

# Reflex

motion

The higher standard  
in motion sensors for automatic doors

sensing the future



Reflex: raising the bar

- **Meets or exceeds the new ANSI 156.10-2005 standards** as independently tested by TÜV [USA]
- **Higher performance** with advanced digital K-band microwave technology - Swiss engineered
- **Faster set-up** with preconfigured convenience functions including high-risk, retail, etc. and special features such as cross traffic immunization
- **Added safety** with advanced Slow Motion Detection [SMD]
- **Accelerated installation** and set-up with RC Duo, our exclusive bidirectional remote control
- **Increased energy conservation** with unidirectional sensing option



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**BIRCHER REGLOMAT**  
sensing the future

## Discover the higher standard in motion sensors for automatic doors

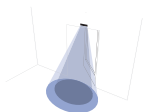
**Reflex**  
motion

Reflex is not another motion sensor: it is the fruit of years of dedicated Swiss engineering focused on one goal: raise the bar of motion sensors to provide you with a higher overall value.

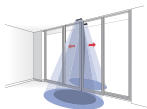


## Applications

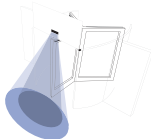
### SWINGING DOOR ACTIVATION



### SLIDING DOOR ACTIVATION



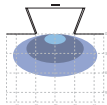
### REVOLVING DOOR ACTIVATION



Reflex is the most versatile sensor available. Its flexible design makes it the ideal solution for any door type. Reflex offers a wide range of sensing field shapes and sizes, it can be mounted vertical or horizontal, and it can be recessed into a false ceiling. It can also be mounted on the side of a door. It is also equipped with SMD [Slow Motion Detection - dark blue area] which detects speeds as low as 2.5"per second!

## Sensing fields - with SMD!\*

### WIDE SENSING FIELD

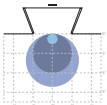


Max. size: 13.1' x 6.6' (4m x 2 m)  
Min. size: 3.3' x 1.6' (1 m x 0.5 m)

The Reflex offers a wide variety of sensing field sizes and shapes. With one sensor, cover all your applications, even the most challenging.

Light blue area: smallest motion sensing field

### NORMAL SENSING FIELD



Max. size: 8.2' x 8.2' (2.5 m x 2.5 m)  
Min. size: 1.6' x 1.6' (0.5 m x 0.5 m)

Medium blue area: largest motion sensing field

Dark blue area: \*SMD [Slow Motion Detection] with detection of speed as low as 2.5' / s. Fields measured with sensor mounted at 72" [2.2 m]

## Accessories



**RC Duo**  
Remote Control Duo  
**Exclusive bidirectional remote control with immediate feedback from the Reflex on the remote.**



**RE-CR**  
Reflex Ceiling Recess  
**Enables the installation of the Reflex in a ceiling.**



**RE-RP**  
Reflex Rain Protection  
**Protects the Reflex from the weather.**



**RE-CM**  
Reflex Compatibility Mounting  
**Replace other sensors with the Reflex using existing holes.**



**RE-CD**  
Reflex Curved Door  
**Enables the installation of the Reflex on a curved surface, such as revolving door.**

## Components



1. connector
2. infrared receiver
3. LED indicators
4. adjustment buttons
5. antenna bracket for front adjustment
6. microwave motion sensor
7. ring for lateral adjustment
8. cable
9. mounting template
10. sensor cover

## Ordering

part number	name	description
<b>sensors</b>		
F531.115000	Reflex ES C black	Reflex with one way detection, RJ plug-in connector
F531.115050	Reflex ES black	Reflex with one way detection, terminal screw connector
F531.115100	Reflex C black	Reflex with two way detection, RJ plug-in connector
F531.115150	Reflex black	Reflex with two way detection, terminal screw connector
<b>accessories</b>		
F531.115900	RE-CD 1.0	Reflex Curved Door 1.0: adapter for curved doors - diam. 6'- 12' [1.8 - 3.6 m]
F531.115901	RE-CD 2.0	Reflex Curved Door 2.0: adapter for curved door - diam. 12'- 20' [3.6 - 6 m]
F531.115902	RE-CR	Reflex Ceiling Recessed: ceiling recess mounting kit
F531.115903	RE-CM	Reflex Compatibility Mounting
F531.115904	RE-RP	Reflex Rain Protection
F539.90000	RC Duo	Remote control [bidirectional]

## Technical specifications

### general characteristics

supply voltage	12 to 36 V DC / 12 to 28 V AC
power frequency	50 / 60 Hz
operating current	70 mA at 24 V AC
mounting height (max)	13" (4.0 m)
degree of protection	IP 54
product conformity	R&TTE 1999/5/EC & EMC 89/336/EEC - FCC - ANSII/BHMA 156.10-2005
dimensions	6.9" [W] x 2.4" [H] x 2.1" [D] (176 x 62 x 54 mm)
housing material	cover: ABS, base: ABS
color of housing	black, white, silver
cable length	10' with plug (3 m)

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### motion detector

technology	digital planar microwave
transmitter frequency	24.125 GHz
output specifications	relay max. contact voltage: 48V AC / DC max. contact current: 0.5 A AC / 1 A DC max. switching power: 30 W / 60 VA
output hold-time	0.2 s to 0.5 s adjustable only with RC-Duo remote control
manual adjustments	wide / short to narrow / deep field with clip position of the sensing field in 2 axes: mechanical multiple functions: push buttons & switches
remote control	multiple functions: output signal, convenience functions, detection mode, field size, hold time, cross traffic immunization, slow motion detection (SMO), digital filter
minimum detection speed	0.25' / s

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