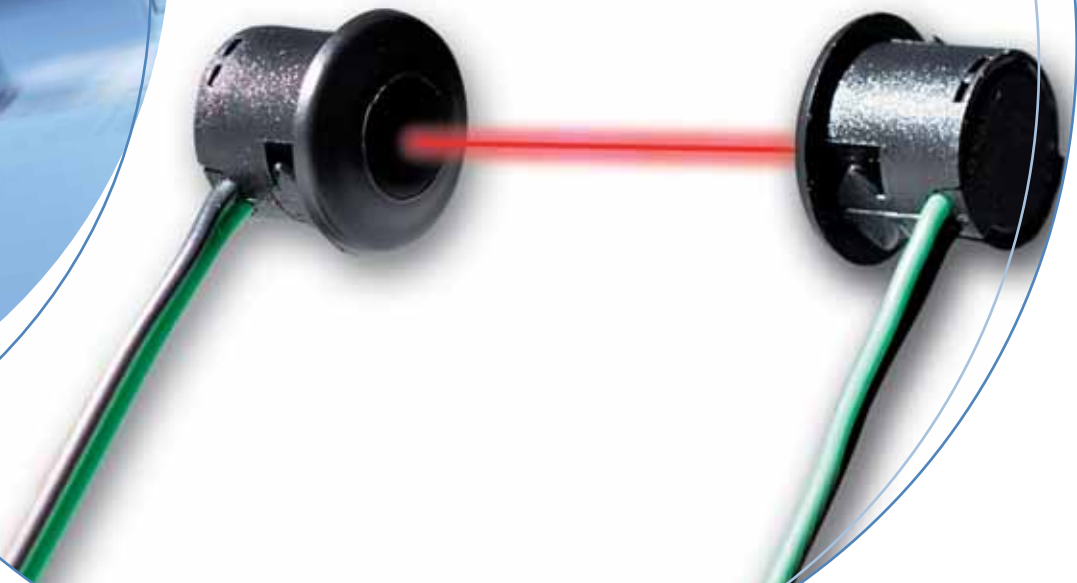


# MICROCELL

Safety

for automatic doors



The Microcell range is designed for the safety of pedestrian doors and is featured by a flexibility and an easiness for universal installations :

- reduced size for easy fittings in most of door profiles
- enables a mounting very close to the floor (20 cm - 40 cm), as well as an important range (5 m - 10 m) and can be lightly out of alignment
- protected against short time wrong connections and immuned to the ambient light (sunlight or artificial lighting)
- totally immune to interference and complies with the European standards 89/336/EEC
- Microcell Two complies with ESC standards, and with the French Ministerial Order on automatic doors in the workplace
- Microcell Three complies with the German directive ZH 1/494 on windows and doors activated by external energy sources
- plug supplied with a special sleeve that prevents from moisture problems

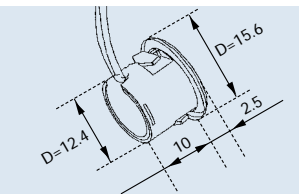
## Infrared barrier composed by an emitter and a receiver in cylindrical heads

The small-sized infrared beams that can be discreetly fitted into the profiles of single or double doors and which can also be used for specific applications (railways, security entrances, etc.).

- The Microcell range is available in several versions :
  - **Microcell One** : barrier composed by plug-in **cylindrical heads** with a 5 m cable and a control box with **one relay**
  - **Microcell Two** : barrier composed by plug-in **cylindrical heads** with a 5 m cable and a control box with **two relays**
  - **Microcell Three** : barrier composed by plug-in **cylindrical heads** with a 5 m cable and a **monitored** control box with transistor output

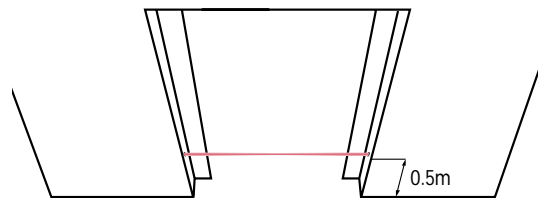
Notes :

- the Microcell range is available either in single (-S) or in double beam version (-D)
- an optional 10 m cable (-L) is also available

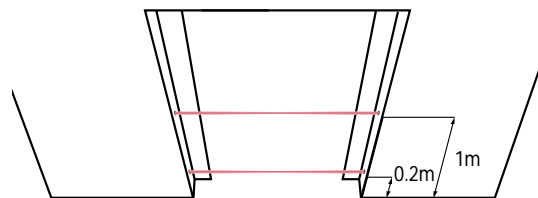


## Dimensions

## Sensing fields



Single beam



Double beam



## Accessory

MMA : surface mounting set

## Technical specifications

Technology	active infrared, microprocessor
Mounting height	min. 0.2 m above the floor
Distance between beams	min. 0.3 m (crossed beams)
Distance in relation to the door plane	2 cm
Minimum range	1 m
Maximum range	5 m - for min. mounting height of 0.2 m 10 m - for min. mounting height of 0.4 m
Half-opening angle of the beam	8°
Detection mode	presence (beam interruption)
Response time	<ul style="list-style-type: none"> <li>transistor output (Microcell Three) ≤ 10 ms (setting or interruption of the beam)</li> <li>relay output (Microcell One and Two) ≤ 40 ms</li> </ul>
Hold time	<ul style="list-style-type: none"> <li>relay output (Microcell One and Two) 300 ms</li> </ul>
Supply voltage (Microcell One and Two) (Microcell Three)	12-24 V AC ±10% - 12-24 V DC -5/+30% 12-24 V DC -5/+20%
Current consumption	< 100 mA
Output (Microcell One and Two)	1 or 2 relays (free potential contact) <ul style="list-style-type: none"> <li>relay contact ratings (max. voltage) 50 V DC / 50 V AC</li> <li>relay contact ratings (max. current) 1 A (resistive)</li> <li>maximum switching power 30 W (DC) / 50 VA (AC)</li> </ul>
Output (Microcell Three)	open collector transistor (NPN or PNP) <ul style="list-style-type: none"> <li>relay contact ratings (max. voltage) 30 V DC</li> <li>relay contact ratings (max. current) 20 mA</li> <li>voltage drop &lt; 2 V at 20 mA</li> </ul>
Signal	1 LED per barrier
Adjustment (by dip-switch - Microcell One and Two)	single / double barrier standard / inverted outputs reduced / nominal range test position
Adjustment (by dip-switch - Microcell Three)	NPN / PNP outputs normal / inverted outputs reduced range B / nominal range B reduced range A / nominal range A
Temperature range	-20°C to +55°C
Immunity	<ul style="list-style-type: none"> <li>sunlight 75000 lux</li> <li>incandescent lamp 25000 lux at 8° angle</li> <li>electromagnetic compatibility according to 89/336/EEC</li> </ul>
Waterproof heads	IP 65 (DIN 40050)
Dimensions	<ul style="list-style-type: none"> <li>heads housing : 10 mm (built-in) x 12.4 mm (diameter) collar : diameter 15.6 mm</li> <li>control box 94 mm (L) x 52 mm (W) x 28 mm (H)</li> </ul>
Cable length	5 m (10 m optional)
Weight	<ul style="list-style-type: none"> <li>emitter 0.140 Kg (5 m) / 0.270 kg (10 m)</li> <li>receiver 0.140 Kg (5 m) / 0.270 kg (10 m)</li> <li>control box 0.060 Kg</li> </ul>
Material	ABS
Housing color	blue transparent

## Application



Subject to change without notice



**BEA**

We open up New Horizons

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