

# Cyclope® Anti-Collision System



**-The winner of tests conducted in a real industrial environment**

InnoTrafik Oy provides safety and anti-collision systems for industrial needs

**INNOTRAFIK** a step ahead

## The functionality of Cyclope Anti-Collision System

Cyclope Anti-Collision System is designed to improve the working safety, and to be used in hard logistics and industrial areas with a high risk of unforeseen collisions between machines and persons.

Cyclope Anti-Collision System is reliable, and it warns about unforeseen collision between machines and persons within adjustable safety range significantly improving the safety in various warehouses and production facilities.

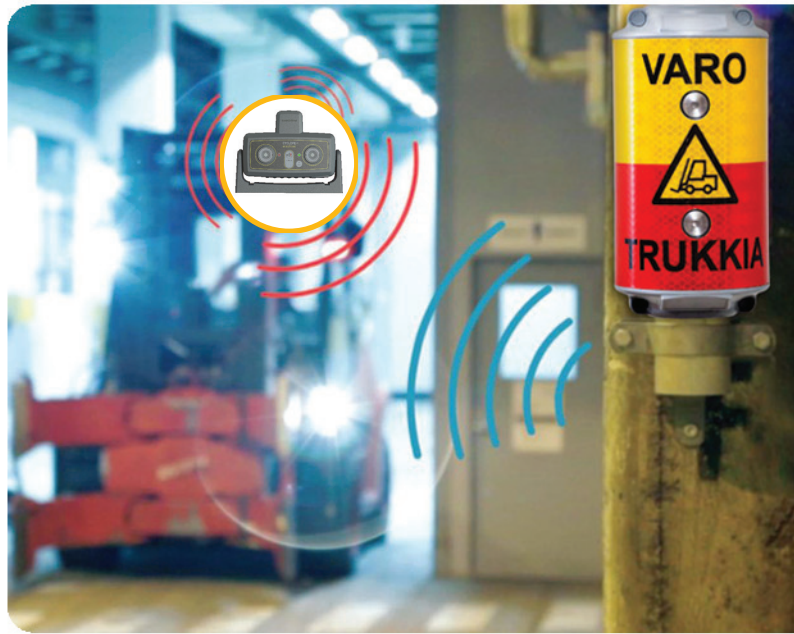
The basic set for one working machine includes a machine detector equipment (Cyclope Machine), and a personal alarm-detector unit (Cyclope Move) carried by a person moving in machine's operating area.

Cyclope Machine, has two operating units, which are installed in the machine, one in the front and one in the back of the cockpit. The alarm units warn the driver with light and sound alarms. The units are interconnected with each other, and attached to the power output of the machine.

Cyclope Move is attached to the working cloth below the shoulder line, from where the buzzer sound can be easily heard, and the light effects can be seen. Cyclope Move has also a vibration effect, and it uses chargeable batteries.

Cyclope Machine and Cyclope Move interact with each other. When the detection range goes under the defined limit, both devices alarm at the same time. And once again, as the detection range goes longer and the defined limit is crossed, the alarms go off.

Cyclope Safety Zone capsule creates a restricted area where the driver can safely stay during the loading. The size of the restricted area is adjustable. Cyclope Move activates with a short delay to the alarm readiness when the driver leaves the safety area. Cyclope Safety Zone is also integrated into Cyclope Machine: Cyclope Moves, which are inside the machine or near the machine's door (within two meters by the factory settings), do not give alarms.





# Cyclope® Machine

- Transmitter/detector unit
- Detection range adjustable by programming
- Sound alarm approx. 70 db (A), three sound beeps
- Blue and white led light alarm
- Two units / the front and the back of the cockpit
- Power output and connection cables
- Various alternatives for attaching the devices, e.g. magnets/screws
- 12-24V
- Program updates and changing the settings via micro-USB Port
- Service free
- Measures: 156 x 76 x 32 mm
- Weight: 230 g / unit



# Cyclope® Move

- Sound alarm approx. 70 db (A)
- Blue and white led light effects to the upfront and up
- Vibration effect
- Operated by a battery
- wireless charging approx 2-4 hours
- operational time with 1 charging approx. 24 hrs
- Can be programmed to open electric locks
- Program updates and changing the settings via micro-USB Port
- Charging also via micro-USB Port
- Service free
- Measures: 55 x 140 x 30 mm
- Weight: 160 g



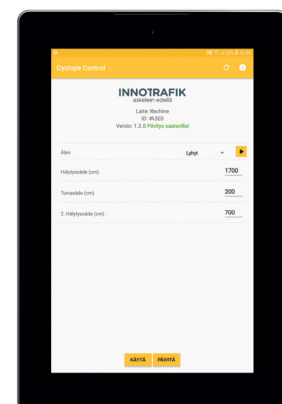
# Cyclope® Charger

- Wireless charger rack for 1 / 3 / 5 Cyclope Move / rack
- The charger rack automatically disconnects the transmission signal during charging
- Easily installed e.g. on the wall
- 100 – 240V
- The charger rack for 1 device also with options of a magnet attachment and USB (1A)



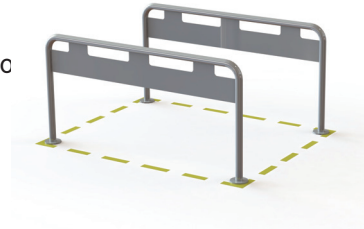
# Cyclope® Control

- Application for configuring Cyclope devices (alarm sounds, ranges)
- Easy and clear Android based user interface
- Specification of the devices
- Program updates



# Cyclope® Safety Zone

- A restricted and clearly presented area where the driver is allowed to safely stay during the loading
- Cyclope Move activates with a short delay to the alarm readine when the driver leaves the safety area
- The size of the restricted area can be adjusted via micro-USB Pc



# Cyclope® Access

- Access control device, which interacts with Cyclope Machine: when the machine is in the defined range from the door, the door opens
- Prevents unnecessary openings of the door (e.g. the persons or birds passing the door radar)



## The system and its functionality

The detector equipment is installed in the machine. The equipment has two alarm units, which are installed in the cockpit, one in the front and one in the back. The system is in the machine – no exposure to external damages!

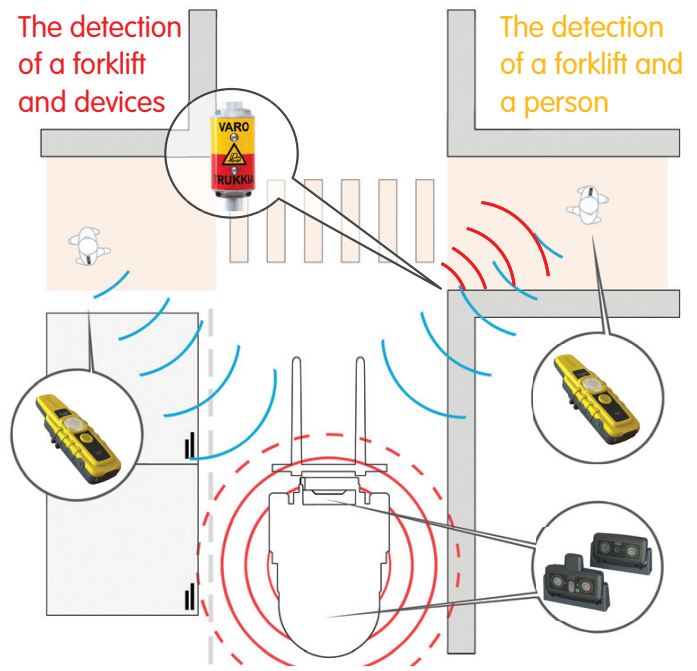
When the detector equipment detects the signal given by the personal alarm-detector, it warns the driver with light and sound effects about a person nearby the machine.

At the same time the personal alarm-detector warns the pedestrian with light, sound and vibration effects about an approaching machine. The detection range between a machine and a person is adjustable.

The dangerous spots can also be equipped with Cyclope indicator capsules or illuminative warning signs, which activate by the machine detector equipment.

The units are interconnected with each other, and attached to the power output of the machine.

The alarm units warn the driver with light and sound alarms.



- Clear warning signals – No mixing with other warning lights
- One for all -product – Compatible with fixedly installed Cyclope Industrial safety system devices
- The machine detector equipment units are inside the machines – no exposure to external damages!
- Easy to install and fast to deploy – Goes to machines with all sizes
- Cost-effective solution, which gives surplus to the customers!

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