





### Product Description

HIR61/TK is a DALI-2 PIR motion sensor for the DALI track system, with 3-phase dial and works as DALI input device, no PSU integrated. The installation only requires simple insertion into the track. It is embedded with a DALI-2 module, PIR sensor, and daylight sensor. The surprisingly super-mini size and needless wiring bring more convenience to use, it is ideal for both commercial and domestic track light projects.



### Hardware Features

-  2-in-1: PIR motion sensor + Daylight sensor
-  Super compact mini size
-  5-year warranty
-  Compliant to standard IEC62386\_101, 103, 303, 304, 351

### Technical Specifications

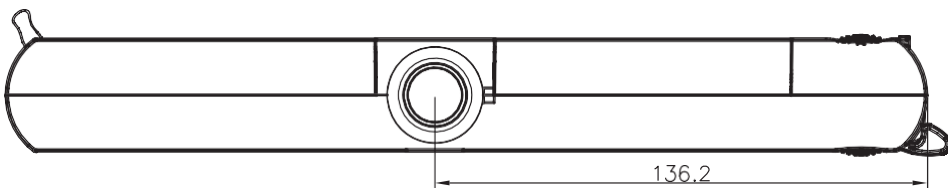
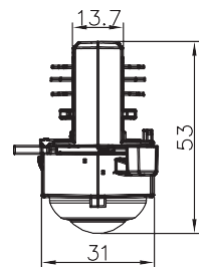
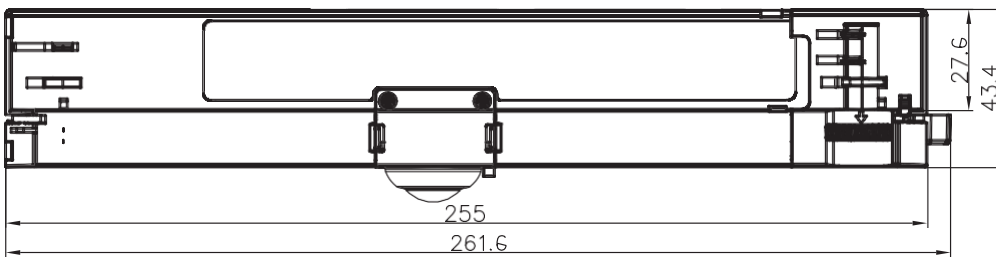
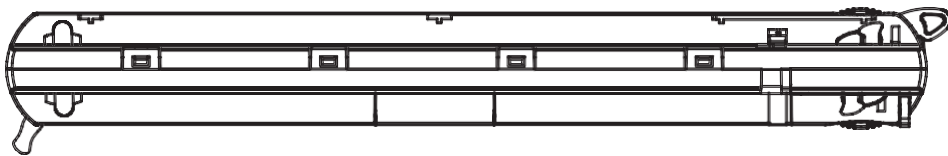
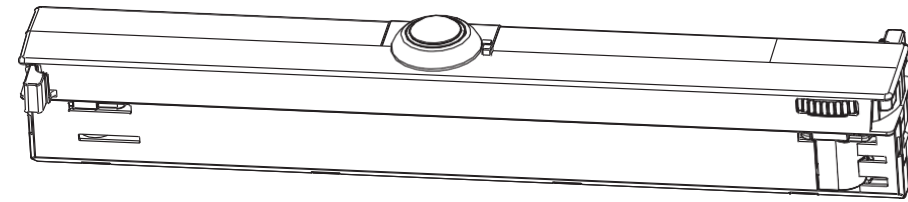
PIR Sensor Properties	
Sensor principle	PIR detection
Operation voltage	9.5~22.5VDC
Consumption current	Max. 10 mA (no LED) Max. 11 mA (with LED)
Detection range *	Max installation height: 3m Max detection range (Ø): 12m
Lux reading range	< 1000 lux
Detection angle	360°
Warming-up	5s

Environment	
Operation temperature	Ta: -20°C ~ 50°C
Storage temperature	-40°C ~ +70°C
Relative humidity	10 ~ 90%
IP rating	IP20

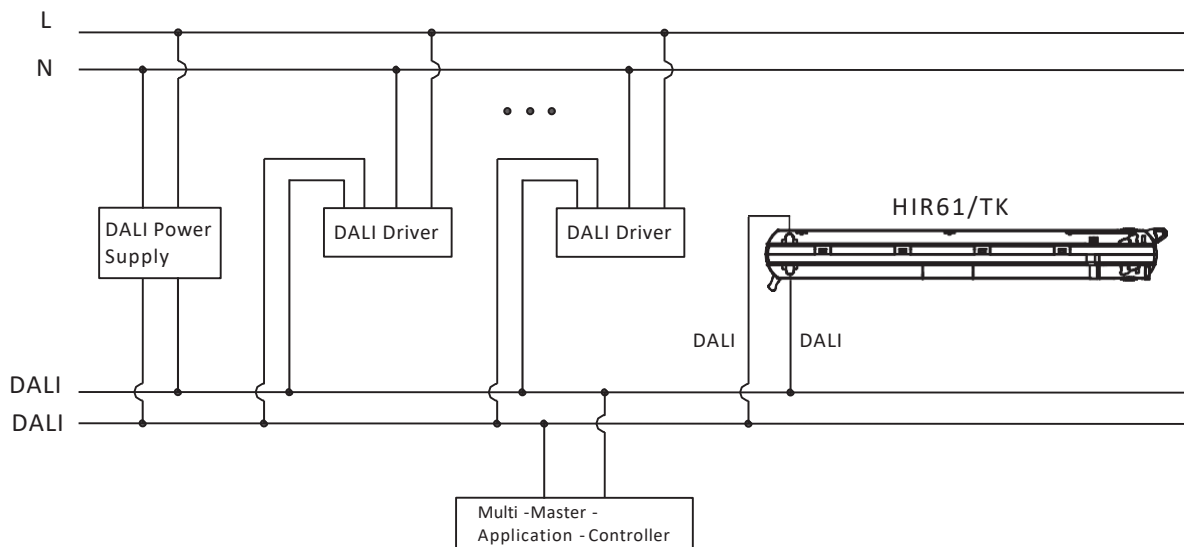
Safety & EMC	
CE	EN55015, EN61547, EN61000-3-2/-3-3, EN62386-101/103, EN62386-303/304,

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

## Mechanical Structure & Dimensions



## Wiring Diagram



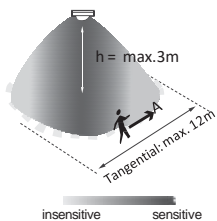
Note: HIR61/TK has been used as DALI-2 input device to only report DALI instance (light sensor instance and motion sensor instance) to DALI-2 application controller, who is the “main brain” to process the data communication between input devices and the control gear and assign different function.

## Detection Pattern

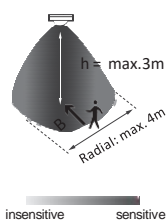
The data below is tested under following conditions:

- 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.

A: Tangential movement



B: Radial movement



Mount height	Tangential Movement (A)	Radial Movement (B)
3m	max 113m <sup>2</sup> ( $\varnothing = 12\text{m}$ )	max 12m <sup>2</sup> ( $\varnothing = 4\text{m}$ )

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