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stands for safety

Our innovative blocking device Pyloto allows a consequent lockout-tagout procedure for maintenance work at interfaces to infrastructure and peripheral facilities within automated guided vehicle systems with electro-sensitive protective equipment.

Pyloto helps you to provide a safe working area for your employees.



Protection for Employees

Pyloto allows the reliable protection of insufficiently protected working areas within automated guided vehicle systems.

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Our blocking device Pyloto allows the reliable protection of areas which are insufficiently protected in particular during maintenance work, e.g. at load transfer stations, or not covered by suitable personnel detection means.

Lockable

Pyloto is lockable and inhibits the accidental or unauthorized removal of the cone by the solid and usual lockout-tagout procedure.

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Our blocking device Pyloto allows performing the usual lockout-tagout procedure (Pyloto-procedure) whereby Pyloto is secured with a personal padlock against accidental or unauthorized removal. The Pyloto-procedure is very easy and safe to perform for every person involved.

Performance Level

Pyloto uses the performance level of the personnel detection means that are installed in the automated guided vehicle.

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Our blocking device Pyloto uses the performance level of the electro-sensitive protective equipment, whereby the reliable stop of the automated guided vehicle is ensured.

Blocking areas through the radio link of the guidance control system does not comply with the required performance level D and is not secured against accidental or unauthorized restart.

Defined Positions

Pyloto is anchored in defined positions whereby the cone reliably stands in the correct position.

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Our blocking device Pyloto avoids that the cone is placed at an incorrect position. With unmistakable positioning of the cone the reliable stop of the automated guided vehicle is ensured.

Why Pyloto?

Pyloto helps you to minimize risks within automated guided vehicle systems and protect your employees.

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Automated guided vehicle systems fulfil very high safety standards without excluding residual risks.

These risks exist depending on the environmental conditions and the work tasks the employees perform in the operating zone of the automated guided vehicle.

Significant risks exist in particular during maintenance work at interfaces to infrastructure and peripheral facilities where non-detection of persons or objects can result in serious harm.

For a safe stop of automated guided vehicles electro-sensitive equipment is installed. According to ISO 3691-4:2020 it must be executed with performance level D.

Certain areas of the automated guided vehicle system are mostly not covered by suitable personnel detection means:

The automated guided vehicle can NOT detect persons

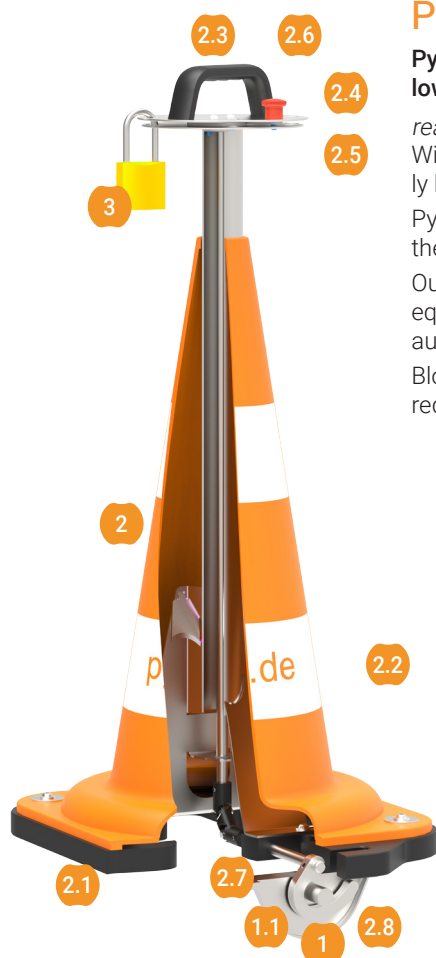
- ◆ on load transfer stations such as conveyors or racks
- ◆ on interfaces between machines
- ◆ in high racks
- ◆ in block storages or very narrow aisles
- ◆ on ladders
- ◆ in lifted working cages
- ◆ on lifted working platforms

Certain objects are not covered by suitable electro-sensitive protective equipment:

The automated guided vehicle can NOT detect

- ◆ very narrow objects
- ◆ very flat objects
- ◆ hanging objects

In these cases the protection of the working areas with Pyloto is indispensable in order to avoid personal injury.



Protect your Employees

Pyloto helps you to protect your employees in an easy and reliable way by consequently following the lockout-tagout procedure.

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With our blocking device Pyloto areas within the automated guided vehicle system can be reliably blocked for example during maintenance work.

Pyloto allows the usual and solid lockout-tagout procedure whereby every person involved locks the cone with a personal padlock.

Our blocking device Pyloto uses the performance level of the electro-sensitive protective equipment that is installed in the automated guided vehicle. In this way the reliable stop of the automated guided vehicle is ensured.

Blocking areas through the radio link of the guidance control system does not comply with the required performance level D and is not secured against accidental or unauthorized restart.

Setup

- 1 ground insert Pyloto-pin
- 2 blocking device Pyloto-500
- 3 personal padlock

- 1.1 pin
- 2.1 base plate
- 2.2 pylon
- 2.3 handle
- 2.4 rotary plate
- 2.5 fixed plate
- 2.6 indexing plunger
- 2.7 double cardan joint
- 2.8 locking hook

Technical Data

Blocking Device Pyloto-500

height: 665 mm ± 10 mm
width: 300 mm
length: 340 mm
mass: 4.7 kg ± 5 %
material: steel, aluminium
A2, synthetics

Ground Insert Pyloto-pin

height: 71 mm
width: 55 mm
length: 120 mm
mass: 0.63 kg ± 10 %
material: A2

max. permissible wheel load while overrun Pyloto-pin
50 kN (with properly mounted ground insert)

Ground insert Pyloto-pin, recommended
core hole diameter: Ø 130 mm... Ø 140 mm
recommended core hole depth: Tiefe 80 mm... 100 mm
needed amount of casting compound: 1.1 l ... 1.7 l

Operation

- ◆ Push the locking hook of the blocking device Pyloto-500 over the pin of the ground insert Pyloto-pin.
- ◆ Pull the indexing plunger upwards and thus unlock the rotation.
- ◆ Rotate the handle clockwise until the padlock holes align. In this position the indexing plunger locks again and blocks the rotation.
- ◆ Lock the blocking device Pyloto-500 with your personal padlock.



**Existing risks within automated guided vehicle systems
are in responsibility of the system operator.**

We gladly support you with minimizing these risks!

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Pyloto is a protected product which we manufacture by ourselves
and which you can purchase directly from us.

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