

microScan3

The rugged safety laser scanner – extremely intelligent

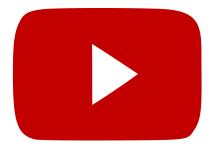


Advantages



High reliability thanks to innovative scanning technology

The microScan3 opens up new fields of application and represents a new standard for safety laser scanners: Thanks to the innovative safeHDDM[®] technology, ambient light, dirt and dust are reliably filtered out. This keeps the productivity of your machine high.





safeHDDM® scanning technology: enables the combination of compact design, large scanning range and high-precision measurement data
Find out more

High availability: resistant to dirt, dust, ambient light and other laser scanners



High availability of the safety laser scanner: How to avoid machine downtime

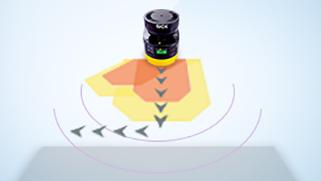


Intelligent functions for countless possibilities

Safety and productivity go hand-in-hand with the intelligent functions of the microScan3. You can tailor the microScan3 to the requirements of your machine environment, thereby ensuring that processes run smoothly.



High safety and efficient operation: thanks to 128 freely configurable fields, 8 simultaneous protective fields and contour detection fields for monitoring the machine environment



Cost-efficient solution: You only need one device to get accurate measurement data in order to safeguard the application and support the navigation of your mobile application



Individual configuration: Experience a high level of flexibility



Smart integration can be simple

The microScan3 is remarkably easy to integrate into your application: Quick to mount, easy to wire, and safe to integrate into industrial networks.



Simple machine integration and fast device change: thanks to a wide range of accessories, pluggable system connector as well as integrated configuration memory and standardized connection technology



High productivity: thanks to remote diagnostics and safe integration into your industrial network, for example via Ether-Net/IP $^{\text{TM}}$ CIP Safety $^{\text{TM}}$, PROFINET PROFIsafe, EtherCAT $^{\text{®}}$ FSoE, I/O. Or use the intelligent SICK EFI-pro system



Simple mounting and commissioning: This is how you save time and money

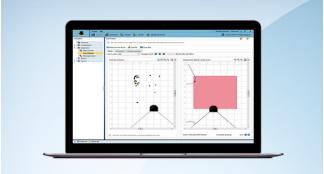


Intuitive operation of intelligent sensor technology

The Safety Designer software makes it possible to configure the microScan3 quickly and easily and to retrieve detailed diagnostic information. Important diagnostic data is also available directly on the device display.



Prevent machine downtime: Measurement data can be stored and analyzed, helping you optimize processes and configurations



Simple configuration and diagnostics: with the convenient step-by-step configuration aid in the Safety Designer and quick error analysis, which you can also run with the EventCam, for example



Clever technology: Benefit from a high level of usability





Technical data overview

| recriffical data overview | |
|-----------------------------------|--|
| Application | Indoor |
| Protective field range | 4 m 9 m (depending on type) |
| Warning field range | 40 m / 64 m (depending on type) |
| Scanning angle | 275° |
| Number of fields | 4 128 (depending on type) |
| Number of monitoring cases | 1 128 (depending on type) |
| Response time | ≥ 70 ms (depending on type) |
| OSSD pairs | 1 0 4 |
| Integration in the control system | Local inputs and outputs (I/O) CIP Safety™ over EtherNet/IP™ PROFINET PROFIsafe EFI-pro EtherCAT® FSoE (depending on type) |
| Safety level | PL d, SIL 2, Type 3 |

Product description

The microScan3 safety laser scanner stands for the protection of very different applications: from stationary to mobile, from simple to complex. The innovative safeHDDM® scanning technology makes the microScan3 extremely resistant, even to dust and ambient light, and delivers high-precision measurement data. It increases the productivity and availability of machines. The different variants of the microScan3 can be integrated simply and safely into countless networks. In addition, the safety laser scanner offers standardized connectivity for time-saving commissioning. The microScan3, the easy handling of its Safety Designer configuration software and its diagnostic options combine user-friendly operation, innovation and very high performance.









At a glance

- Innovative safeHDDM[®] scanning technology
- · High-precision measurement data via Ethernet interface
- Protective field range: up to 9 m, scanning angle: 275°
- Up to 128 freely configurable fields and up to 8 simultaneous protective fields
- · Standardized communication interfaces
- · System plug with configuration memory

Your benefits

- Very high machine availability and productivity thanks to the patented safeHDDM[®] scanning technology
- · Flexibility for safe automation processes due to simultaneous protective fields, contour detection fields and detailed data output
- Safe integration into different control systems via I/O, EFI-pro, EtherNet/IP™ CIP Safety™ or PROFINET PROFIsafe, Ether-CAT® FSoE, etc.
- Saves time during commissioning and diagnostics thanks to the intuitive Safety Designer software, multi-color display and system plug

Fields of application

- · Hazardous area, hazardous point and access protection of stationary applications
- · Safety and localization for mobile platforms and mobile robots
- · Simultaneous protection of several hazardous areas

Ordering information

Other models and accessories → www.sick.com/microScan3

| Integration in the con- trol system | Sub prod- uct family | Protective field range | Number of fields | Number of monitor- ing cases | Connec- tion type | Туре | Part no. |
|---|--------------------------------------|------------------------|---------------------|------------------------------------|----------------------|--------------------|----------|
| Local inputs and out- puts (I/O) | microScan3 Core I/O | 4 m | 8 | 2 | M12 | MICS3-AAAZ40AZ1P01 | 1075842 |
| | | 5.5 m | 8 | 2 | M12 | MICS3-AAAZ55AZ1P01 | 1075843 |
| | | 9 m | 8 | 2 | M12 | MICS3-AAAZ90AZ1P01 | 1089492 |
| | microScan3 Core I/O AIDA | 4 m | 4 | 1 | M12 AIDA | MICS3-AAAZ40BZ1P01 | 1083078 |
| | | 5.5 m | 4 | 1 | M12 AIDA | MICS3-AAAZ55BZ1P01 | 1083079 |
| | | 9 m | 4 | 1 | M12 AIDA | MICS3-AAAZ90BZ1P01 | 1089493 |
| | microScan3 | 4 m | 128 | 128 | M12 | MICS3-CCAZ40AN1P01 | 1133818 |
| | Pro I/O | 5.5 m | 128 | 128 | M12 | MICS3-CCAZ55AN1P01 | 1133820 |
| | | 9 m | 128 | 128 | M12 | MICS3-CCAZ90AN1P01 | 1133822 |
| Local inputs | microS- | 4 m | 128 | 128 | M12 | MICS3-CCAZ40AA1P01 | 1110035 |
| and outputs (I/O), EFI-pro | can3 Pro I/ O - EFI-pro | 5.5 m | 128 | 128 | M12 | MICS3-CCAZ55AA1P01 | 1110033 |
| | | 9 m | 128 | 128 | M12 | MICS3-CCAZ90AA1P01 | 1110037 |
| CIP Safety™ | microScan3 | 4 m | 8 | 8 | M12 | MICS3-ABAZ40IZ1P01 | 1082015 |
| over Ether- Net/IP™ | Core - Eth- erNet/IP | 5.5 m | 8 | 8 | M12 | MICS3-ABAZ55IZ1P01 | 1082016 |
| | | 9 m | 8 | 8 | M12 | MICS3-ABAZ90IZ1P01 | 1094457 |
| | microScan3 Pro - Eth- erNet/IP | 4 m | 128 | 128 | M12 | MICS3-CBAZ40IZ1P01 | 1092542 |
| | | 5.5 m | 128 | 128 | M12 | MICS3-CBAZ55IZ1P01 | 1092543 |
| | | 9 m | 128 | 128 | M12 | MICS3-CBAZ90IZ1P01 | 1094461 |
| Ether- | microS- can3 Core - EtherCAT | 4 m | 8 | 8 | M12 | MICS3-ABAZ40EN1P01 | 1108230 |
| CAT [®] FSoE | | 5.5 m | 8 | 8 | M12 | MICS3-ABAZ55EN1P01 | 1108232 |
| | | 9 m | 8 | 8 | M12 | MICS3-ABAZ90EN1P01 | 1108234 |
| | microScan3 Pro - EtherCAT | 4 m | 128 | 128 | M12 | MICS3-CBAZ40EN1P01 | 1108226 |
| | | 5.5 m | 128 | 128 | M12 | MICS3-CBAZ55EN1P01 | 1103950 |
| | | 9 m | 128 | 128 | M12 | MICS3-CBAZ90EN1P01 | 1108228 |
| EFI-pro | microScan3 Core - EFI-pro | 4 m | 8 | 8 | M12 | MICS3-ABAZ40ZA1P01 | 1092539 |
| | | 5.5 m | 8 | 8 | M12 | MICS3-ABAZ55ZA1P01 | 1092538 |
| | | 9 m | 8 | 8 | M12 | MICS3-ABAZ90ZA1P01 | 1094455 |
| | microScan3 Pro - EFI-pro | 4 m | 128 | 128 | M12 | MICS3-CBAZ40ZA1P01 | 1091037 |
| | | 5.5 m | 128 | 128 | M12 | MICS3-CBAZ55ZA1P01 | 1091038 |
| | | 9 m | 128 | 128 | M12 | MICS3-CBAZ90ZA1P01 | 1094465 |

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| Integration in the con- trol system | Sub prod- uct family | Protective field range | Number of fields | Number of monitor- ing cases | Connec- tion type | Туре | Part no. |
|---|------------------------------------|---------------------------|---------------------|------------------------------------|-------------------------|--------------------|----------|
| PROFINET PROFIsafe | microS- can3 Core - PROFINET | 4 m | 8 | 8 | SCRJ push- pull AIDA | MICS3-ACAZ40LZ1P01 | 1100384 |
| | | | | | RJ45 push- pull AIDA | MICS3-ACAZ40PZ1P01 | 1083012 |
| | | | | | M12 | MICS3-ABAZ40PZ1P01 | 1100404 |
| | | 5.5 m | 8 | 8 | SCRJ push- pull AIDA | MICS3-ACAZ55LZ1P01 | 1100386 |
| | | | | | RJ45 push- pull AIDA | MICS3-ACAZ55PZ1P01 | 1083010 |
| | | | | | M12 | MICS3-ABAZ55PZ1P01 | 1100406 |
| | | 9 m | 8 | 8 | SCRJ push- pull AIDA | MICS3-ACAZ90LZ1P01 | 1100388 |
| | | | | | RJ45 push- pull AIDA | MICS3-ACAZ90PZ1P01 | 1094459 |
| | | | | | M12 | MICS3-ABAZ90PZ1P01 | 1100408 |
| | microScan3 Pro - PROFINET | 4 m | 128 | 128 | SCRJ push- pull AIDA | MICS3-CCAZ40LZ1P01 | 1100398 |
| | | | | | RJ45 push- pull AIDA | MICS3-CCAZ40PZ1P01 | 1100390 |
| | | | | | M12 | MICS3-CBAZ40PZ1P01 | 1092720 |
| | | 5.5 m | 128 | 128 | SCRJ push- pull AIDA | MICS3-CCAZ55LZ1P01 | 1100400 |
| | | | | | RJ45 push- pull AIDA | MICS3-CCAZ55PZ1P01 | 1100392 |
| | | | | | M12 | MICS3-CBAZ55PZ1P01 | 1092721 |
| | | 9 m | 128 | 128 | SCRJ push- pull AIDA | MICS3-CCAZ90LZ1P01 | 1100402 |
| | | | | | RJ45 push- pull AIDA | MICS3-CCAZ90PZ1P01 | 1100394 |
| | | | | | M12 | MICS3-CBAZ90PZ1P01 | 1094463 |

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

