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Helios 2T

Microwave motion and AIR presence detectors for industrial doors

User-friendly, flexible, energy-saving

- Fast installation and easy parameter configuration thanks to the slim design and mobile app
- Flexible adaptation of the detector fields to the specific location
- Reduction of energy consumption thanks to cross traffic masking and object recognition

Helios 2T

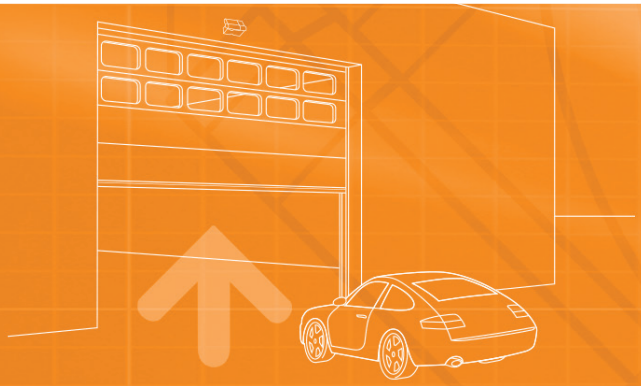
Microwave motion and AIR presence detectors for industrial doors

User-friendly, flexible and energy-saving

With its mobile app for easy detector installation, Helios 2T is equipped for any of the challenges that the future might bring, and can flexibly be mounted at a height of up to six metres. The combined detector features a wide microwave field for quick activation. A double-row active infrared curtain detects people and vehicles within close range of the industrial door.

In its detection field, the detector differentiates between vehicles and people, and reliably masks both them and crossing traffic. Helios 2T thus reduces door opening times, cuts down significantly on the energy consumed by the building and makes decisive contributions to sustainability.





Benefits

User-friendly installation and parameter configuration

- Pluggable connection significantly reduces cabling work



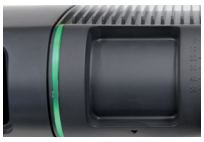
- Precise and clear positioning of the microwave field and active infrared curtain thanks to the setting screws and scale



- Quick and straight-forward configuration with the mobile app



- Optical feedback clearly indicates the operating status with an LED ring

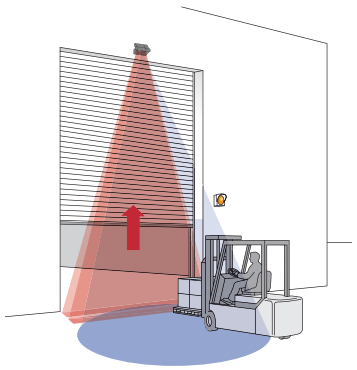


Flexible and efficient in a multitude of applications

- Helios 2T can be installed at a height of up to six metres and complies with protection class IP65.
- The combined detector features a wide microwave field for quick activation. The active infrared curtain is adjustable and monitors the area in close range of the industrial door to allow vehicles or people to pass through safely.
- Helios 2T is equipped with an additional AUX output. Used as a door opening signal, the activation field is additionally enlarged to ensure that vehicle traffic flows even more smoothly.
- The AUX output can be used in conjunction with a warning signal for early detection. If a person or a vehicle enters the early detection field, this can be indicated on the other side of the industrial door before it opens, preventing collisions as a result.

Reduced consumption thanks to energy-saving functions

- Direction recognition means the industrial door only remains open for as long as is necessary
- Thanks to object detection, Helios 2T only opens the industrial door for vehicles
- Cross traffic masking prevents the industrial door from being opened unintentionally by passing vehicles
- Helios 2T reduces door opening times and thus lowers the energy consumption of the building significantly





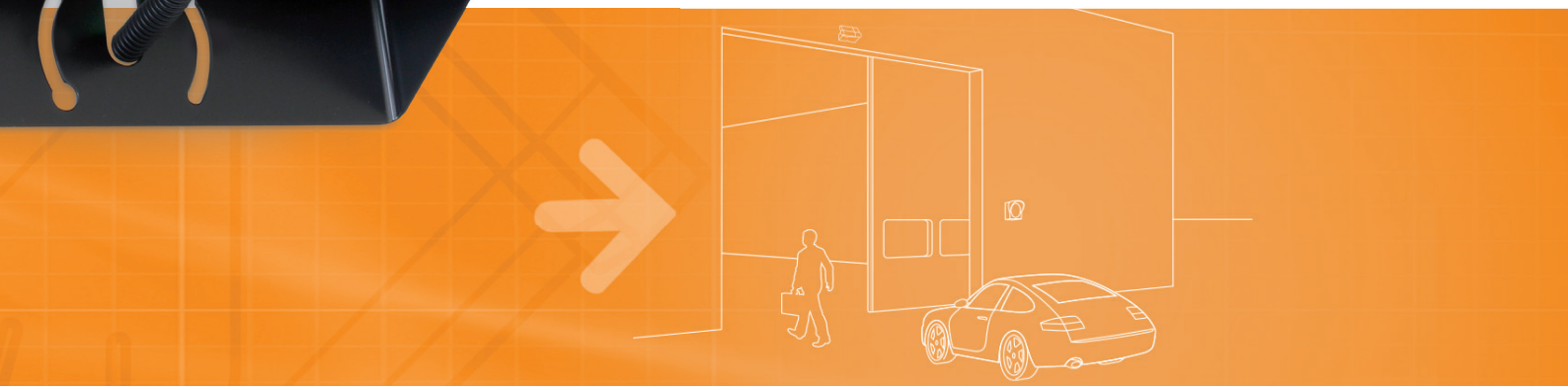
Mobile app

Helios 2T is easy to start up and configure with the user-friendly mobile app **Helios 2T SmartConnect.**

GET IT ON Google Play

Download on the App Store

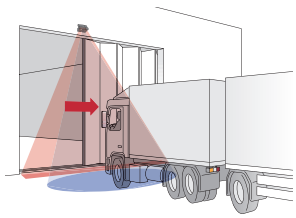




Applications

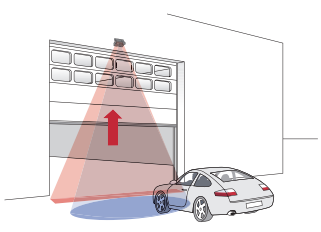
Application
Automatic opening and presence detection on industrial doors

Solution and benefits
- Helios 2T can open and monitor industrial doors that are up to six metres high
- Thanks to the variable adjustment options for the field geometry, the detector fields can adapt perfectly to the application in question
- Door activation and protection integrated in a single detector



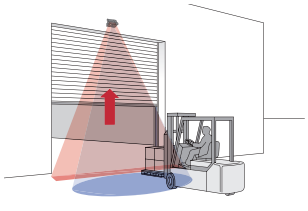
Application
Activation of industrial doors by persons and vehicles

Solution and benefits
- Optimised traffic flow thanks to reliable activation of the automatic opening function
- Early detection of persons and vehicles, immediately triggering the opening pulse
- Low and wide industrial doors can also benefit from the flexible adjustment options, ensuring ideal activation conditions



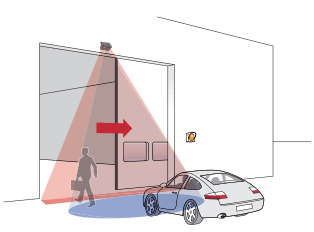
Application
High-speed doors in logistics and temperature-sensitive door systems

Solution and benefits
- Shorter door opening times reduce energy consumption
- Direction recognition means the industrial door only remains open for as long as is necessary
- Thanks to object detection, Helios 2T only opens the industrial door for vehicles
- Cross traffic masking prevents the industrial door from being opened unintentionally by passing vehicles



Application
Collision warning from an early detection signal

Solution and benefits
- Early detection of objects
- Door-independent activation of warning devices such as traffic lights, flashing lights or warning sirens



Technical data

Mechanical data

Colour	black
Housing material	ABS / PA
Dimensions	210 × 50 × 130 mm (L × W × D)
Weight	600 g
Mounting height	2.0 to 6.0 m*

*A person can be detected by the AIR up to an installation height of 4 m

Technological data

Technology	Microwave Doppler effect, active infrared reflection
Microwave	
Transmission frequency	24.2 GHz
Transmitter radiated power	< 12.7 dBm
Angle adjustment	0 to +50°
Active infrared	
Angle adjustment	−15 to +40°

Electrical data

Power supply	12–24 V AC ±10% (50/60 Hz), 12–30 V DC ±10%
Power consumption	< 3 W (< 4.5 VA with AC)
Output fall-delay time	> 0.5 s (can be selected via app)
Response time	< 0.3 s (can be selected via app)
Communication method	Bluetooth LE (version 4.0)
Activation output	Semiconductor relay, max. 50 V AC/V DC, max. 0.3 A (resistance load)
Additional safety output	Semiconductor relay, max. 50 V AC/V DC, max. 0.3 A (resistance load)
AUX output*	Semiconductor relay, max. 50 V AC/V DC, max. 0.3 A (resistance load)

* The detector can send an output signal such as a flashing light or an alarm siren to other devices

Ambient conditions

Protection class	IP65
Operating temperature	−35° C to +55° C
Air humidity	< 80%

Directives and standards

Directives	EMC 214/30/EU, WEEE 2012/19/EU, RED 2014/53/EU, RoHS 2011/65/EU
Standards	EN 61000-5-2:2005, EN 61000-6-3:2007/A:2011/AC2012, EN 300 323 V2.1.1:2016-11, EN 300 440 V2.2.1:2018-07, EN 50581:2018

Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special propertiesof the products. This does not apply to special product properties confirmed by us in writing or individually. Subject to technical alterations.

Ordering information

Article no.	Description
389462	**Helios 2T** Microwave motion and AIR presence detector for industrial doors (includes mounting bracket and 10-meter connection cable with connector)



Accessories

493045	**Helios 2T connection cable** Length 10 m

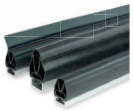


Supplementary products

ExpertSystem XL
Modular pressure-sensitive edge system for gate/door applications



ClickLine
Electric pressure-sensitive edge, rubber profiles with click-fit foot



ExpertSystem XRF
Wireless signal transmission system for safety edges and wicket doors on industrial doors with PLd, cat. 3



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