

SAM8/RC11

HF Lowdbay | Tri-level dimming | RJ12 connector to control body

HYTRONIK[®]
SENSORS & LIGHTING CONTROL



Benefits

Compact: Standard rectangular Plug&Play sensor design

Innovative: Remote controller for quick RF channel pair

User-Friendly: With one-key commissioning with IR controller

Applications

For luminaire with a height of up to 6m

Classrooms

Offices

Check Out the Complete System Solution on the Website:
<https://www.hytronik.com/product/SAM8-RC11>



CE

RED

UK
CA

Product Description

SAM8/RC11 is a HF sensor head and compatible with the Tri-level Dimming. It can work with the linear shaped control base such as HCD038/P and HCD038. It offers powerful number of Plug'n'Play feature options to expand the flexibility of luminaires design.

Functions and Features

See additional details at the end of datasheet



Active Lux
Switching 24h
Daylight
Monitoring



One-key
Commissioning



Photocell
Advance



Tri-level Dimming

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Specifications

Sensor Data

Detection angle	30° - 150°
Max. Detection range (Diameter)	12.0 m
Maximum Mounting Height	6.0 m
Detection area	113 m ²

Electrical Data

Operating voltage range	5 VDC
Warming-up	20 s

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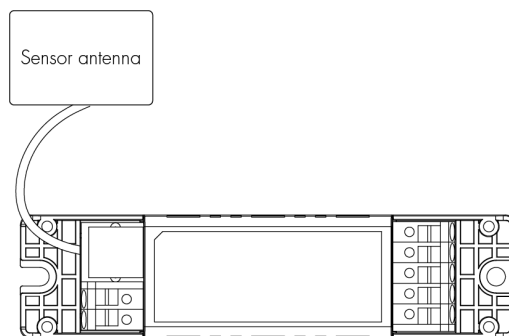
Specifications

Technical	
Product weight	30.0 g
Product height	16.0 mm
Product length	52.5 mm
Product width	31.2 mm
Ambient temperature	-20 ~ +50 °C
Storage temperature	-40 ~ +70 °C
Humidity max	10 ~ 90%
IP Rate	IP20

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Wiring Diagram

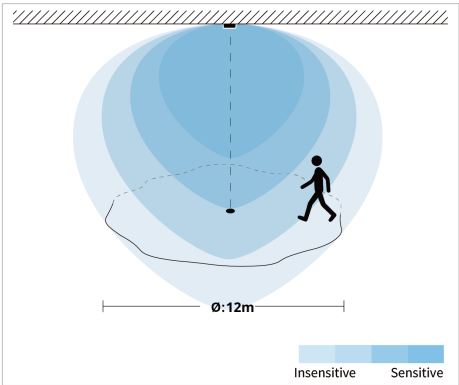


Detection Range

Single Person Walk (Ceiling mount)

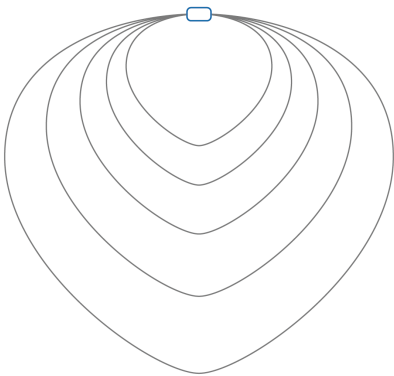
- The data below is tested under following conditions:
- Single person walking
 - Sensor not connected to any driver that may have soft-on period
 - Testing temperature Ta = 20°C

Detection example 6m mounting height:



Sensitivity	
H[m]	100%
	Ø[m]
6	12

Detection schematic diagram

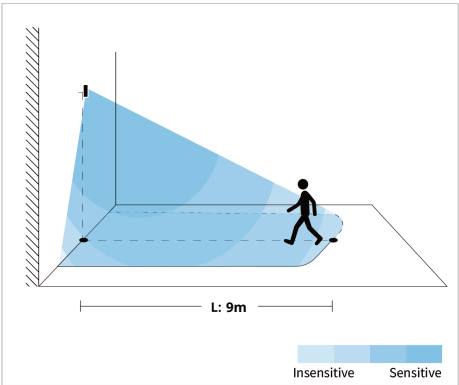


Detection Range

Single Person Walk (Wall mount)

- 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 Ta = 20°C

Detection example 4m mounting height:



	Sensitivity
H[m]	100%
	L[m]
4	9

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Commissioning Instructions and Precautions

A. Installation Notes

1. This product should be installed by a qualified electrician.

Warning: For additional important documents, including installation precautions, product guidelines, and guarantee conditions, please refer to the official downloads.

<https://hytronik.com/service/downloads>

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Options

Compatible products (for full functionality)



HC038V

Control unit | 1-10V | Attachable sensor heads
www.hytronik.com/product/HC038V



HRC-11

Sensor remote controller | Diverse function | White color
www.hytronik.com/product/HRC-11



HCD038

Control unit | DALI with PSU | Attachable sensor heads
www.hytronik.com/product/HCD038

Functions and Features



Active Lux Switching 24h Daylight Monitoring

This function continuously evaluates the ambient light level during operation to determine whether the luminaire should remain in stand-by mode or switch off. When the sensor transitions from hold-time to stand-by, and at intervals during the stand-by period, the photocell measures the surrounding daylight to decide whether to maintain dimmed light or turn the fixture off. This dynamic daylight evaluation helps prevent unnecessary energy use and reduces false activations in environments with fluctuating natural light.



One-key Commissioning

This feature allows commissioning to be completed with a single key operation on the remote controller. A predefined configuration sequence is executed automatically, enabling quick setup and reducing the time and effort required for on-site adjustments. One-key commissioning simplifies complex procedures and supports efficient, reliable deployment of lighting control systems.



Photocell Advance

This advanced daylight sensing function accurately measures ambient light levels while minimising interference from the luminaire itself, ensuring reliable dusk-to-dawn control and daylight priority over motion detection. It automatically switches lighting on and off and dynamically adjusts brightness in response to available natural light, delivering visual comfort and improved energy efficiency.



Tri-level Dimming

Hytronik's tri-level dimming products offer 3 levels of light control: 100% dimmed light off, with settable time periods between each phase, as well dimming level and daylight threshold.

*All Hytronik's tri-level dimming products can also be configured as bi-level control (by setting the stand-by period to infinity), so that the light always remains in the dimmed mode in absence for areas where there are safety, security or enhanced comfort requirements.

Check out for further explanation of features

<https://hytronik.com/solutions/lighting-control-features>