

<<HOTRON>>

BP2v2

BP2v2 a miniature barrier of active infrared beams for automatic doors

Active infrared barrier BP2v2 is designed for automatic door threshold safety applications. Sun, artificial light and humidity resistance makes this device highly reliable.

Functional data:

- One controller operates one or two beams
- Range from 0m to 12m
- Possibility to use several sensors in close proximity
- Excellent sunlight resistance
- High level of artificial and florescent light resistance
- Sensor head is extremely resistant to water
- High level of humidity resistance
- Not activated by rain or insects
- Controller is operated by a microprocessor which is safe from any interferences and voltage's supply oscillations
- Easily configured with almost any automatic door,
- Sensitivity of each beam can be regulated independently using a potentiometer
- **As long as the distance between transmitter & receiver sensor heads is greater than one meter and lower then 6 meters, the sensitivity does not require any adjustment (Factory potentiometer setting: middle)**
- Intelligent software means the sensor can automatically configure itself for 1 set of beams or two sets of beams per controller
- Easily adaptation to all kinds of aluminium profiles
- Cables ends with connectors on the head's side
- Very small Controller
- Small detector heads (head's hole: 12mm)
- Transmitters and receivers protected against electrical damage
- Controller is protected by a modern polymeric fuse
- Cables has different colours: black - transmitter, grey – receiver

Installation instructions:

- Drill heads' holes to a diameter of 12mm each and remove rough hole edges.
- Insert cables through holes, taking care not to damage cable insulation on rough edges.
- Insert the Sensor Holder into the drilled hole. Push the Sensor Head into the Sensor Holder until the flange meets the door frame.
- Connect cables belonging to heads to the controller. The cable shield connects to middle pin. If only one beam is used cables should be connected with sockets T1 and R1 and T2, R2 should be left free.
- Fix the controller to the doors drive. Stick it with montage sponge or screw it with two screws.
- The excess cable should be rolled up and fasten down out of the way of moving parts of the door's drive.
- Connect the controller with the door controller; NC contact is shorted when beams are not interrupted; NO contact is shorted when the beam(s) is interrupted and when power is not supplied to the controller.
- Connect power supply to the controller (12V-24V AC DC).
- If distance between heads is grater then 6m or lower then 1m, sensitivity regulation should be performed. Always set the sensitivity higher then this which causes detection.

Technical data:

Type	BP2v2-1 (one beam)	BP2v2-2 (two beams)
Detection method	active infrared 950nm	
Range	0 do 12m	
Power supply	12V-24V AC DC \pm 10%	
Power consumption	<40mA	<45mA
Output relay	1C type (one switching contact) 50V DC; 0,1A (resistance load)	
Response time for beam's breaking	50ms	
Response time to passage's release	100ms	
Min. output relay operating time	0,3s	
LED indication	LED RED – monitoring LED OFF 1 time – detecting beam #1 interrupt LED OFF 2 times – detecting beam #2 interrupt LED OFF 3 times – detecting beam #1 and 2 interrupt	
Sensitivity adjustment	independent for both beams	
Number of beams select	automatic	
Cables' length	Standard: 6m Also available: 7m, 10m, 12m and 15m	
Sunlight resistance	150'000 Lux	
Artificial light resistance	50'000 Lux	
Operating temperature	-35C to +55C	
Header's colour	transparent	
Controller's cover colour	black	
Weight	235g	370g
Equipment	<ul style="list-style-type: none"> • One controller • One set of headers with cables • Montage sponge • Instruction 	<ul style="list-style-type: none"> • One controller • Two sets of headers with cables • Montage sponge • Instruction

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