



outdoorScan3

THE SAFETY LASER SCANNER FOR OUTDOOR AUTOMATION

Safety laser scanners

SICKSensor Intelligence.



Certified for outdoors



The outdoorScan3 is designed to allow man and machine to work safely side by side. It 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.

Outdoor safeHDDM® scanning technology



The outdoorScan3 is exceptionally well-suited for protecting both stationary and mobile outdoor applications. The patented safeHDDM® technology from SICK used in the safety laser scanner has been specifically enhanced for outdoor applications through the addition of special algorithms. It reliably detects people without the need for additional protective devices.

- Increase your productivity outdoors with safe human-machine cooperation
- You will be impressed with its high availability, even in unfavorable weather conditions

MOVING BEYOND LIMITS

The world's first IEC 62998-certified safety laser scanner for indoor and outdoor use opens up a whole new world of safe and easy automation.

With the outdoorScan3, people and machines can now work outside together safely. This leads to higher AGV (Automated Guided Vehicles) speeds and a continuous material flow between several production halls. Quite simply, the outdoorScan3 enables you to increase your productivity both indoors and outdoors.



Additional information:

→ www.sick.com/outdoorScan3



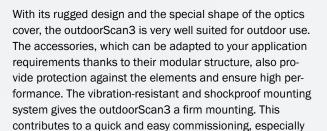
Intelligent functions

The outdoorScan3 can be adapted to suit a whole host of different applications using the intuitive Safety Designer configuration software. With 128 individually adjustable fields, 8 simultaneous protective fields, and simple measurement data output via Ethernet, the laser scanner is very versatile. Various diagnostic options via display, pushbutton or network enable quick troubleshooting and increase the availability of your machine.



Take advantage of the high flexibility for your individual automation processes

Functional design



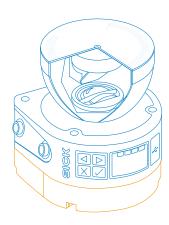


Benefit from the user-friendly design optimized for outdoor use

in combination with the standard M12 cabling..

A NEW DIMENSION OF AUTOMATION

Many logistics specialists, engineers, and safety officers have been eagerly awaiting the safe automation of industrial processes in outdoor areas. 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.



Tested by the "Outdoor Technology Center"

In the Outdoor Technology Center, the availability and reliability of the outdoorScan3 in harsh working environments are tested and advanced on a daily basis. Sensor solutions for automation in outdoor areas are tested here in seven test areas. A mobile test vehicle is in use, as are stationary applications for product and solution development.

Facing challenging weather conditions

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

You are well-prepared even for changing weather conditions with reliable safety technology from SICK.



Sunlight



Rain



Snow



Fog



Application-oriented development: The outdoorScan3 is tested under real ambient conditions at the SICK Outdoor Technology Center.



Sophisticated accessories

The accessory components of the outdoorScan3 safety laser scanner were specially developed for outdoor use and can be combined to fit your application requirements.

The accessories reliably reduce influences caused by weather and ensure the availability of the safety laser scanner. The sophisticated components also allow the outdoorScan3 to be quickly and easily integrated into your automation solution.

Additional information on accessories:

→ www.sick.com/outdoorScan3

outdoorScan3 -FOR DIVERSE FIELDS OF APPLICATION



Greater availability of AGVs due to weatherdependent speed adjustment

The safety requirements for mobile applications in outdoor areas are demanding: Personal safety must be ensured in unfavorable weather conditions, even if the laser scanner gets dirty. At the same time, unplanned machine stops should be reduced.

The AGV Dynamic Weather Assist function block of the Flexi Soft safety controller makes it possible to adapt protective fields to changing weather conditions. This enables the outdoorScan3 to dynamically adjust the speed of the AGV, thereby smoothly linking production sequences and logistics processes both indoors and outdoors.

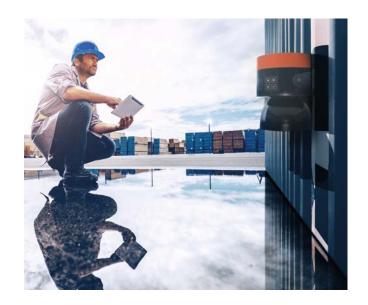
*The efficiency of the AGV Dynamic Weather Assist was examined in a long-term stationary test over a period of 12 months at the Outdoor Technology Center. The evaluation showed a significant increase in availability of the outdoorScan3 when used with the AGV Dynamic Weather Assist.

For more information on the AGV Dynamic Weather Assist, visit

→ www.sick.com/AGV_Dynamic_Weather_Assist

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 the right 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.



Constant condition monitoring

The Monitoring Box from SICK is a browser application that lets you administer the sensor and machine data and visualize it in a dashboard. Status changes can be easily monitored and quickly diagnosed.

If necessary, an alert can be sent in the event of any significant change in the device status. This enables operators to intervene in a timely manner. This ensures the availability and productivity of your systems.

Additional information on the Monitoring Box

www.sick.com/Monitoring_Box



YOUR PARTNER FOR PRODUCTIVE OUTDOOR SAFETY SOLUTIONS

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 outdoor areas. SICK can help you protect your individual applications.

Normative requirements

Machine safety is a crucial consideration for the outdoorScan3. In this context, the ISO 13849-1 safety standard defines the range of application for the laser scanner.

The systematic approach via IEC62998 allows for the intended use of the outdoorScan3 in outdoor areas.

Application requirements

For outdoor areas, a holistic view of the interplay between sensor performance, accessory components, machine integration and organizational measures is the key to success.

Applications

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

CREATING SAFE PRODUCTIVITY

THE SAFETY LASER SCANNER FOR OUTDOOR AUTOMATION



Product description

The outdoorScan3 safety laser scanner protects people outdoors in a wide range of mobile and stationary applications. Thanks to intelligent algorithms and the outdoor safeHDDM® scanning technology, the sensor achieves high productivity even in unfavorable weather conditions. The outdoorScan3 stands

out thanks to the rugged housing, smart connection technology and advanced diagnostic functions. Modular accessories are also available to meet your application requirements. The Safety Designer configuration software from SICK enables intuitive operation.

At a glance

- Certified in accordance with ISO 13849 and IEC 62998 for protecting people indoors and outdoors
- Outdoor safeHDDM® scanning technology
- Modular accessories for high performance
- Up to 128 freely configurable fields
- Diagnosis with Safety Designer and monitoring app
- Speed adjustment with the AGV Dynamic Weather Assist

Your benefits

- High productivity due to safe human-machine cooperation in outdoor areas
- Outstanding availability even under unfavorable weather conditions
- User-friendly and suitable for outdoor use
- Easily adaptable protective fields for safe automation processes
- Fast troubleshooting thanks to easy access to diagnostic data
- Continuous and reliable material flow both in- and outdoors – even in changing weather conditions



Additional information

Detailed technical data 9
Ordering information
Dimensional drawing 14
Pin assignment
Accessories

→ 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



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™	outdoorScan3 Pro – PROFINET
Application	Outdoor 1)		
Protective field range	4 m		
Warning field range	40 m		
Number of simultaneously monitored fields	≤ 4 ^{2) 3)}	≤ 8 ²⁾	
Number of fields	8 4)	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		

 $^{^{1)}}$ The safety laser scanner is suitable for use in industrial environments (indoors and outdoors).

Safety-related parameters

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro – PROFINET
Туре	Type 3 (IEC 61496)		
Safety integrity level	SIL2 (IEC 61508)		
Category	Category 3 (EN ISO 13849)		
Performance level	PL d (EN ISO 13849)		
Performance class SRS/SRSS	Performance class D (IEC/TS 6	52998)	
PFH _D (mean probability of a dangerous failure per hour)	8.0 x 10 ⁻⁸ (EN ISO 13849)		
T _M (mission time)	20 years (EN 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 netv	vork are logic 0.

Functions

	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro – PROFINET
Restart interlock	✓		
External device monitoring (EDM)	✓	-	
Multiple sampling	✓		
Monitoring case switching	✓		
Simultaneous monitoring	V		
Static protective field switching	✓		
Integrated configuration memory	✓		
Measured data output	None	Via Ethernet	

²⁾ Protection or warning fields.

³⁾ Please note the number of available OSSD pairs.

⁴⁾ Please note the number of available inputs and OSSD pairs.

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
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, Ethernet
Fieldbus, industrial network	EtherNet/IP TM
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

outdoorScan3 Pro - PROFINET

0	
Connection type	4
Voltage supply	1 x male connector, M12, 4-pin, A-coded
	2 x M12 female connectors, 4-pin, D-coded
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, 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
1 of t properties	Auto-negotiation
	Auto-crossover (MDIX)
	Auto-polarity
Diagnostics	I&M data sets 0 5 PROFINET alarms
Additional services	3 3 3 8
	F_iPar_CRC
	Acyclic read-/write services for communication via TCI SNTP (client and server)
Display elements	Graphic color display, LEDs
, ,	

Electrical data

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™	outdoorScan3 Pro – PROFINET
Dimensions (W x H x D)	See dimensional drawings		
Weight	1.15 kg / 1.3 kg (depending on type)	1.45 kg / 1.6 kg (depending o	n type)
Housing material	Aluminum		
Housing color	RAL 2004 (pure orange), RAL 9	9005 (black)	
Optics cover material	Polycarbonate		
Optics cover surface finish	Outside with scratch-resistant	coating	

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)
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	\geq 50 m (MOR, Meteorological Optical Range) ¹⁾
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".

Additional features airWiper kits

Compressed air cleaning	Possible
Operating medium	Compressed air
Purity class	ISO 8573-1 [7:4:4]
Input pressure	Typ. 400 kPa (200 kPa 600 kPa, 2.0 bar 6.0 bar)
Temperature of compressed air	≤ +50 °C
Compressed air connections	4 x push-pull connection for compressed air hose (Ø 4 mm), M5 male thread
Material of the airWiper	Aluminum (anodised)

Other information

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 including system plug or sensor kit for compressed air cleaning, including system plug
- Cover plate (for EtherNet/IP™ and PROFINET)
- · 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	Compressed air cleaning	Туре	Part no.
	Local inputs and out-		Not possible	MICS3-AAUZ40AZ1P01	1094452
outdoorScan3 Core I/O	puts (I/O)	4 m	Possible	airWiper Kit out- doorScan3 Core I/O	1124784
outdoorScan3 Pro – EtherNet/IP™	CIP Safety™ over Ether- Net/IP™	4 m	Not possible	MICS3-CBUZ40IZ1P01	1094472
			Possible	airWiper Kit out- doorScan3 Pro – Ether- Net/IP™	1124781
			Not possible	MICS3-CBUZ40PZ1P01	1094474
outdoorScan3 Pro – PROFINET	PROFINET PROFIsafe	4 m	Possible	airWiper Kit out- doorScan3 Pro – PROF- INET	1128913

Function block of AGV Dynamic Weather Assist:

System requirements:

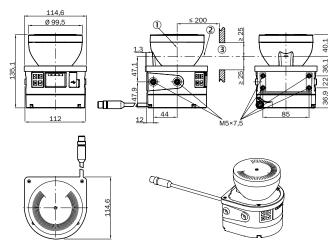
- The function block requires (at least) one outdoorScan3 safety laser scanner and one Flexi Soft CPU0 safety controller. Scope of delivery:
- Software (Safety Designer project file with control logic) as well as operating instructions

Variant	Product type	Configuration software	Safety controller	Туре	Part no.
AGV Dynamic Weather Assist	Software	Safety Designer	Flexi Soft	SOW/DWA-FX00402010	1615375

For more information, visit → www.sick.com/AGV_Dynamic_Weather_Assist

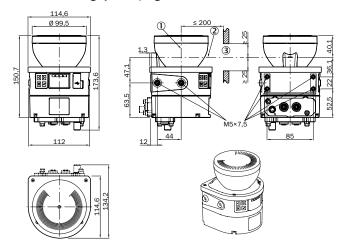
Dimensional drawing

outdoorScan3 Core I/O, sensor including system plug



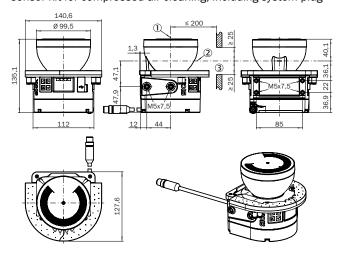
- ① Mirror axis of rotation
- 2 Scan plane
- 3 Required viewing slit

outdoorScan3 Pro - EtherNet/IP™, outdoorScan3 Pro - PROFINET, sensor including system plug



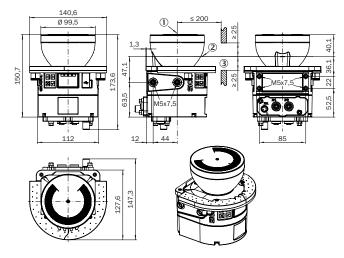
- ① Mirror axis of rotation
- ② Scan plane
- 3 Required viewing slit

outdoorScan3 Core I/O, sensor kit for compressed air cleaning, including system plug



- ① Mirror axis of rotation
- 2 Scan plane
- 3 Required viewing slit

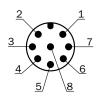
outdoorScan3 Pro – EtherNet/IP™, outdoorScan3 Pro – PROFINET, sensor kit for compressed air cleaning, including system plug



- ${\small \textcircled{1}} \ {\small Mirror \ axis \ of \ rotation}$
- 2 Scan plane
- 3 Required viewing slit

Pin assignment

outdoorScan3 Core I/O



PIN	Designation	Function
1	+24 V DC	+24 V DC supply voltage
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/0 1	Universal I/O 1, configurable
6	Uni I/0 2	Universal I/O 2, configurable
7	Uni I/0 3	Universal I/O 3, configurable
8	FE	Functional earth/shield

outdoorScan3 Pro – EtherNet/IP $^{\text{TM}}$ outdoorScan3 Pro – PROFINET

Voltage supply



EtherNet/IP $^{\text{TM}}$ (2 x)



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

PIN	Designation	Function
1	TX+	Send data +
2	RX+	Receive data +
3	TX-	Send data -
4	RX-	Receive data -
Thread	SH	Shielding

Accessories required for commissioning

Description	Quantity	Scope of delivery	Additional information	outdoorScan3 Core I/0	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro – PROFINET
Mounting kit	1	-	→ Mounting brackets and plates	•	•	•
I/O connecting cable	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 diagnostics	1	-	→ Plug connectors and cables	•	-	-
Safety Designer (configuration and diagnostic software)	1	-	→ www.sick.com/safety_designer	•	•	•
Operating instructions	1	-	→ www.sick.com/outdoorScan3	•	•	•

The compressed air supply, controller, valves, etc. are not part of the airWiper. These are also required.

Accessories

All accessories are also suitable for the respective airWiper variant.

Mounting systems

Mounting brackets and plates

	Description	Packing unit	Туре	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro - PROFINET
	Mounting bracket, Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	1 piece	Mounting kit 1a	2073851	•	•	•
	Mounting bracket with protection of optics hood, Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A	1 piece	Mounting kit 1b	2074242	•	•	•
	Alignment bracket, alignment with crosswise 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-DU-RA face 5803A	1 piece	Mounting kit 2a	2073852	•	•	•
	Alignment bracket, alignment with crosswise 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-DU-RA face 5803A	1 piece	Mounting kit 2b	2074184	•	•	•
-	Alignment bracket with protection for the optics cover, alignment with cross-wise axis and depth axis possible	1 piece	Mounting kit 3	2103049	•	•	•

Device protection (mechanical)

	Description	Packing unit	Туре	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro – PROFINET
	Splash guard, only in conjunction with mounting kit 3 (2103049)	1 piece	Splash guard	2123205	•	•	•
9	Spare part for splash guard (2123205)	1 piece	Splash guard inlay	2123662	•	•	•
8	Weather hood (only in conjunction with mounting kit 3)	1 piece	Weather hood	2103050	•	•	•

Mounting tools

Description	Туре	Part no.			
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	-	•	•

Test and monitoring tools

	Description	Items supplied	Туре	Part no.			
SICK	Alignment aid for detecting the infrared light (wavelength 780 nm to 1050 nm) of SICK sensors	Alignment aid, pedestal, display aid, mounting instructions	Alignment aid	2101720	•	•	•
	50 mm diameter, 500 mm length	-	Test rod 50 mm	2095105	•	•	•
	70 mm diameter, 500 mm length	-	Test rod 70 mm	2095139	•	•	•
	Test rod holder for test rods with 50 mm and 70 mm diameter	-	Test rod holder	4096204	•	•	•

Plug connectors and cables

Connecting cables

Connect	ion type	Model	Conductor cross-section	Length of cable	Туре	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro – PROFINET
Female connector,	Flying	PUR,	() 155 mm ²	2 m	YF2A68-020UA7XLEAX	2108120	•	-	-
M12, 8-pin, straight	leads	shielded		20 m	YF2A68-200UA7XLEAX	2108133	•	-	-
Female connector,	Flying	PUR, hal-	0,75 mm ²	2 m	YG2A64-020UE1XLEAX	2108122	-	•	•
M12, 4-pin, leads angled	ogen-free, shielded	0,75 mm	10 m	YG2A64-100UE1XLEAX	2108123	-	•	•	

Connection cables

	Connect	ion type	Model	Conductor cross-section	Length of cable	Туре	Part no.			
	Male	Male	PUR, hal-	0.0	5 m	SSL-1204-G05ME90	6045277	-	•	•
	connector, M12, 4-pin,	connector, M12, 4-pin,	ogen-free,	2 x 2 x 0.14 mm ²	10 m	SSL-1204-G10ME90	6045279	-	•	•
	straight	straight	shielded	hielded	20 m	SSL-1204-G20ME90	6063693	-	•	•
	Male connector,	Male connector, M12, 4-pin, straight	PUR, hal- ogen-free, shielded	2 x 2 x 0.14 mm ²	20 m	SSL-1204-H20ME90	6063694	-	•	•
	M12, 4-pin, angled	Male connector,	PUR, hal-	0.44	5 m	SSL-1204-W05ME	6050633	-	•	•
ताक ताक		M12, 4-pin, angled ogen-free, shielded	0.14 mm ²	10 m	SSL-1204-W10ME	6050634	-	•	•	
68	Male connector, M12, 4-pin, angled	Male connector, PUR,	2 x 2 x	2 m	YN2D34-020PN4MRJA4	2108116	-	•	•	
		RJ45, 4-pin, straight	shielded	0.34 mm ²	10 m	YN2D34-100PN4MRJA4	2108141	-	•	•

Figure	Connect	ion type	Туре	Length of cable	Туре	Part no.			
	Male connector,	Male connector,	Shielded	3 m	Connection cable	6042517	•	•	•
66	USB-A, straight straight	,	Snieided	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	Connect	tion type	Туре	Length of cable	Туре	Part no.			
1	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

Input voltage	Output voltage	Output current	Туре	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP [™]	outdoorScan3 Pro - PROFINET
100 V AC 120 V AC 220 V AC 240 V AC	24 V DC	≤ 2.1 A	PS50WE24V	7028789	•	•	•
		≤ 3.9 A	PS95WE24V	7028790	•	•	•

Apps

Monitoring Box

	Brief description	Туре	Part no.			
Sex.	 Target application: Condition monitoring Description: The Monitoring Box Basic is a scalable digital service for monitoring service and process data. The outdoorScan3 is used to monitor object detections and the health status of the sensor. This provides an effective means of reducing downtimes. Contractual basis: SICK SaaS T&Cs Contract interval: Annual Data export (CSV): no Data integration into foreign systems (API): no Application view (if available): no 	Monitoring Box outdoorScan3 Basic	1614150	-	•	•
SC.	 Target application: Condition monitoring, Data Analytics, Predictive maintenance Description: The Monitoring Box Premium is a scalable digital service for monitoring, analyzing and predicting service and process data. The outdoorScan3 is used to monitor object detections and the health status of the sensor. Through additional analyses of the object detections, opportunities for increasing output can be identified. Contractual basis: SICK SaaS T&Cs Contract interval: Annual Data export (CSV): yes Data integration into foreign systems (API): yes Application view (if available): yes 	Monitoring Box outdoorScan3 Premium	1615508	-	•	•

AGV Dynamic Weather Assist

	Brief description	Туре	Part no.			
And hands the state of the stat	 Product type: Software Items supplied: Software (Safety Designer project file with functional logic) as well as operating instructions 	SOW/DWA-FX00402010	1615375	-	•	-

Safety Laser Scanner Visualization

	Brief description	Туре	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro - PROFINET
The latest beautiful and the latest	 Description: Company license Supported products: All microScan3 variants (except for microScan3 Core I/O variants)outdoorScan3 Pro – EtherNet/IP™ Operating system: Windows XP and higher, The software can also be started via a Windows-based virtual machine. 	SOW/VTL-LI004PCWI0	1116786	_	•	-
	 Description: Single-place license Supported products: All microScan3 variants (except for microScan3 Core I/O variants)outdoorScan3 Pro – EtherNet/IP™ Operating system: Windows XP and higher, The software can also be started via a Windows-based virtual machine. 	SOW/VTL-LI007PCWI0	1116788	-	•	-
	 Description: Factory license Supported products: All microScan3 variants (except for microScan3 Core I/O variants)outdoorScan3 Pro – EtherNet/IP™ Operating system: Windows XP and higher, The software can also be started via a Windows-based virtual machine. 	SOW/VTL-LI009PCWI0	1116787	-	•	-

Cleaning agent

	Description	Туре	Part no.			
Kunsk	Plastic cleaner and care product, anti-static, 0.5 liter	Plastic cleaner	5600006	•	•	•
sick	Cloth for cleaning optical surfaces	Lens cloth	4003353	•	•	•

Spare parts

Description	Туре	Part no.	outdoorScan3 Core I/O	outdoorScan3 Pro – EtherNet/IP™	outdoorScan3 Pro - PROFINET
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	-	•	•

Sensors without system plug

	Integration in the control system	Spare part for	Туре	Part no.			
	Local inputs and outputs (I/O)	1094452	MICS3-AAUZ40AZ1	1094451	•	-	-
	Local inputs and outputs (i/ 0)	1124784	airWiper Kit out- doorScan3 Core I/O	1124785	•	-	-
1 2 22	CIP Safety™ over EtherNet/IP™	1094472	MICS3-CBUZ40IZ1	1094471	-	•	-
Ng 222 G		1124781	airWiper Kit out- doorScan3 Pro – Ether- Net/IP™	1124782	-	•	-
12 22	PROFINET PROFIsafe	1094474	MICS3-CBUZ40PZ1	1094473	-	-	•
Ng 222 G		1128913	airWiper Kit out- doorScan3 Pro – PROF- INET	1128912	-	-	•

System plugs

	Description	Model	Туре	Part no.			
	System connection; cable 250 mm with M12 male connector, 8-pin	Integrated configuration memory	MICSX-UBIZZZZZ1	2101638	•	-	-
6,60	System connection; voltage supply: 1 x M12 male connector, 4-pin, A-coded, Ethernet: 2 x M12 female connector, 4-pin, D-coded	Integrated configuration memory	MICSX-RANNZZZZ1	2102812	-	•	•

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

WORKING WITH SICK IN A DIGITAL WORLD

Making your digital business environment comfortable

Find a suitable solution in next to no time

- · Online product catalog
- · Application Solver
- · Online configurators and selectors

My SICK is your personal self-service portal

- · Open around the clock
- · Clear product information
- · Company-specific price conditions
- · Convenience during the ordering process
- · Document overview
- · Availability and delivery times

Register now:

→ www.sick.com/myBenefits

Even more value

- Digital Customer Trainings → www.sick.com/c/g300887
- Digital Service Catalog → cloud.sick.com
- SICK AppPool → apppool.cloud.sick.com





SERVICES FOR MACHINES AND PLANTS: SICK LifeTime Services

Our comprehensive and versatile LifeTime Services are the perfect addition to the comprehensive range of products from SICK. The services range from product-independent consulting to traditional product services.





Consulting and design Safe and professional



Product and system support Reliable, fast, and on-site



Verification and optimization Safe and regularly inspected



Upgrade and retrofits
Easy, safe, and economical



Training and education

Practical, focused, and professional

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 11,000 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

