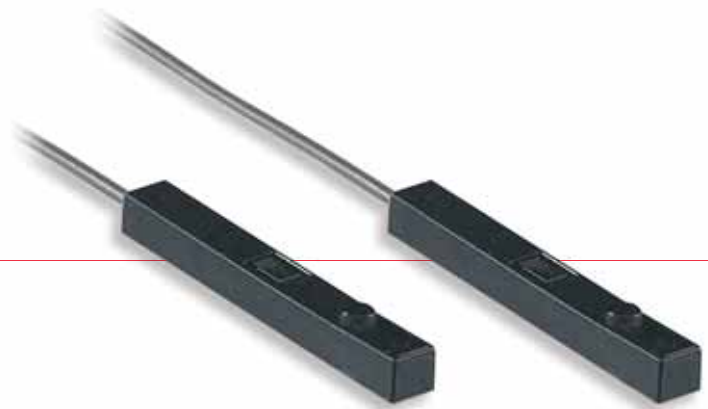


BIRCHER REGLOMAT



sensing the future



ClearBeam

One-way light barrier

Easy, reliable, discrete

- Reliable and simple safeguarding system with proven technology
- High performance with a range up to 19.7 ft (6m)
- Slim and compact design for easy direct installation – ideal for door profiles with limited space
- The electronics is completely built-in which saves space and speeds up the installation process

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ClearBeam

One-way light barrier

Proven technology for a large variety of applications

The ClearBeam can be used for a large variety of applications and guards up to 19.7 ft (6 m) in distance. The powerful and compact one-way light beam system also is reliable and highly consistent in tough environments (i.e. IP65).

The long time proven technology provides the highest level of quality and safety.

Compact design

The small and space saving sensor can be easily integrated into the door frame and is very easy to install. It is designed to be directly built into the profile.

Integrated electronics saves space and reduces cost

The electronics are fully integrated into the light barrier. Thus no external supporting electronics is needed.



Your benefits

Easy installation

- Can be mounted directly on the profile by using just one screw

Short set up time

- The transmitter alignment is done very easily. The LED on the receiver will illuminate as soon as the transmitting signal is received

Safety ensured by testing operation

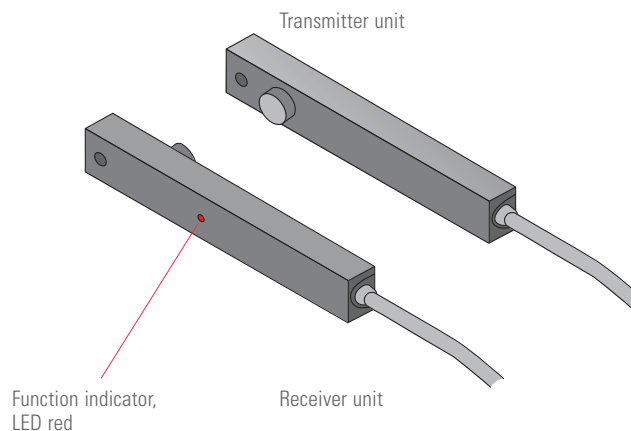
- The functional testing of the light beam can be done simply by just switching off the operating voltage to the transmitter and ensuring the output changes state

A suitable versions for every control system

- The ClearBeam can be supplied with all types of transistor outputs as well as active or passive switching modes

Robust and reliable

- The cable which is connected to the housing or to the plug connector provides safe operation in tough conditions (i.e. IP65)



Further accessories

Use the mounting bracket for an easy and nice looking flush mount.



Mounting bracket



Safe in any application

Situation

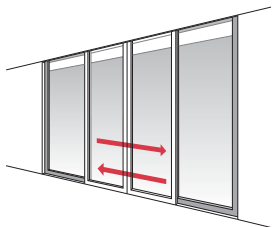
Main closing edge of sliding doors

Solution

- Provides a safeguard for the main closing edge of sliding doors

Benefits

- Simple, on the spot and precise protection system
- Space-saving solution



Situation

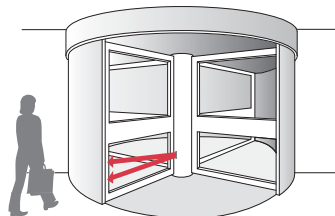
Lower door panel of revolving doors

Solution

- Protection system for the door and heel protection

Benefits

- People are detected promptly and touchless with an invisible system
- Safe and dynamic automatic operation of the door



Situation

Main closing edge of overhead doors

Solution

- The light barrier prevents the gate or door from closing if the opening is not clear, avoiding collision with people and/or vehicles with the door

Benefits

- Touchless and fast reacting safeguarding device
- The door/gate is held open during occupancy



Situation

Activation of escalators

Solution

- The ClearBeam recognizes people and triggers the restart

Benefits

- The escalator only runs when people are present and thereby saves energy
- Thanks to its compact size, the light barrier is just one small component of the whole installation



Order details

Item no.	Description
212036	ClearBeam N.A Connection: Fixed cable L = 19.7' (6 m) Output: NPN, active switching
212042	ClearBeam N.P Connection: Fixed cable L = 19.7' (6 m) Output: NPN, passive switching
212047	ClearBeam P.A Connection: Fixed cable L = 19.7' (6 m) Output: PNP, active switching
212052	ClearBeam P.P Connection: Fixed cable L = 19.7' (6 m) Output: PNP, passive switching
212180	Mounting plate set of 2 , black
212181	Mounting plate , black



Additional products

Activation of automatic doors

Reflex 2 microwave motion detector with electronically adjustable range

MicroSense passive infrared motion detector with minimal dimensions ideal for recess mount

ThermoSense passive infrared motion detector for extended detection fields and installation heights up to 16.4 ft (5 m)



Specifications

Mechanical specifications

Housing material	PMMA
Weight	approximately 8.5 oz. (240 g)
Dimensions	0.46"x3.35"x0.36" (11.6 x 85.2 x 9.2 mm)
Type of connection	Cable 19.7 ft (6 m), AWG 7 (dia. 3.5 mm)

Technology specifications

Technology	Active infrared approx. 880 nm
Beams	1
Opening angle	±8 °
Operating range	0–19.7 ft (0–6 m) (2 x signal reserve)
Response time	10 ms

Electrical specifications

Supply voltage	11–30 V DC
Power consumption	35 mA at 24 V DC
Testing	Voltage switch-off of Transmitter (Test active at ≤ 5 V DC)
Signal output	NPN active, NPN passive, PNP active, PNP passive Transistor output, short-circuit proof Response time 5 ms Residual voltage < 1 V at 50 mA)
Switching voltage	max. 30 V DC
Switching current	max. 100 mA

Environmental conditions

Type of protection	Suitable for application in accordance to IP54
Operating temperature	–4 °F to +140 °F (–20 °C to +60 °C)
Humidity	< 90 % relative, non-condensing

Standards

EMV	89/336 EWG, 1996
Immission	EN 61000-6-2
Emission	EN 61000-6-3

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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