



Active Infrared
Safety Beam



Single Beam

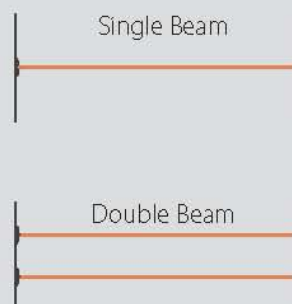
HTP-21E
HTP-21C

Double Beam

HTP-22E
HTP-22C

- HTP-20E and HTP-20C mounted in door jambs can prevent pedestrians from getting caught in the door by keeping the door open when the threshold area is occupied.
- User-friendly controller and easy-to-setup connector type sensor head allow simpler and easier setting and installation, compared to the previous generation.
- The way of mounting of a transmitter and a receiver is selectable with direct facing installation or direct reflection.

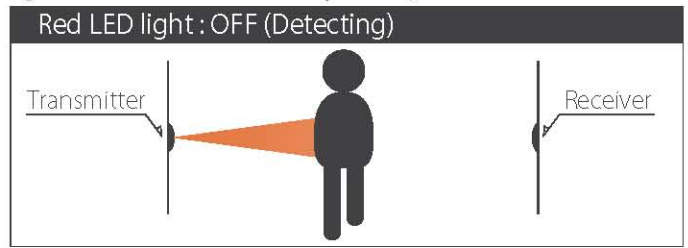
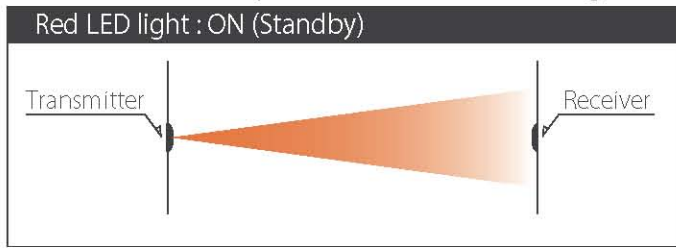
Both a single set use of a transmitter and a receiver and a double set are available.



Detection Theory

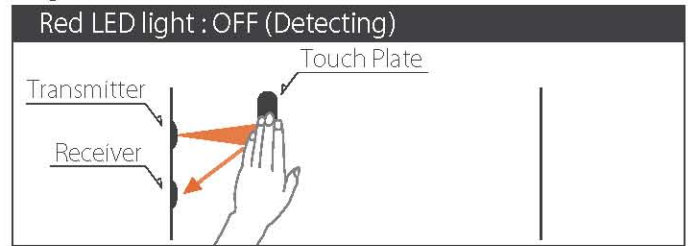
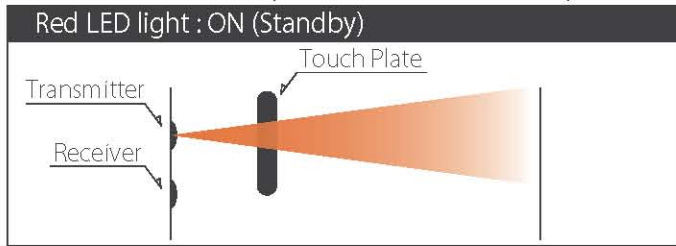
Direct facing setting

HTP-20E and HTP-20C prevent the door from closing when the light beam is blocked out by an object.

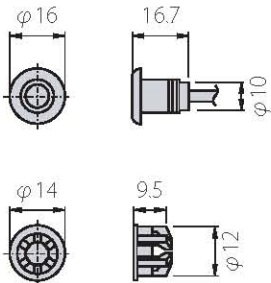
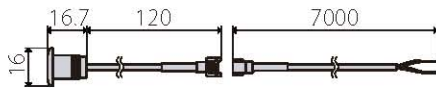


Direct reflection setting

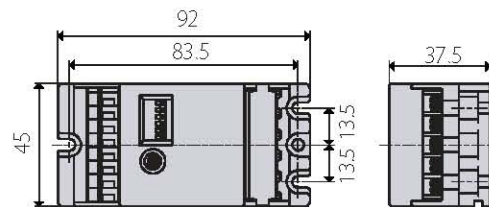
HTP-20E and HTP-20C open the door when an object reflects the light beam.



External Dimensions [mm]



Controller HTP-20



Technical Specifications

Model	HTP-21E, HTP-22E, HTP-21C, HTP-22C
The number of beams	One beam (HTP-21E and HTP-21C) Two beams (HTP-22E and HTP-22C)
Detection Method	Active infrared detection
Detection Range	Direct facing setting : 7.0m Direct reflection setting : 1.0m
Power Supply	HTP-21E and HTP-22E : 100V AC \pm 10% HTP-21C and HTP-22C : 12 ~ 24V AC/DC \pm 10%
Power Consumption	3.0V or below 3.0VA
Output Contact	Relay contact (AC100V)
Output Holding Time	Direct facing setting : 0.2 sec. or 0.5 sec. Direct reflection setting : 0.2 sec., 0.5 sec., 1.5 sec., or 3.0 sec.
Response Timer	0.1 sec.
LED Indicator	Red ON : Standby Red OFF : Detecting
Operating Temperature	-20 to 55°C
Weight	80g (1 Controller) 180g (1 Set of beams)