



For full product information, visit www.sti.com. Use the SpeedSpec Code or scan the QR Code for quick access to the specific web page.

The OS32C is Now EtherNet/IP Capable

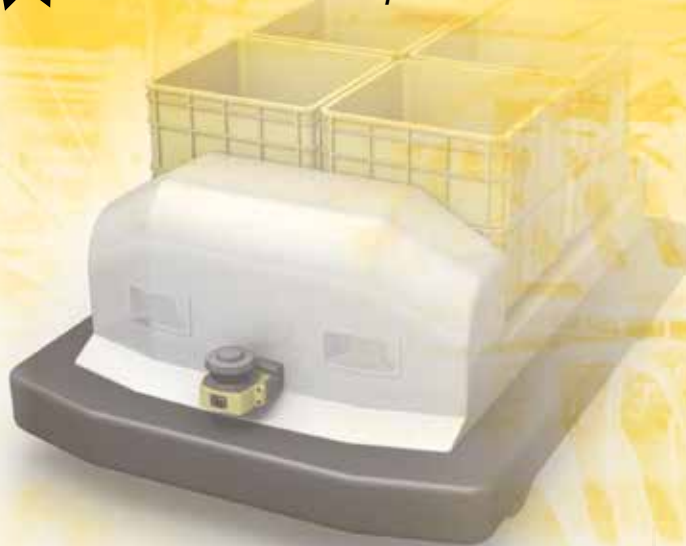
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Compact Safety Laser Scanner



New Industry First!

EtherNet/IP Capable for Status and Measurement Data Reporting



Small Size: Low Profile 104.5 mm

Compact and versatile safety laser scanner

Lightweight: 1.3 kg

Lightweight body for easy handling and installation

Low Power Consumption: 5 W

Low power consumption reduces battery load on the AGV (3.75 W in standby mode)

EtherNet/IP™
conformance tested

104.5 mm



133.0 mm

142.7 mm

270° detection angle



Integrated Management via EtherNet/IP

Industry First!

Industry's first Ethernet-compliant Safety Laser Scanner allows the user to check operating state and analyze the cause of an emergency stop via LAN even in large-scale applications using multiple scanners.

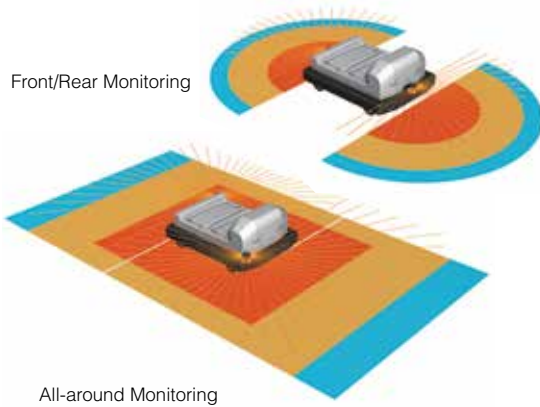
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Simple and Versatile to Solve Many Application Needs

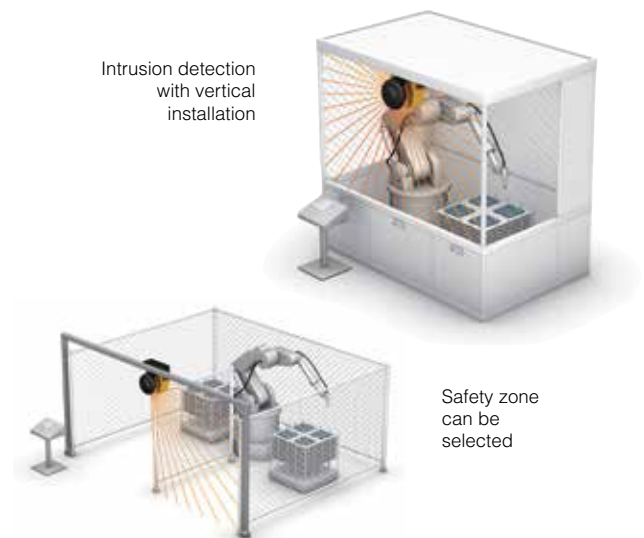
Collision Avoidance

Small, light & compact body provides for easy installation on an AGV.
 Low power consumption (5 W reduces battery load on the AGV (3.75 W in standby mode)
 Up to 70 zone set combinations support complex AGV tracks.



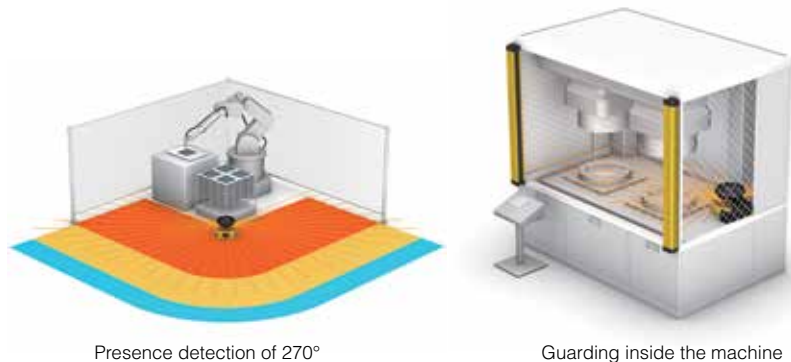
Intrusion Detection

Reference Boundary Monitoring function supports intrusion detection without physically blocking the entrance.
 Supports various operation patterns by switching zone sets.



Presence Detection

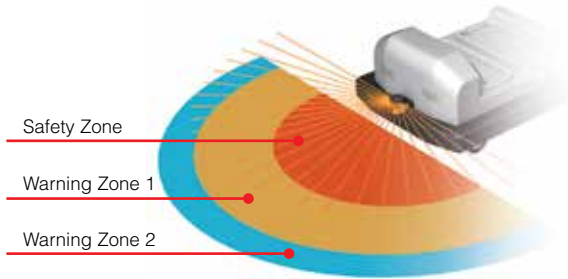
Compact body allows for use inside the machine.
 Detection angle of 270° provides coverage of two sides with one scanner.



Unprecedented, Innovative Features

Flexible zone configurations **Industry Best!**

For complex AGV applications, up to 70 combinations – each with one safety zone and two warning zones – can be set. The two warning zones can be set to support various purposes such as warning sound and speed control



Simplified wiring

Omron's innovative I/O method requires fewer inputs when configuring multiple zones. Only 4 inputs are required to select from 6 zone sets. If all 8 inputs are used, up to 70 zone sets are available.

Operating state can be determined at a glance

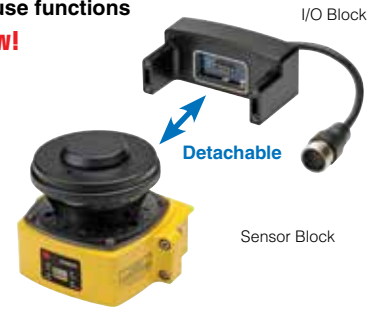
Eight sector indicators show the direction of intrusion. Front display shows operating state and error codes.



Convenient and easy-to-use functions

Replaceable sensor, no **New!** reprogramming needed

No reprogramming needed, the configuration is stored in the I/O block. Replacing a damaged sensor is fast and easy.



Cable access options

To tailor the OS32C to your installation, four options are available for the location of the power and ethernet connections:

- OS32C-BP – Cable access from back
- OS32C-SP1 – Cable access from left side
- OS32C-BP-DM – With EtherNet/IP & cable access from back
- OS32C-SP1-DM – With EtherNet/IP & cable access from left side

These can be selected according to the needs of AGV or facilities design.



OS32C with cable access on the back (OS32C-BP)



OS32C with cable access on the left side (OS32C-SP1)

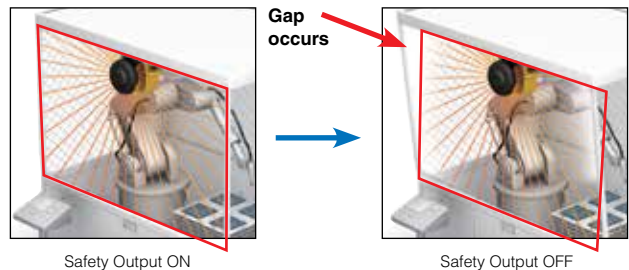
Response time can be set from 80 ms to 680 ms

Response time adjustment can filter out erroneous detections (machine stoppage) caused by pollutants in the environment.

Reference Boundary Monitoring Function **New!**

The OS32C constantly monitors reference points and turns OFF the safety outputs when a shift in its position is detected.

(Per international standard IEC 61496-3, area scanners used in applications where the angle of approach exceeds $\pm 30^\circ$ with respect to the detection plane, must use Reference Boundary Monitoring in the detection zone.)



Free Software for Easy Configuration

The configuration of the safety zone and warning zones can be done in real time using a PC. Configurations can also be created or modified offline.

