Microwave motion detector for industrial doors

Herkules 2

Rapid reaction time, ideal for high-speed doors

Versatile applications for heights from 2 to 7 m and temperatures from −30 °C to +60 °C

Practical default settings for a variety of industrial door applications

Broad selection of evaluation options for people and vehicles

Direction recognition and crossing traffic masking

www.bircher.com
Herkules 2
Microwave motion detector for industrial doors

Universally applicable
The Herkules 2 microwave motion detector has been specifically developed for use with industrial doors. It detects, differentiates between or masks out people or vehicles and can switch the output relays separately, depending on the requirement.

First class, tried-and-tested
Herkules 2 is a logical further refinement of our successful microwave detectors that are also used for automatic doors. Our long experience, combined with progressive planar technology, gives Herkules 2 a considerable range of functions and reliability.

Your benefits

Prevents unwanted opening
- Crossing traffic masking

Inexpensive and simple logistics
- One device for many applications

Wide range of applications for almost all heights of industrial doors
- Detection height from 2 to 7 metres

Intelligent control of the industrial door
- Differentiation between or masking of people and vehicles

Rapid startup
- Default enhanced function settings, straightforward wall or ceiling mounting

Straightforward configuration and initialisation
- Setting using programming switches or RegloBeam 2 remote control

Can be set to function with different industrial door controllers
- The fall-delay time of the outputs can be varied between 5 levels

Variable detection areas for any application
- Nine possible field sizes can be set

Industrial aluminium housing
- Particularly robust aluminium housing

Preprogrammed default settings

Easy to select options for evaluating people and/or vehicles

Relay output 1

* Also as default setting for high-speed doors

Relay output 2
### Extended accessories

The RegloBeam 2 bidirectional remote control allows the Herkules 2 to be configured quickly and completely from ground level, and every single parameter can be adapted to the particular situation. The RegloBeam 2 is also used with many of our other detectors.

![RegloBeam 2 remote control](image)

### Reliable in every application

#### Situation
Activation of sectional gates

#### Solution
- Optimum traffic flow thanks to reliable activation of the industrial door controller

#### Advantages
- Direction recognition means the industrial door only remains open for as long as necessary
- Crossing traffic masking to prevent unintentional opening of the industrial door

#### Situation
Use on roller gate or high-speed door in logistics areas

#### Solution
- Early-stage opening simply by selecting one of nine possible field sizes (see back page) and rapid detection of people/vehicles

#### Advantages
- Optimum goods flow thanks to early-stage detection and immediate opening
- Even low and wide industrial doors profit from the flexible settings for ideal activation

#### Situation
Activation of sliding gates for people and vehicles

#### Solution
- Detection of people/vehicles with separate outputs for intelligent activation

#### Advantages
- Saves energy in the hall because the industrial door does not open completely when pedestrians are detected
- Optimum traffic flow

#### Situation
Delivery at folding door with truck

#### Solution
- Also ideal for use on wide and tall industrial doors

#### Advantages
- Reliable detection due to flexible adjustments to the microwave field
- No need for the driver to get out
- Optimum traffic flow
Maximum field dimensions

- 2.5 m mounting height
  - Setting angle: 15°–45°
- 4.5 m mounting height
  - Setting angle: 15°–45°
- 7 m mounting height
  - Setting angle: 15°–45°

Order details

**Article no.** | **Description** |
--- | --- |
223152 | Herkules 2 Microwave motion detector for industrial doors |

**Accessories**

- 357649 | Herkules 2 Holder complete |
- 292393 | RegleBeam 2 Bidirectional remote control |

Supplementary products

- **ClickLine**
  - Electrical safety edge
  - Rubber profiles with click-fit foot
- **CoverLine**
  - Electrical safety edge
  - Rubber profiles for clicking in at the side

Technical data

**Mechanical data**

- Mounting height: 2.0 to 7.0 m
- Connection type: cable 5 m, 8 x 0.14 mm²
- Housing material: black anodised aluminium, polycarbonate cover
- Dimensions: 134 x 82 x 75 mm
- Weight: 720 g incl. cable

**Technology data**

- Technology: Doppler radar with planar module
- Transmitting frequency: 24.05–24.25 GHz
- Transmitting power: < 20 dBm
- Mains frequency: 50 Hz
- Max. detection speed: 25 km/h for vehicles

**Electrical data**

- Operating voltage: 12–28 V AC, 12–36 V DC
- Operating current: max. 75 mA
- Relay outputs: potential-free changeover contacts
- Switching voltage: max. 48 V AC/DC
- Switching current: max. 0.5 A AC

**Ambient conditions**

- Protection class (EN 60529): IP65
- Temperature range: –30 °C to +60 °C
- Air humidity: 0% to 95% relative, without condensation

**Standards**

- Approvals: CE 0682 ! / FCC / IC
- Suitable for the following countries: EU, EFTA, US, CA

**Note**

Technical details and recommendations on our products are based upon experience and represent guidelines for the user. Details in brochures and specification sheets do not guarantee any special product features, apart from those which we confirm in individual cases. We reserve the right to make changes as the result of technical developments.

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Herkules 2E
Microwave motion detector for industrial doors

Simple, proven, versatile

- Quick and easy installation
- Two completely independent programmable outputs
- Quick reaction time is ideal for high-speed doors
- Differentiates between people & vehicles
Herkules 2E
Microwave motion detector for industrial doors

Universally applicable
The Herkules 2E microwave motion detector has been specifically developed for use with industrial doors. It detects, differentiates between or masks out people or vehicles. Herkules 2E is a logical further refinement of our successful microwave detectors that are also used for automatic doors. Our long experience, combined with progressive planar technology, gives Herkules 2E a considerable range of functions and reliability.

User-friendly
Herkules 2E features two completely independent programmable outputs that give you complete flexibility for every application and the pulse on exit feature makes it even more versatile. Herkules 2E is extremely user-friendly and can be easily programmed.

Your benefits

Quick installation
- Quick and easy installation: bi-directional remote control and user-friendly settings

Two outputs
- Two completely independent programmable outputs for endless application scenarios

Easy installation and startup
- 6-wire cable and thicker wire gauge for easier installation
- 7 m long cable for maximum installation flexibility
- Mounting height range of 2 to 7 m covered by one sensor (no need for multiple sensors at different heights)

Intelligent control
- Differentiation between pedestrian and/or vehicle traffic
- Detects traffic moving toward and away from the door
- Cross-traffic optimisation prevents unwanted opening

Indoor and outdoor use
- Operating temperature range of \(-30^\circ\text{C} +60^\circ\text{C}\) is ideal for cold storage applications

Door activation
- Ideal substitute for in-ground loops

Pulse on exit signals the door to close after vehicles leave: Protect vehicles & doors, save time, and keep unattended fire stations secure.

The industrial door must be secured with a safety edge / light barrier.
Extended accessories

The RegloBeam 2 bidirectional remote control allows the Herkules 2E to be configured quickly and completely from ground level, and every single parameter can be adapted to the particular situation. The RegloBeam 2 is also used with many of our other detectors.
Maximum field dimensions

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Accessories

Supplementary products

ClickLine
- Electrical safety edge
- Rubber profiles with click-fit foot

CoverLine
- Electrical safety edge
- Rubber profiles for clicking in at the side

Technical data

**Mechanical data**
- **Mounting height**: 2.0 to 7.0 m
- **Connection type**: cable 10 m, 6 x AWG 26 (0.14 mm²)
- **Housing material**: black anodised aluminium, polycarbonate cover
- **Dimensions**: 134 x 82 x 75 mm
- **Weight**: 820 g incl. cable

**Technology data**
- **Technology**: Doppler radar with planar module
- **Transmitting frequency**: 24.05–24.25 GHz
- **Transmitting power**: < 20 dBm
- **Max. detection speed**: 25 km/h for vehicles

**Electrical data**
- **Operating voltage**: 10–28 V AC, 12–36 V DC
- **Operating current**: Max. 75 mA
- **Outputs**: Relay
- **Switching voltage**: Max. 48 V AC/DC
- **Switching current**: Max. 0.5 A AC

**Ambient conditions**
- **Protection class (EN 60529)**: IP65
- **Temperature range**: –30 °C to +60 °C
- **Air humidity**: 0% to 95% relative, without condensation

**Standards**
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