

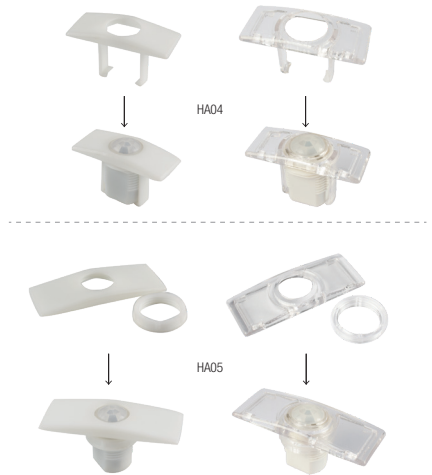


## 1. Technical Specifications

Sensor principle	PIR detection
Operation voltage	9.5–22.5VDC
Consumption current	Max.10mA(no LED) Max.11mA(with LED)
Detection range *	HIR61 Max installation height: 3m Max detection range (Ø): 12m
	HIR61/R Max installation height: 8m (for person) Max installation height: 12m (for forklift) Max detection range (Ø): 14m
Lux reading range	< 1000 lux
Detection angle	360°
Operation temperature	Ta: -20°C – 50°C
Storage temperature	-40°C – +70°C
Relative humidity	10 – 90%
IP rating	IP20
CE	EN55015, EN61547, EN61000-3-2/-3-3, EN62386-101/103, EN62386-303/304, Zhaga Book 20
Warming-up	5s

\* The detection range is heavily influenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.

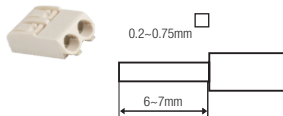
### Optional Accessories



### Demonstration of installation for transparent version



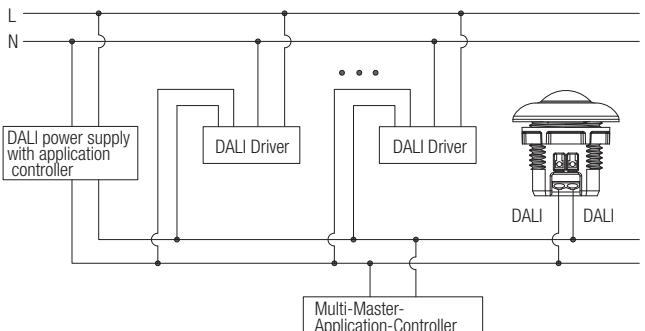
### Wire Preparation



To make or release the wire from the terminal, use a screwdriver to push down the button.

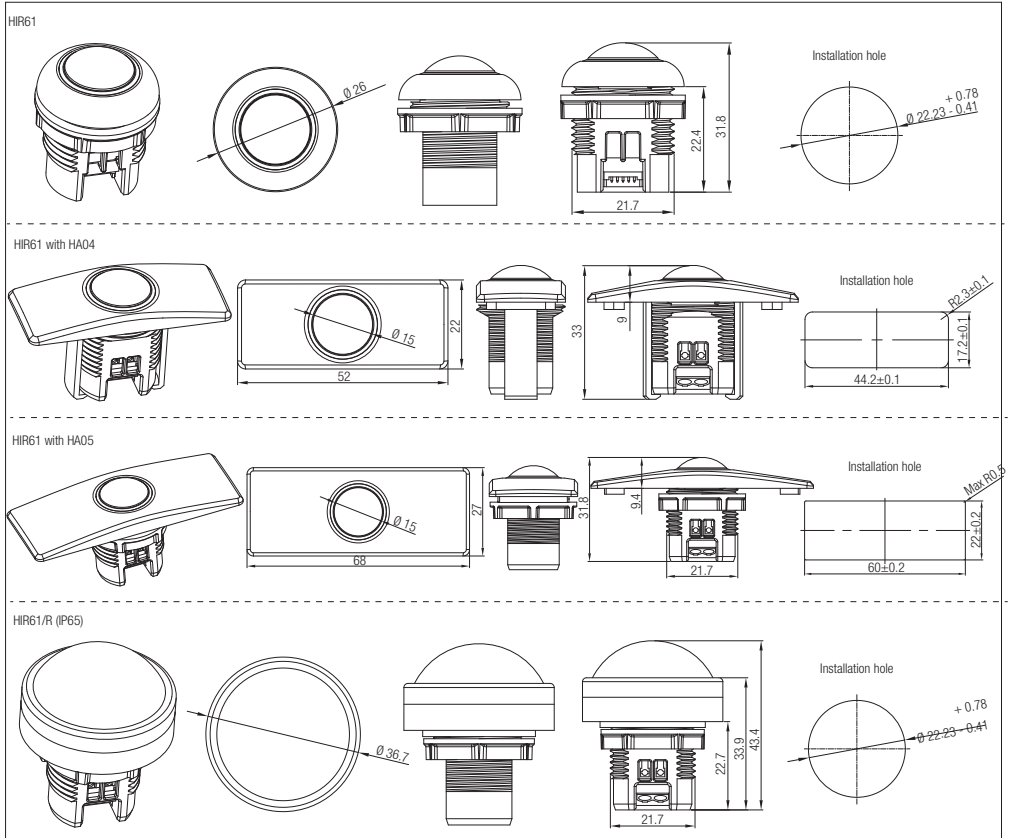
1.100 metres (total) max. for 0.5mm<sup>2</sup> CSA (Ta = 50°C)  
2.150 metres (total) max. for 0.75mm<sup>2</sup> CSA (Ta = 50°C)

### Wiring Diagram



## 2. Installation

### Mechanical Structure & Dimensions



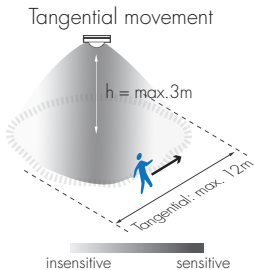
## Detection Pattern - - Diagram 1

The data below is tested under following conditions:

- Single person walking;
- Sensor not connected to any driver that may have soft-on period;
- Testing temperature  $T_a = 20^\circ\text{C}$ ;
- The testing is conducted in an open and spacious indoor field, without noticeable obstacles or influences that may affect PIR performances.



**HIR60**



Mount height	Tangential Movement
3m	max 113m <sup>2</sup> (∅ = 12m)

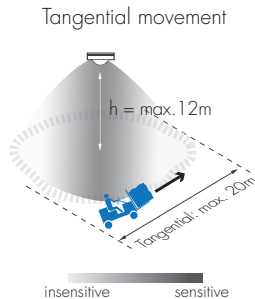
## Detection Pattern - - Diagram 2

The data below is tested under following conditions:

- Forklift driving;
- Sensor not connected to any driver that may have soft-on period;
- Testing temperature  $T_a = 20^\circ\text{C}$ ;
- The testing is conducted in an open and spacious indoor field, without noticeable obstacles or influences that may affect PIR performances.



HIR60/R



Mount height	Tangential Movement
8m	max 201m <sup>2</sup> (Ø = 16m)
9m	max 227m <sup>2</sup> (Ø = 17m)
10m	max 254m <sup>2</sup> (Ø = 18m)
11m	max 314m <sup>2</sup> (Ø = 20m)
12m	max 314m <sup>2</sup> (Ø = 20m)

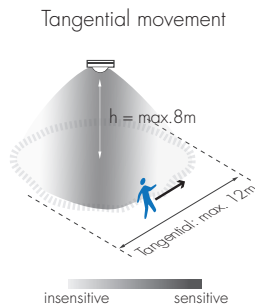
## Detection Pattern - - Diagram 3

The data below is tested under following conditions:

- Single person walking;
- Sensor not connected to any driver that may have soft-on period;
- Testing temperature  $T_a = 20^\circ\text{C}$ ;
- The testing is conducted in an open and spacious indoor field, without noticeable obstacles or influences that may affect PIR performances.



HIR60/R



Mount height	Tangential Movement
3m	max 38m <sup>2</sup> (Ø = 7m)
4m	max 50m <sup>2</sup> (Ø = 8m)
5m	max 50m <sup>2</sup> (Ø = 8m)
6m	max 64m <sup>2</sup> (Ø = 9m)
7m	max 95m <sup>2</sup> (Ø = 11m)
8m	max 113m <sup>2</sup> (Ø = 12m)

### 4. Additional Information / Documents

1. Regarding precautions for PIR Sensors installation and operation, please kindly refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->PIR Sensors - Precautions for Product Installation and Operation
2. Data sheet is subject to change without notice. Please always refer to the most recent release on [www.hytronik.com/products/Motion Sensors](http://www.hytronik.com/products/Motion%20Sensors) ->Stand-alone Sensors
3. Regarding Hytronik standard guarantee policy, please refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->Hytronik Standard Guarantee Policy