

# SAFETY BEAM USER GUIDE

Infra-red beam is suitable for automatic door, it provides safety protection to people pass through. The safe beam can be installed at all kinds of door frames because of its small size. In addition, microprocessor operating system redefines the safety standards to protect pedestrians, and develops a new smarter and higher performance range.

## Technical data

Technical:	infra-red, microprocessor
Installation height:	Min 0.2m above floor
Distance between beams:	Min. 0.2m(reverse beam)
Distance to door face:	2 cm
Min. range:	1 m
Max. range:	10m( installed at height of 0.2m)
avertence angle:	8 °
Detection mode:	cut off beam
Reaction time:	
• Relay output:	≤ 40ms
Hold time:	
• Relay output:	300ms
Power voltage:	12-36V AC±10%
	12-36V DC±10%
Power consumption:	<1 W

Signal display: each beam has a light on the controller box

Adjustment:( turn DIP switch)

1 single/double beam

2 Beam far / near

Environment temperature: -20 °C ~+55 °C

Wire length: 5m

Detector wire colors

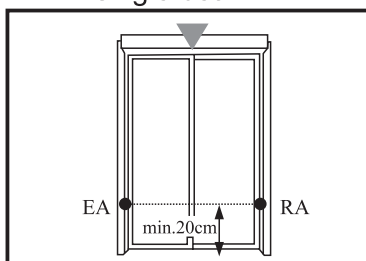
- receiver: blue/black
- sender: blue/grey

Wire colors

- receiver: black
- sender: gray

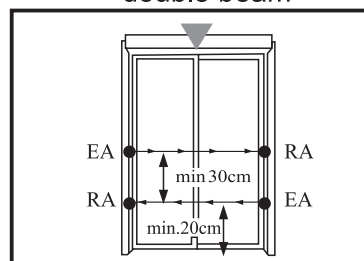
## Installation

single beam

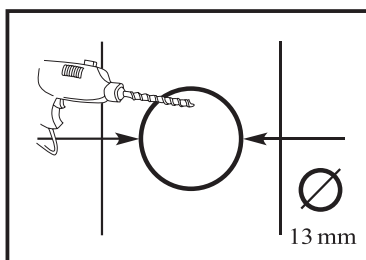


- choose installation height
- make a height mark
- beam is above floor at least 20cm

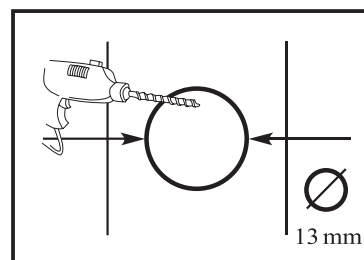
double beam



- choose installation height 1 & 2
- distance between h1 & h2 at least 30cm
- make marks h1 & h2
- beam is above floor at least 20cm



- drill a vertical hole 13mm(or 1/2") on each side of the frame

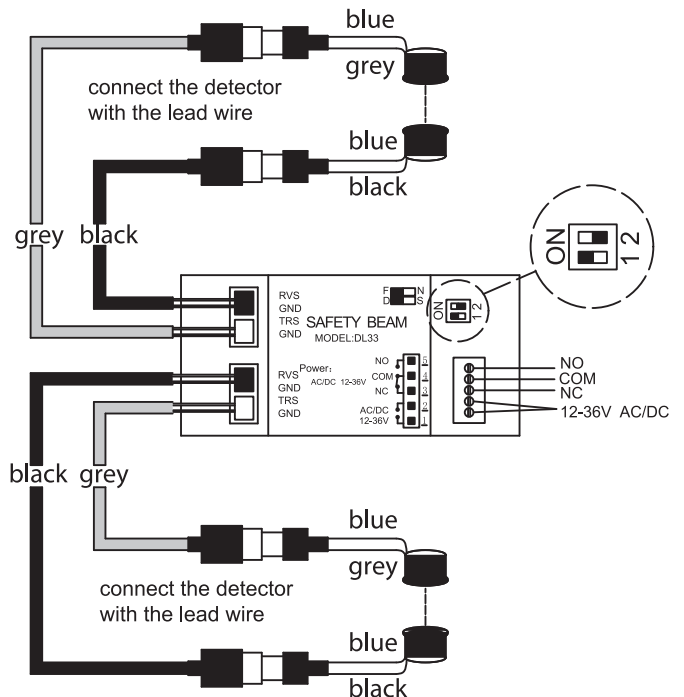
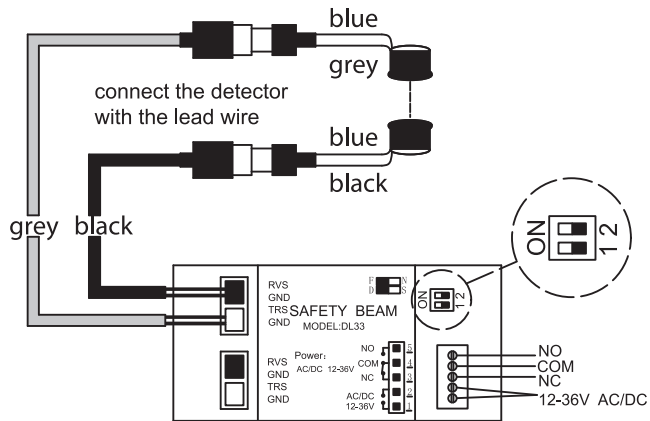


- drill two vertical holes 13mm(or 1/2") on each side of the frame

## Cable connection

safety beam (double) ▶

▼ safety beam (single)



## Setting

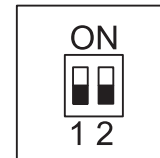
setting of DIP switch

Switch 1: safety beam (single) / safety beam(double) choose the setting of the DIP switch

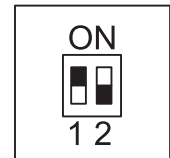
Switch 2: The light beam emit far / near

function \ NO	1	2
ON	safety beam(double)	near
OFF	safety beam(single)	far

safety beam (single)



safety beam (double)



## Trouble shooting

The control unit is equipped with two indicators, and each beam with a led light .

Two lights are green, the beams are connected, there is no block between beams .

One of the light is red, this beam is cut off .

Two lights are off, means no power .

Before finished door installation, the indicator lights can be seen, installer can aim the detector at correct direction by seeing indicator lights.

symptoms	possible causes	solutions
Light A and (or) Light B turn red	Cable connection is wrong/alignment error/ Supply power is wrong	a.check the cable connection of receiver and sender b.check DIP switch position c.check the voltage d.check if the sender and the receiver is at the correct seat.
Light(s) is red, but the door has no action	Cable connection of relay output is wrong	a.check the cable connection from door controller b.check if connect the COM and NO
Light(s) is green, but the door can't close normally	Cable connection of relay output is wrong Door controller provides signal NC	a.check the cable connection from door controller b.check if the door controller provides signal NO