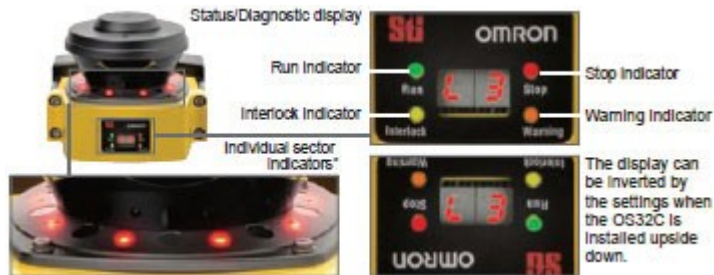## Operating state can be determined at a glance

Eight sector indicators* show the direction of intrusion.
Front display shows operating state and error codes.
* US patent No. for individual sector indicators: US 6,753,776 B2


Integrated management via Ethernet

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.

* Multiple OS32Cs cannot be monitored simultaneously.

Setting 70 combinations

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.
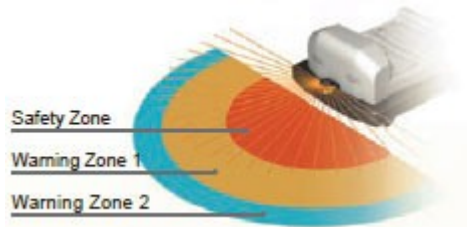
Simplified Wiring

OMRON STI'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.

Please click image to enlarge (open in a new window).

World's Most Compact Level*

Small size — **104.5** mm *As of March,2014

Compact and versatile safety laser scanner

Lightweight — **1.3** kg

Lightweight body for easy handling and installation

Low Power Consumption — **5** w

Power saving, low power consumption(3.75 W in standby mode)

Reducing Erroneous Detections in Safety Zone

PTM (Pollution Tolerance Mode) enables a filter that allows the OS32C to distinguish between more than one detected reflection pulses. Ignoring small reflection pulses which could be caused by airborne dust or other contaminants in the safety zone.
This function prevents nuisance machine stops due to dust.
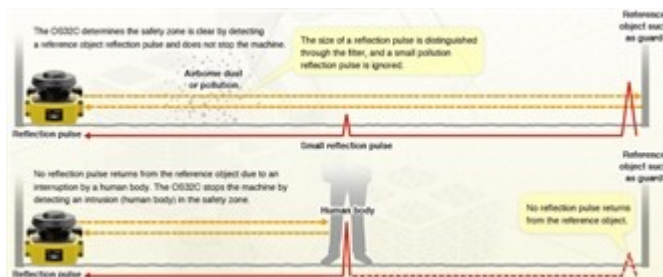
Please click image to enlarge (open in a new window).

New convenient and easy-to-use functions

Replacable sensor, no reprogramming needed

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

Reference Boundary Monitoring function

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 +/- 30 degrees with respect to the detection plane, must use RBM in the detection zone.)
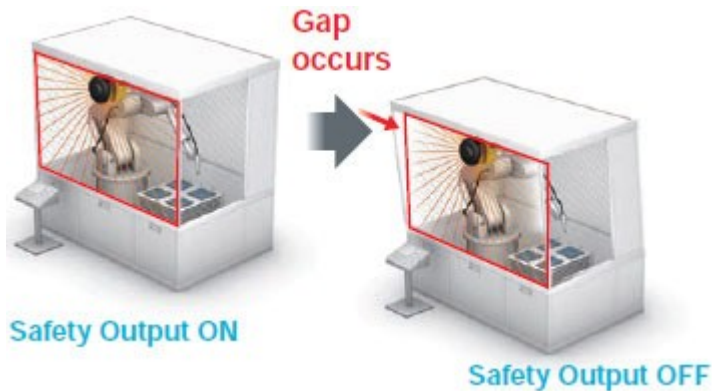
Cable Access Options

To tailor the OS32C to your installation, two options are available for the location of the power and ethernet connections:
OS32C-BP(-4M)/OS32C-BP-DM(-4M) (Cable access from the back)OS32C-SP1(-4M)/OS32C-SP1-DM(-4M) (Cable access from the left side)These can be selected according to the needs of AGV or facilities design.
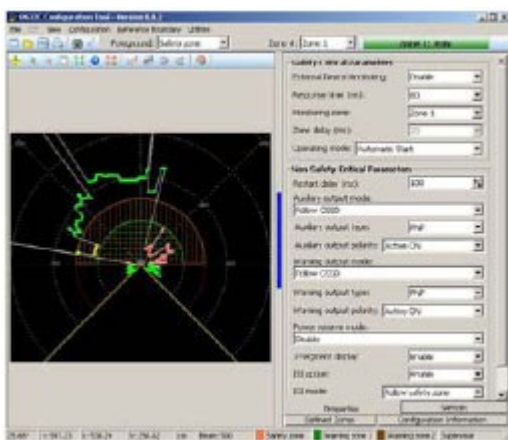

OS32C with cable access from the back (OS32C-BP(-4M)/ OS32C-BP-DM(-4M))

OS32C with cable access from the left side (OS32C-SP1(-4M)/ OS32C-SP1-DM(-4M))

Easy configuration of complex zones

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.

EtherNet/IP™ for Status and Measurement Data
The OS32C system status, zone status, and measurement data can all be monitored over EtherNet/IP.

Scanner Safety Outputs
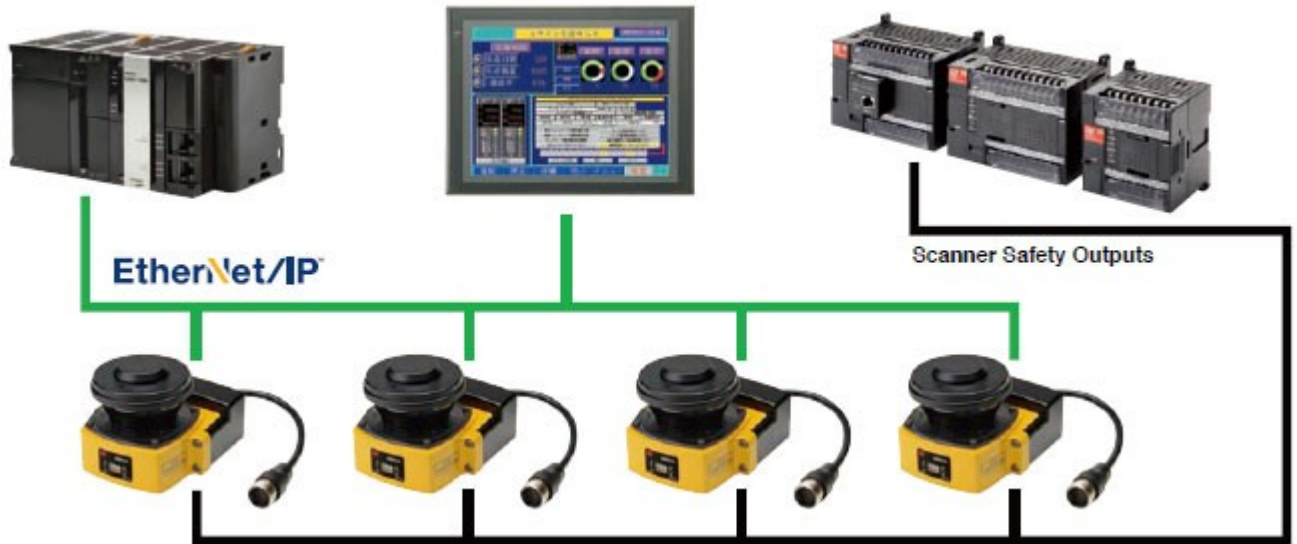
EtherNet/IP™ is the trademarks of ODVA.
Windows is registered trademarks of Microsoft Corporation in the USA and other countries.
Other company names and product names in this document are the trademarks or registered trademarks of their respective companies.
Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.