

Profusion

motion + presence

The next generation of combined motion and presence detectors for automatic doors

sensing the future



Profusion: leading the way

- **Meets or exceeds the new ANSI 156.10-2005 standards** as independently tested by TÜV [USA]
- **Higher performance & reliability** with advanced digital K-band microwave and active infrared technology
- Swiss engineered
- **Advanced flexibility** with two adjustable rows of focused active infrared for presence detection
- **Higher safety** with advanced Slow Motion Detection [SMD]
- **Accelerated installation** and set-up with RC Duo, our exclusive bidirectional remote control
- **Increase energy conservation** with unidirectional sensing
- **Faster set-up** with preconfigured applications based on the nature of the building



Discover the next generation of combined motion and presence sensor for automatic doors

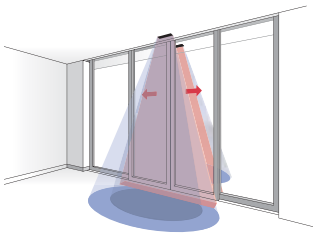
Profusion
motion + presence

Profusion is the ideal all-in-one sensing system for automatic sliding doors. Profusion integrates two sensing technologies: a microwave sensor for motion detection and a double curtain active infrared sensor or presence along the door.



Applications

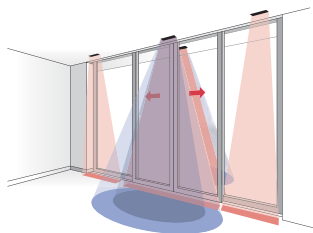
SLIDING DOOR ACTIVATION & SAFETY



Added safety with SMD [Slow Motion Detection, dark blue area]: detection of speeds as slow as 2.5" per second!

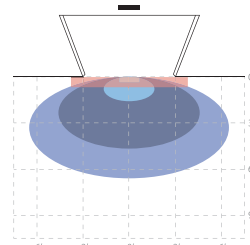
Profusion is the ideal system to make sure your sliding doors are compliant with the latest ANSI standards. Install a Profusion on both sides of your sliding doors for a complete activation and safety system. With this set-up, there is no need for safety beams, which will save your organization time and money.

COMBINED WITH OTHER SENSORS TO ADD SIDE LITE SAFETY

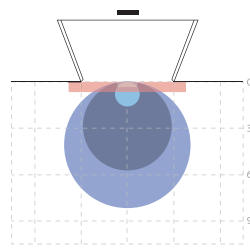


Combine two Profusions with a pair of Safescans in order to add side lite safety to your sliding door: this system provides comprehensive safety in all areas of the door, during all cycles. This system is ideal for high-risk facilities [exceeds ANSI standards].

Sensing fields - with SMD!*



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



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]

Profusion integrates two sensing technologies: a microwave sensor for motion detection [blue areas] and a double curtain active infrared sensor or presence along the door [red area].

Light blue area: smallest motion sensing field

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 7'2" [2.2 m]



RC Duo
Remote Control Duo
 Exclusive bidirectional remote control with immediate feedback from the Profusion on the remote



Profusion Rain Protection [PRFU-RP]
 Protects the Profusion from the weather.



Profusion Ceiling Recessed [PRFU-CR] kit
 Enables the installation of the Profusion in a ceiling for recessed or concealed applications.



Profusion Ceiling Attached [PRFU-CA]
 Enables the installation of the Profusion attached to the ceiling.

Accessories

Components



1. sensor
2. cover
3. cable
4. LED indicator
5. active infrared presence sensor
6. microwave motion sensor
7. clip in clip storage (wide field)
8. mounting screws
9. mounting template

Ordering

part number	name	description
sensors		
F534.116000	Profusion ES black	Profusion with one way detection
accessories		
F534.116900	PRFU-CA	Profusion Ceiling Attached: ceiling mounting bracket
F534.116901	PRFU-CR	Profusion Ceiling Recessed: ceiling recessed mounting
F534.116902	PRFU-RP	Profusion Rain Protection: weather protection housing
F539.90000	RC Duo	Remote control

Technical specifications

general characteristics	
supply voltage	12 to 36 VDC
power frequency	50 / 60 Hz
operating current	max. 200 nA
mounting height [min / max]	4.9' / 9.8' [1.5 m / 3.0 m]
degree of protection	IP 54
product conformity	R&TTE 1999/5/EC & EMC 89/336/EEC - FCC - ANSI/BHMA 156.10-2005
dimensions	9.84" x 2.44" x 1.85" [250 x 62 x 47 mm]
housing material	cover: ABS; base: ABS / PC
color of housing	black / silver
cable length	10' with plug [2.5 m]

Bircher Reglomat

909 E. Oakton St.

Elk Grove Village, IL 60007

Phone 800.252.1272

Fax 847.952.2005

motion sensor	
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
output hold-time	max. switching power: 30 W / 60 VA
output hold-time	0.2 s to 0.5 s
manual adjustments	wide / short to narrow / deep field: with clip
	position of the sensing field in 2 axes: mechanical
remote control	multiple functions: push buttons & switches
	multiple functions: output signal, convenience functions, detection mode, field size, hold time, cross traffic immunization, slow motion detection [SMD], digital filter.
minimum detection speed	0.25"/ s
presence sensor	
technology	digital focused active infrared
number of curtains	2
response time	typ. 400 ms
output specification	transistor
	configurable as NPN or PNP (jumper)
	short circuit proof
	max output current: 100 mA
manual adjustments	max switching power: 40 V DC
	orientation of sensing field
	shape of sensing field [with adhesive masks]
remote control	multiple functions: push buttons
remote control	multiple functions: output signal, width of sensing field, and more.

US05.001 10/06 Bircher Reglomat reserves the right to change any information on this document without notice.