ProAccess

Vehicle detection sensor for barriers and gates

Installer-friendly, resistant, versatile

- Quick and easy to install thanks to above ground mounting
- With built-in heater and IP65 protection optimally suitable for outdoor operation
- Several features allow for convenient adaption to various applications

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ProAccess
Vehicle detection sensor for barriers and gates

Installer-friendly, resistant, versatile

ProAccess is a high-performance sensor for vehicle detection combining microwave and ultrasonic technology. ProAccess can quickly activate barriers, parking ticket machines, gates or bollards when a vehicle is approaching. As a combined sensor it can also prevent vehicles from being damaged by the moving part of the gate or barrier.

Thanks to above ground mounting ProAccess is an easy to install alternative for applications in which loop detectors cannot be used. The device is mounted at a height of 0.5 m and has a range of up to 5.5 m. ProAccess is suitable for wet and cold environments because of the IP65 protection class and the built-in heater.

Benefits

User-friendly installation

- Thanks to above ground mounting in 0.5 m, no surfacing work is necessary
- User-friendly menu guidance and feedback via LED
- Sensitivity and detection angle (± 30°) can be adjusted for precise detection
- Triangle bracket for 45° and 90° mounting available
- Sensor unit can be removed for maintenance

High resistance

- Built-in heater ensures stable operation in cold environments
- Reliable detection even at speed up to 20 km/h (12 miles)
- High electromagnetic compatibility (EMC) avoids undesired interferences with other components
- Fulfils protection class IP65

Several features for high versatility

- Different modes for activation and vehicle protection
- Object differentiation can filter out pedestrian traffic
- Material-independent detection of vehicles
- Possibility to teach in stationary objects
- Input for WAKE or INHIBIT signal

Horizontal angle
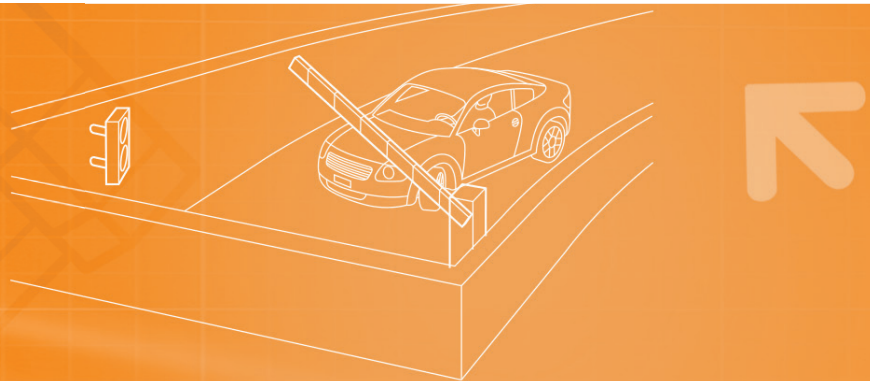adjustment

Built-in
heater

People
suppression

Mounting bracket for ProAccess
Allows for easy installation in 45°
and more flexible angle adjustment.

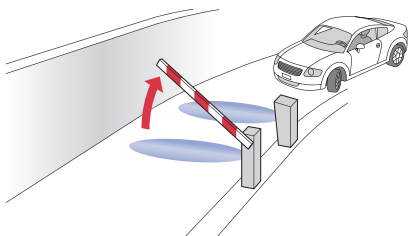## Applications

Application
Activation of ticket dispenser and presence detection at barriers

Solution
- 1 ProAccess activates the ticket dispenser on demand for energy saving
- 1 ProAccess monitors the occupation of the barrier area
- 1 S-Line safety edge ensures a standard-compliant closing edge protection

Benefits
- People masking: human traffic is filtered out for cheat protection
- No surface works through above ground mounting
- Full integration for high vandalism protection
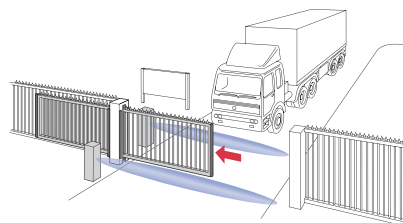
Application
Presence detection at a sliding gate

Solution
2 ProAccess devices for vehicle protection on both sides of the gate in addition to ExpertSystem XL safety edges and an ExpertSystem XRF signal transmission system

Benefits
- No wiring of other side
- Reliable presence detection for vehicles
- Standard-compliant closing edge protection
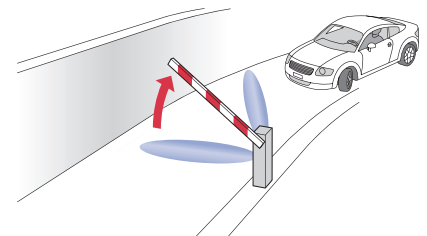
Application
Activation and presence detection at barriers

Solution
Installation of 2 ProAccess devices, one for barrier activation (in 45°), one for vehicle protection (in 90°) and an S-Line safety edge

Benefits
- No surface works through above ground mounting

Technical data

Mechanical data

Colour	Grey / dark grey
Housing material	ABS
Dimensions	175×80×72.5 mm (L×W×D)
Weight	420 g
Installation height	500 mm
Sensor angle adjustment	Left and right: ±30 degrees

Technological data

Technology	Microwave: 24 GHz, Ultrasonic: 56 kHz
Sensing distance	Microwave 0.8 to 5.5 m, max. range adjustable; Ultrasonic 0.1 to 1.5 m, max. range adjustable
Detectable vehicle speed	2 to 20 km/h (12 miles)
Advanced functions	People suppression, presence timer, sensitivity boost

Electrical data

Supply voltage	12–24 VDC
Power consumption	Heater enabled: < 200 mA, heater disabled: < 80 mA (at 24 V)
Response time	500 ms
Input	Active low / high, switchable
Output	Relay output 30 VDC, 0.3 A (no/nc switchable)
Display	Status: multi colour LED (green, red, yellow, purple, blue); Settings with buttons and LEDs

Ambient conditions

Protection class	IP65
Ambient temperature	−30° C to +50° C
Operating ambient humidity	95% max. (no condensation)

Directives

Directives	RED 2014/53/EU, RoHS 2011/65/EU, WEEE 2012/19/EU

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 properties of the products. This does not apply to special product properties confirmed by us in writing or individually. Subject to technical alterations.
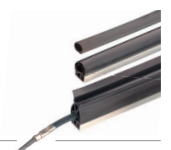
Ordering information

Article no.	Description	
398522	**ProAccess** Sensor for vehicle detection at barriers and gates	
399601	**Bracket PrAc** Mounting bracket	

Supplementary products

S-Line
Electrical miniature safety edge system

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

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