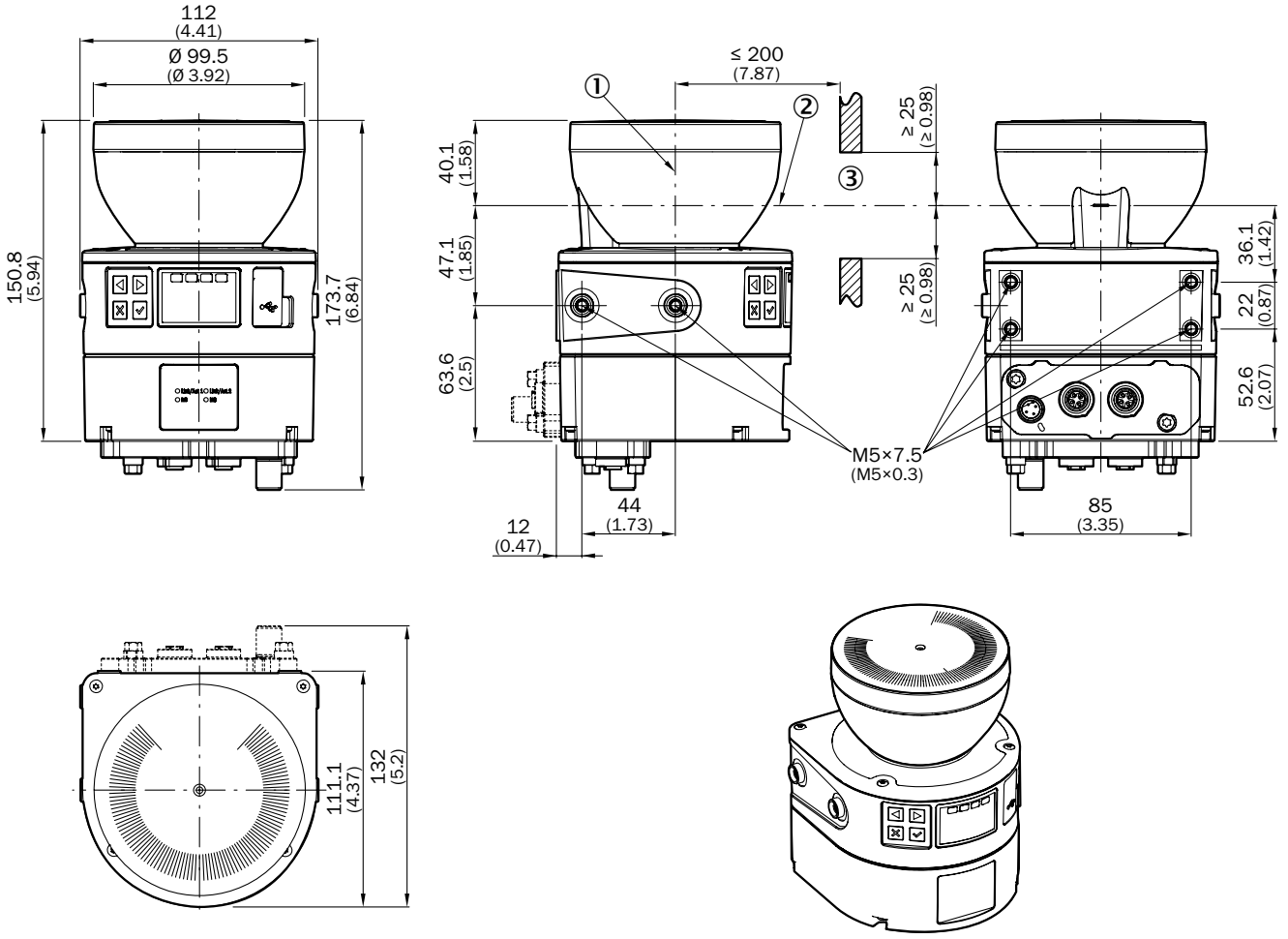
Variant	Integration in the control system	Protective field range	Type	Part no.
outdoorScan3 Core I/O	Local inputs and outputs (I/O)	4 m	MICS3-AAUZ40AZ1P01	1094452
outdoorScan3 Pro – EtherNet/IP™	CIP Safety™ over EtherNet/IP™	4 m	MICS3-CBUZ40IZ1P01	1094472

Dimensional drawing

outdoorScan3 Core I/O

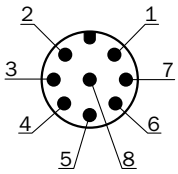


outdoorScan3 Pro – EtherNet/IP™



Pin assignment

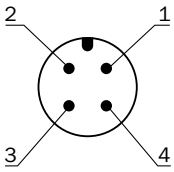
outdoorScan3 Core I/O



Pin	Designation	Function
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/O 3	Universal I/O 3, configurable
8	FE	Functional earth/shielding

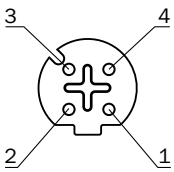
outdoorScan3 Pro – EtherNet/IP™

Voltage supply



Pin	Designation	Function
1	+24 V DC	Supply voltage +24 V DC
2	NC	Not connected
3	0 V DC	Supply voltage 0 V DC
4	FE	Functional earth/shielding

EtherNet/IP™ (2 x)



Pin	Designation	Function
1	TX+	Send data +
2	RX+	Receive data +
3	TX-	Send data -
4	RX-	Receive data -
Housing	SH	Shielding

Accessories required for commissioning

Description	Number	Items supplied	Further information	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
Mounting bracket	1	–	→ Mounting brackets and plates	●	●
Connecting cable I/O	1	–	→ Plug connectors and cables	●	–
Connecting cable for EtherNet/IP™	1	–	→ Plug connectors and cables	–	●
M12-RJ45 connection cable for EtherNet/IP™	1	–	→ Plug connectors and cables	–	●
Connection cable for configuration and diagnosis	1	–	→ Plug connectors and cables	●	–
Safety Designer (configuration and diagnostic software)	1	–	→ www.sick.com/safety_designer	●	●
Operating instructions	1	–	→ www.sick.com/outdoorScan3	●	●

Accessories

Mounting systems

Mounting brackets and plates

Figure	Description	Packing unit	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Mounting bracket	1 piece	Mounting kit 1a	2073851	●	●
	Mounting bracket with protection of optics hood	1 piece	Mounting kit 1b	2074242	●	●
	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)	1 piece	Mounting kit 2a	2073852	●	●
	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)	1 piece	Mounting kit 2b	2074184	●	●
	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)	1 piece	Mounting kit 3	2103049	●	●

Device protection (mechanical)

Protective housings and protective pipes

Figure	Description	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Weather hood (only in conjunction with mounting kit 3)	Weather hood	2103050	●	●

Other mounting accessories

Mounting tools

Figure	Description	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	For loosening and tightening M12 plug connectors to the system plug with defined torque (0,4 Nm)	Torque screwdriver with attachment for M12 plug connector	2081618	–	●

Connection systems

Plug connectors and cables

Connecting cables

- **Model:** PUR, halogen-free, unshielded

Figure	Connection type		Conductor cross-section	Length of cable	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Female connector, M12, 4-pin, straight	Flying leads	0.75 mm²	2 m	DOL-1204G02MC75KM0	2079290	–	●
				5 m	DOL-1204G05MC75KM0	2079291	–	●
				10 m	DOL-1204G10MC75KM0	2079292	–	●
				20 m	DOL-1204G20MC75KM0	2089703	–	●
	Female connector, M12, 4-pin, angled	Flying leads	0.75 mm²	2 m	DOL-1204W02MC75KM0	2079293	–	●
				5 m	DOL-1204W05MC75KM0	2079294	–	●
				10 m	DOL-1204W10MC75KM0	2079295	–	●
				20 m	DOL-1204W20MC75KM0	2089704	–	●
	Female connector, M12, 8-pin, straight	Flying leads	0.25 mm²	2 m	DOL-1208G02MD25KM1	2079314	●	–
				5 m	DOL-1208G05MD25KM1	2079315	●	–
				10 m	DOL-1208G10MD25KM1	2079316	●	–
				20 m	DOL-1208G20MD25KM1	2092105	●	–
				30 m	DOL-1208G30MD25KM1	2092106	●	–

Connection cables

- **Model:** PUR, halogen-free, shielded
- **Conductor cross-section:** 2 x 2 x 0.14 mm²

Figure	Connection type		Length of cable	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Male connector, M12, 4-pin, straight	Male connector, M12, 4-pin, straight	2 m	SSL-1204-G02ME90	6045222	–	●
			5 m	SSL-1204-G05ME90	6045277	–	●
			10 m	SSL-1204-G10ME90	6045279	–	●
			20 m	SSL-1204-G20ME90	6063693	–	●
	Male connector, M12, 4-pin, angled	Male connector, M12, 4-pin, straight	2 m	SSL-1204-H02ME90	6047908	–	●
			5 m	SSL-1204-H05ME90	6047909	–	●
			10 m	SSL-1204-H10ME90	6047910	–	●
			20 m	SSL-1204-H20ME90	6063694	–	●
	Male connector, M12, 4-pin, straight	Male connector, RJ45, 8-pin, straight	2 m	SSL-2J04-G02ME60	6047916	–	●
			5 m	SSL-2J04-G05ME60	6047917	–	●
			10 m	SSL-2J04-G10ME60	6047918	–	●
			20 m	SSL-2J04-G20ME60	6063700	–	●
	Male connector, M12, 4-pin, angled	Male connector, RJ45, 8-pin, straight	2 m	SSL-2J04-H02ME	6047911	–	●
			5 m	SSL-2J04-H05ME	6045287	–	●
			10 m	SSL-2J04-H10ME	6045288	–	●
			20 m	SSL-2J04-H20ME	6063701	–	●

- **Description:** For connecting the configuration connection to the USB interface on the PC

Figure	Connection type		Model	Length of cable	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Male connector, USB-A, straight	Male connector, Mini-USB, straight	Shielded	3 m	Connection cable	6042517	●	●
				5 m	Connection cable	6053566	●	●

- **Description:** Used to extend the USB interface by 10 m. The cable can be extended up to 20 m by plugging in another 10 m extension.

Figure	Connection type		Model	Length of cable	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Male connector, USB-A, straight	Female connector, USB-A, straight	Unshielded	10 m	USB extension cable, repeater	6069292	●	●

Power supply units and power supply cables

Figure	Input voltage	Output voltage	Output current	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
 Illustration may differ	100 V AC ... 240 V AC	24 V DC	≤ 2.1 A	PS50WE24V	7028789	●	●
			≤ 3.9 A	PS95WE24V	7028790	●	●

Reflectors and optics

Optics cloths

Figure	Description	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Cloth for cleaning the front screen	Lens cloth	4003353	●	●

Further accessories

Test and monitoring tools

Figure	Description	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
 Illustration may differ	Alignment aid for detecting the infrared light of SICK sensors.	Alignment aid	2101720	●	●
 Illustration may differ	Scan finder, receiver to localize infrared scans	Scan-Finder LS-80L	6020756	●	●

Cleaning agent

Figure	Description	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Plastic cleaner and care product, anti-static, 0.5 liter	Plastic cleaner	5600006	●	●

Spare parts

Figure	Description	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Cover plate (91.8 mm x 31.3 mm) with screws for closing the unused opening for the system plug	outdoorScan3 cover plate spare part set	2101643	–	●

Replacement sensors without system plug

Figure	Integration in the control system	Protective field range	Spare part for	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	Local inputs and outputs (I/O)	4 m	1094452	MICS3-AAUZ40AZ1	1094451	●	–
	CIP Safety™ over EtherNet/IP™	4 m	1094472	MICS3-CBUZ40IZ1	1094471	–	●

System plugs

Figure	Description	Model	Type	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™
	System connection M12, 8-pin	Integrated configuration memory	MICSX-UBIZZZZZ1	2101638	●	–
	System connection; voltage supply: 1 x M12 male connector, 4-pin, A-coded, Ethernet: 2 x M12 female connector, 4-pin, D-coded	–	MICSX-RANNZZZZ1	2102812	–	●

You can find additional accessories online ➜ www.sick.com/outdoorScan3

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SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 8,800 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, SICK is always close to its customers. 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.

SICK has extensive experience in various industries and understands their processes and requirements. With intelligent sensors, SICK delivers exactly what the 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 SICK a reliable supplier and development partner.

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

That is "Sensor Intelligence."

Worldwide presence:

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Hong Kong, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → www.sick.com

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