

CRYSTAL

Reliable opening of
all automatic doors in
pedestrian precinct



Technology

- **Digital electronics** controlled by a powerful microprocessor
- Good resistance to rainfalls
- Conformity with European norms EMC (electromagnetic compatibility)
- **Universal voltage 12 to 24 V AC/DC**

Detection

- Very high detection power and speed
- **Adjustable sensing field** (see below)
- **Very short field : only 10 cm deep**
- Works perfectly up to 3 metres height

Adjustments

- **Functions** : active/passive output, normal or strengthened immunity, choice of frequency (to avoid mutual interference)
- Precise and reliable adjustments :
 - width of sensing field : 2 m or 1 m by **changing front lens**
 - depth of sensing field : 0.1m to 0.85m by **angular adjustment of pod**
- Ideal position of fixing screws, which facilitates mounting and prevents vandalism

Look

- Attractive and incredibly strong
- Virtually **vandal-proof** with its robust ABS housing and **not subject to maladjustments** thanks to a special system for fixing the housing
- Available in **3 standard colours** : anthracite grey, white or aluminium-finish

■ The opening of all automatic doors without disturbance due to parallel traffic

- Suitable for shallow detection fields with significant parallel traffic of people, who do not intend to go through the door.
- No disturbance due to parallel traffic : the door remains closed

■ Reliable detection of a person approaching slightly diagonally

- Shallow (10cm) but wide (2m) sensing field possible

■ Mounting height up to 3 metres

■ Permanent self-adaptation to changes of environment to avoid unwanted detection

BEA
We open up New Horizons

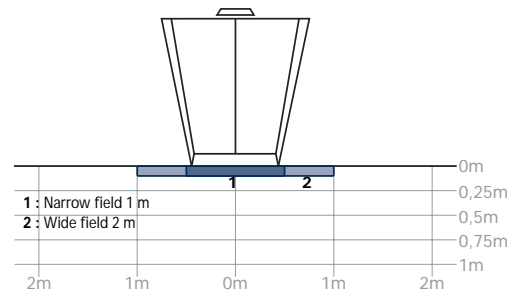
A
HALMA GROUP
COMPANY



Description

- 1 3 m cable
- 2 Connector
- 3 Dip-switches :
 1. detection of presence / motion
 2. active / passive output
 3. frequency 1 or 2
 4. normal or strengthened immunity
- 4 External housing
- 5 LED detection indicator
- 6 Optical block
- 7 Front faces (1 or 2 m field)
- 8 Fixing holes

Sensing fields



Sensing fields according to width adjustment
(height = 2.2 m)
NB : asymmetrical adjustments possible

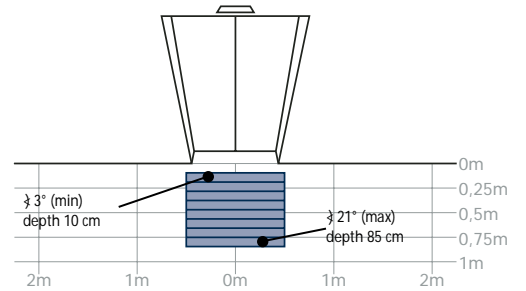


Accessories

- 1 CCA : for mounting in false ceiling
- 2 SPOTFINDER : to visualize the exact position of the curtain

Technical specifications

Technology	active infrared and microprocessor
Mounting height	<ul style="list-style-type: none"> • standard : 2.2 m • maximum : 3 m
Minimum distance from plane of the leaves	0.1 m
Sensing field at a height of 2.2 m	<ul style="list-style-type: none"> • wide field 2 m (W) x 0.1 m (D) (can be sloped to 0.85m in front of door) • narrow field 1 m (W) x 0.1 m (D) (can be sloped to 0.85m in front of door)
Diameter of each beam at a height of 2.2 m	0.1 m
Number of beams	<ul style="list-style-type: none"> • wide field 8 beams • narrow field 4 beams
Detection mode	presence and motion or motion only
Minimum detection speed	0 cm/s (on standard target) in presence
Automatic adjustment time	1 or 10 min
Response time	< 50 ms
Supply voltage	12 to 30 V DC $\pm 10\%$ 12 to 24 V AC $\pm 10\%$
Mains frequency	50 to 60 Hz
Power consumption	< 1 W (VA)
Standard inversion relay output (free potential contact)	<ul style="list-style-type: none"> • max. contact voltage 60 V DC / 125 V AC • max. contact current 1 A (resistive) • max. switching power 30 W (DC) / 60 VA (AC)
Output hold time	1.5 s (fixed)
Adjustments	<ul style="list-style-type: none"> • dip-switch 1 presence (ON), motion (OFF) • dip-switch 2 output logic • dip-switch 3 emission frequency • dip-switch 4 normal immunity (off) / reinforced immunity (on) • by rotation of optical block depth of field • by rotation and permutation of front face width of field
Temperature range	from - 25°C to + 55°C
Immunity	Electromagnetic compatibility (EMC) in accordance with 89/336/EEC
Dimensions	240 mm (W) x 51 mm (H) x 37 mm (D)
Weight	0.200 kg
Material	ABS and polycarbonate
Colours	anthracite grey, white or aluminium-finish
Length of cable	3 m
Degree of protection	IP54



Sensing fields according to depth adjustment
(height = 2.2 m)

Application



Subject to modifications

