Sensorama

• Comprehensive sensor solutions for diverse applications
• Modular product portfolio
• Customised solutions
About BBC Bircher Smart Access

BBC Bircher Smart Access develops, produces and distributes intelligent sensor solutions for access systems. With people and vehicle flows growing around the world, ever greater demands are being placed on access points. BBC Bircher’s solutions meet the increasing needs for safety, hygiene, accessibility and energy efficiency.

Not only are BBC Bircher’s sensor solutions characterised by the company’s comprehensive product portfolio and an international manufacturing network, but they also stand out from the crowd thanks to the dedication and teamwork of its approximately 180 employees and their extensive technological expertise.

For more than 60 years, BBC Bircher has been fulfilling the specific needs of its international clients with an extended distribution network spanning Europe, Asia and North America. BBC Bircher Smart Access has been a business unit of the BBC Group since 1991.

Further information can be found on our website: www.bircher.com

Sensor solutions

ExpertSystem

ExpertSystem XL
Modular pressure-sensitive edge system

ExpertSystem XRF
Wireless signal transmission system

For gate applications

For applications with high requirements for performance and design

Application

Example from the field

Product benefits

- Heightened sensitivity and short response time
- Fast assembly and easy installation
- Attractive appearance

- Short setup time
- High interference immunity and long battery life
- Safety level cat. 2, PLC or cat. 3, PLd available

Supplementary products

Herkules 2E
Helios 2T
ProLoop
ProAccess

Herkules 2E
Helios 2T
ProLoop
ProAccess

Variants

Height x width in mm: 42 x 29, 49 x 36, 49 x 42, 74 x 37, 74 x 43, 99 x 44

1-channel, 2-channel, DIN housing, integrated transmitter, wicket door switch
## Detectors for industrial door and gates

<table>
<thead>
<tr>
<th>Detector Type</th>
<th>Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Helios 2T</strong></td>
<td>Microwave motion and Air presence detector</td>
<td><img src="image" alt="Helios 2T Diagram" /></td>
</tr>
<tr>
<td><strong>Herkules 2E</strong></td>
<td>Microwave motion detector</td>
<td><img src="image" alt="Herkules 2E Diagram" /></td>
</tr>
<tr>
<td><strong>ProAccess</strong></td>
<td>Vehicle detection sensor</td>
<td><img src="image" alt="ProAccess Diagram" /></td>
</tr>
<tr>
<td><strong>ProLoop2</strong></td>
<td>Loop detector</td>
<td><img src="image" alt="ProLoop2 Diagram" /></td>
</tr>
<tr>
<td><strong>ProLoop Lite</strong></td>
<td>The compact standard version of ProLoop2</td>
<td><img src="image" alt="ProLoop Lite Diagram" /></td>
</tr>
</tbody>
</table>

### Key Features:

- **Helios 2T**
  - Fast installation and easy parameter configuration
  - Flexible adaptation of the detector fields
  - Reduction of energy consumption

- **Herkules 2E**
  - Cross-traffic masking and direction recognition
  - Person/vehicle distinction
  - Pulse-on-exit functionality

- **ProAccess**
  - Quick and easy to install thanks to above ground mounting
  - With built-in heater and IP65 protection optimally suitable for outdoor operation

- **ProLoop2**
  - Direction logic function
  - Protection against power failure
  - Increased sensitivity

- **ProLoop Lite**
  - Increased sensitivity

### Additional Information:

- **ExpertSystem XL**
  - CoverLine, ClickLine
  - ExpertSystem XRF
  - LBGate

- **Pre-assembled loops**
  - Herkules 2E
  - Helios 2T

- **ProLoop2 DIN rail**
  - ProLoop2 for 11-pin plug-in base

- **ProLoop Lite**
  - For one loop
  - For two loops
# Detectors for industrial doors and gates

<table>
<thead>
<tr>
<th><strong>Application</strong></th>
<th><strong>Example from the field</strong></th>
<th><strong>Product benefits</strong></th>
<th><strong>Supplementary products</strong></th>
<th><strong>Variants</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sliding gate</td>
<td>Vertical door</td>
<td>Folding door</td>
<td>Overhead door</td>
<td>Barrier</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ClickLine / CoverLine</strong></th>
<th><strong>S-Line</strong></th>
<th><strong>LBGate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical safety edge system</td>
<td>Thru-beam and reflection light barrier</td>
<td></td>
</tr>
<tr>
<td>Seamlessly integrated with click-fit or cover foot mounting</td>
<td>Available with or without sealing lips</td>
<td>For the detection of people and vehicles</td>
</tr>
</tbody>
</table>

- **Product benefits**
  - In accordance with EN ISO 13856-2 and EN 12978
  - In accordance with EN ISO 13856-2 and EN 12978
  - Reliable protection in a range of up to 30 m

- **Supplementary products**
  - Safety switching devices
  - Aluminium mounting profiles
  - ExpertSystem XRF
  - ProAccess

- **Variants**
  - Rubber profiles for the public transport sector or for pinching and shearing points on machines and systems
  - LBGate R18
  - LBGate TB18
  - LBGate R25
  - LBGate R25.D
# Detectors for pedestrian doors

<table>
<thead>
<tr>
<th>PrimeTec</th>
<th>PrimeScan</th>
<th>PrimeMotion</th>
<th>CleanSwitch</th>
<th>CleanSwitch Lock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motion and presence detector</td>
<td>Active infrared presence detector</td>
<td>Microwave motion detector</td>
<td>Contact-free switch</td>
<td>Contact-free lock</td>
</tr>
<tr>
<td>For activation and protection of primary closing edges</td>
<td>For protection of secondary closing edges</td>
<td>For activation of sliding doors, swing doors and revolving doors</td>
<td>For hygienic activation; can also be integrated into switch systems</td>
<td>For convenient locking; can also be integrated into switch systems</td>
</tr>
</tbody>
</table>

## PrimeTec
- **A**: Protection of escape and rescue routes
- **B**: Protection of secondary closing edges

## PrimeScan
- **A**: EN 16005 and DIN 18650
- **B**: EN 16005

## PrimeMotion
- **A**: EN 16005 and DIN 18650
- **B**: PrimeMotion B
- **C**: ArtMotion 2

## CleanSwitch
- **A**: TopScan
- **B**: UniScan
- **C**: PrimeTec B
- **D**: Merkur 2

## CleanSwitch Lock
- **A**: CleanSwitch Lock
- **B**: CleanSwitch Lock Integration for: Hager, Feller, Gira, Jung

## Detectors for pedestrian doors

- **PrimeScan**
- **PrimeMotion**
- **ArtMotion 2**

## Ceiling installation set PTIS IP65 (water-jet proof)

## Contact-free switch
- **CleanSwitch**
- **CleanSwitch Basic**
- **CleanSwitch Lock Integration for: Hager, Feller, Gira, Jung**

## Contact-free lock
- **CleanSwitch Lock**
- **CleanSwitch Lock Integration**

## Switch systems
- **TopScan**
- **UniScan**
- **PrimeTec B**
- **Merkur 2**

## Hygienic activation
- **CleanSwitch Lock**
- **CleanSwitch Lock Integration**

## No-touch hygienic door lock
- **CleanSwitch Lock**
- **CleanSwitch Lock Integration**

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Revolving door  Sliding door  Swing door
# Detectors for pedestrian doors

<table>
<thead>
<tr>
<th><strong>Merkur 2</strong></th>
<th><strong>UniScan/TopScan</strong></th>
<th><strong>SpotScan</strong></th>
<th><strong>PIR 20 / PIR 30</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Microwave motion detector</td>
<td>Active infrared presence detector</td>
<td>Active infrared presence detector</td>
<td>Passive infrared motion detector</td>
</tr>
<tr>
<td>Universally applicable with especially homogeneous field characteristics</td>
<td>Travelling on the door panel with extremely dense area protection/point protection</td>
<td>With variable applications</td>
<td>For people flow, small and easy to integrate</td>
</tr>
</tbody>
</table>

## Application

<table>
<thead>
<tr>
<th>Sliding door</th>
<th>Swing door</th>
<th>Revolving door</th>
</tr>
</thead>
</table>

## Example from the field

- Sliding door
- Swing door
- Revolving door

## Product benefits

- **Merkur 2**: Slow motion detection, Cross-traffic masking, Direction recognition
- **UniScan/TopScan**: In acc. DIN 18650/EN 16005, Easy installation, Safety function irrespective of the background
- **SpotScan**: Presence detector for protecting various danger points
- **PIR 20 / PIR 30**: Precise and highly varied detection areas

## Supplementary products

- **PrimeTec**: TopScan, UniScan
- **PrimeMotion**: Merkur 2, PIR 20, PIR 30
- **ArtMotion 2**: Merkur 2, PIR 20, PIR 30, TopScan

## Variants

- **Merkur 2 ES**
- **Merkur 2 ES.C**
- **PrimeTec**
- **TopScan, UniScan**
- **PrimeMotion**
- **ArtMotion 2**
- **Merkur 2 ES**
- **TopScan**
Other applications

**LBDoor**
Light barrier

for automatic doors, escalators and industrial doors

**DW**
Pressure wave switches and safety edges

Available in an extremely wide range of versions

**Safety switching devices**
EsGate, ESD3, ESR3

For monitoring pressure-sensitive sensors

**Safety mats**
Pressure-sensitive safety mats

High variability in size, shape, colour, number of zones and electrical wiring

- Watertight housing IP67
- Insensitive to extraneous light
- Mountable in pairs

PrimeMotion
ArtMotion 2
Merkur 2
PIR 20, PIR 30

Pressure wave surface switches (mats or pressure sensitive cells)

ExpertSystem XL
CoverLine, ClickLine
S-Line
Safety mats
ExpertSystem XRF

ExpertSystem XL
CoverLine, ClickLine
S-Line
Safety mats

Safety switching devices
Edge ramp

- In accordance with EN ISO 13849-1
- PLd and e, cat. 2 and 3

- Short response time
- EDM – external device monitoring
- Program/diagnostic display

- In accordance with EN ISO 13856-1
- Any switching function

PrimeMotion
ArtMotion 2
Merkur 2
PIR 20, PIR 30

Pressure wave surface switches (mats or pressure sensitive cells)

ExpertSystem XL
CoverLine, ClickLine
S-Line
Safety mats
ExpertSystem XRF

ExpertSystem XL
CoverLine, ClickLine
S-Line
Safety mats

Safety switching devices
Edge ramp

LBDoor TB12.D.N
LBDoor TB12.N
LBDoor TB12.D.P
LBDoor TB12.P

D1 series: DW10, DW10s, DW20s, DW40
D3 series: D3-P, D3-PB

EsGate 2/3
ESD3, ESR3

EsMate 3
EsMate 3.D
ESD3, ESR3

ESM-52/54
ESM-57
EMP, ES-Button
CareMat
Worldwide near you

Competent partners for our products are located in a large number of countries. Our specialists and authorised partners are very happy to offer personal advice and develop individual solutions with you.

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