

Functions and Options

1 Tri-level Control (Corridor Function

Same as Tridonic excel control gear, Hytronik builds this function inside the motion sensor to achieve tri-level control, for some areas require a light change notice before switch-off.

It offers 3 levels of light: 100%-->dimmed light (10%, 20%, 30%, 50% optional)-->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; selectable daylight threshold and choice of detection area.



With sufficient natural light, the light does not switch on when presence detected.



With insufficient natural light, the sensor switches on the light automatically when person enters the room.



People left, light dims to 10%/20%/30%/50% (optional) stand-by level after the hold-time.



Light switches off automatically after the stand-by period elapsed.



2 Zero-cross relay operation

Designed in the software, sensor switches on/off the load right at the zero-cross point, to ensure the in-rush current is minimised, enabling the maximum lifetime of the relay.

3 Loop-in and loop-out termina

Double L N terminal makes it easy for wire loop-in and loop out, and saves the cost of terminal block and assembly time.

4 Manual override

This sensor reserves the access of manual override function for end-users to switch on/off, or adjust the stand-by dimming level by push-switch, which makes the product more user-friendly and more options to fit for some extra-ordinary demands.

- * Short push (<1s): On/off;
 - $ON \rightarrow OFF$: The light turns off immediately and can not be lighten for a certain time (equals to hold-time preset) even movement is detected. After this period, the sensor goes to auto sensor mode.
 - OFF → ON: The light turns on 100% and goes to sensor mode, even when ambient LUX level exceeds the daylight threshold.
- * Long push (>1s): Dim up/down the stand-by dimming level between 10% and 50%.
- *If customers do not want to have this manual override function, just leave this "push" terminal alone and don't connect it to any wire.

Detection Pattern





Wall mounted detection pattern (m)

Settings

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

| | 1 | 2 | | |
|-----|---|---|-------|---|
| Ι | | | 100 % | Å |
| II | | 0 | 75% | μ |
| III | 0 | | 50% | |
| IV | 0 | 0 | 10% | 0 |

| - | 100% |
|---------------|------|
| $\parallel -$ | 75% |
| - | 50% |
| IV – | 10% |
| | |

2 Hold-time

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.



III – 1 min IV – 5min V – 10min VI – 20min VII – 30min

I – 5s

II – 30s

3 Daylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.



| I – Disable |
|-------------|
| II – 50Lux |
| III – 10Lux |
| IV – 2Lux |

Stand-by period (corridor function)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

Note: "Os" means on/off control; "+ ∞ " means bi-level dimming control, fixture never switches off.

Stand-by dimming level

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.



 $\begin{array}{l} II-1Os\\ III-1min\\ IV-5min\\ V-10min\\ VI-30min\\ VII-1h\\ VIII-+\infty \end{array}$

|- 10%

II - 20%

III – 30% IV – 50%

| - Os

| | 11 | 12 | | |
|-----|----|----|-----|---|
| Ι | | | 10% | • |
| II | | 0 | 20% | h |
| III | 0 | | 30% | Ŏ |
| IV | 0 | 0 | 50% | - |

| Technical Data | |
|------------------------|---|
| Operating voltage | 220-240VAC |
| Switched power | Max.800W (capacitive) |
| Stand-by power | <0.5W |
| Warming-up time | 20s |
| Detection area | 10/50/75/100%, can be customized |
| Hold-time | 5s/30s/1min/5min/10min/20min/30min, can be customized |
| Stand-by period | Os/10s/1min/5min/10min/30min/1H/+∞, can be customized |
| Stand-by dimming level | 10%/20%/30%/50%, can be customized |
| Daylight threshold | 2~50Lux daylight/twilight/darkness, can be customized |
| Microwave frequency | 5.8GHz+/-75MHz |
| Microwave power | <0.2mW |
| Detection range | Max. (ØxH): 12m x 3m |
| Detection angle | 30°~150° |
| Mounting height | 3 m |
| Operating temperature | -20°C ~ +60°C |
| IP rating | IP20 |
| Certificate | Semko, CB, EMC, CE, R&TTE, SAA |