interact
by signify

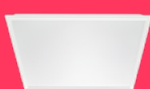# Interact Pro
in school applications

This is all you need for your smart lighting system

Philips Interact Ready products **+** Interact Pro app **+** Interact Pro web portal **+** Interact Pro gateway

interact ready.

iF DESIGN AWARD 2023

| Simple lighting control and automation | Recommended for advanced features |

Lighting is a simple but effective way to enrich students' learning experiences while contributing to a pleasant working environment for teachers and staff. Philips Interact Ready luminaires can help increase classroom comfort, adapt to different daytime activities, and help stimulate and engage pupils to achieve better learning results.

Install the Interact Pro smart lighting system to support:

Sustainability
- Save energy through demand-optimized lighting
- Avoid material waste with wireless and circular lighting

Student and staff health and well-being
- Create a customizable learning environment with scene setting
- Higher staff satisfaction with personalized control options
- Enhance a feeling of well-being of students and staff with personalized lighting recipes

Smart and safe learning environment
- Create safe, well-lit spaces for students and staff
- Support student performance with lighting for well-being
- Use scene scheduling to match the learning task and save energy at the same time

School lighting design insights

Glare
Use low-glare luminaires for comfort and to improve the experience of both students and teachers.

Controls
Locate sensors directly above desks to optimize presence detection. Lights respond instantly when sensors detect movement.

Brightness
Ensure the right level of light on student desks. EN12464-1 requires 500 lux for classrooms.

Board
Smartboards and projectors require less light than the rest of the classroom. To still have enough light throughout the room, install separate luminaires and controls.
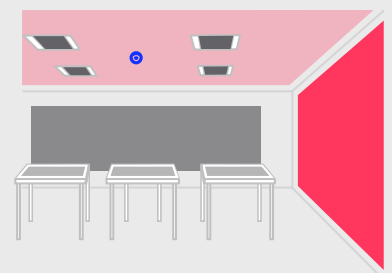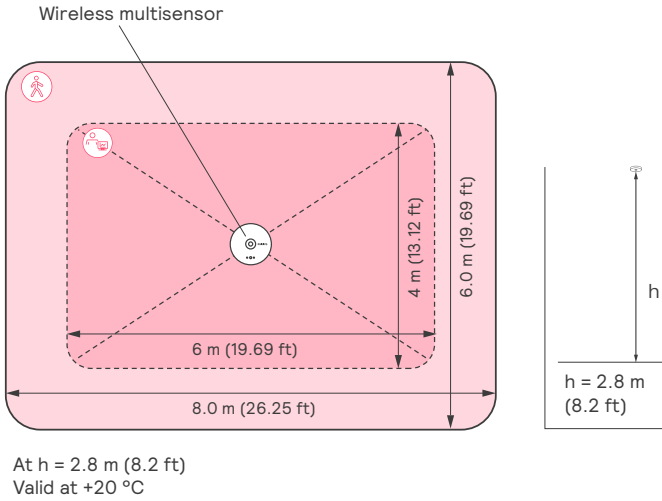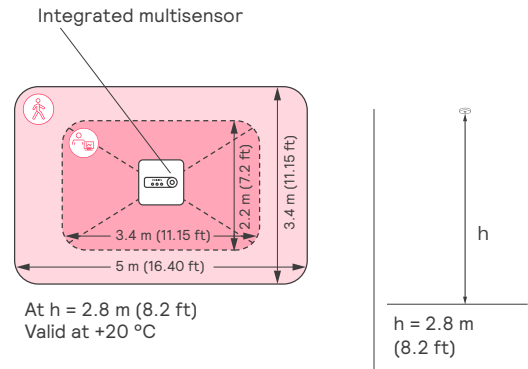
Sensor installation guidance

Easily enhance your smart lighting system with the Interact Ready external or luminaire-integrated wireless sensors. They trigger automatic responses to turn on, turn off or dim the lights according to occupancy detection and daylight variation. The result? Great energy savings and more control flexibility.

Motion detection area

With standalone wireless multisensor

Wireless multisensor

4 m (13.12 ft)
6.0 m (19.69 ft)
6 m (19.69 ft)
8.0 m (26.25 ft)

h
h = 2.8 m (8.2 ft)

At h = 2.8 m (8.2 ft)
Valid at +20 °C

With multisensor integrated in luminaire

Integrated multisensor

2.2 m (7.2 ft)
3.4 m (11.15 ft)
3.4 m (11.15 ft)
5 m (16.40 ft)

h
h = 2.8 m (8.2 ft)

At h = 2.8 m (8.2 ft)
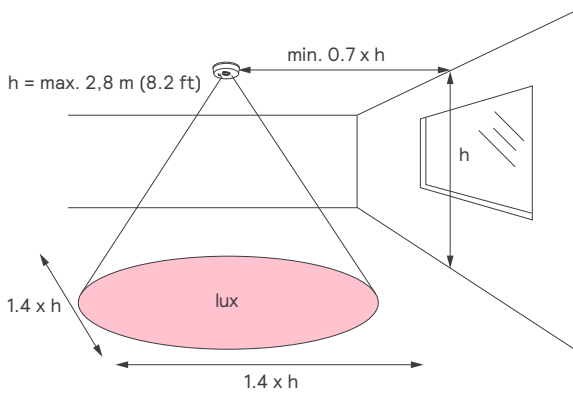Valid at +20 °C

Minor movement

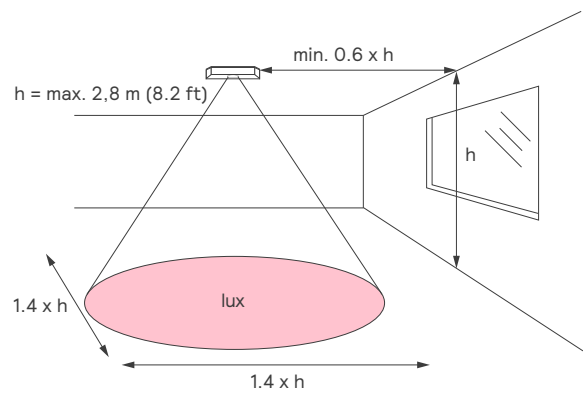Major movement

Typical classroom height: 2.8 m

Make sure you take the rectangular motion detection area into account when determining your sensor layout.

Daylight detection area

With standalone wireless multisensor

h = max. 2,8 m (8.2 ft)

min. 0.7 x h

h

1.4 x h

lux

1.4 x h

With multisensor integrated in luminaire

h = max. 2,8 m (8.2 ft)
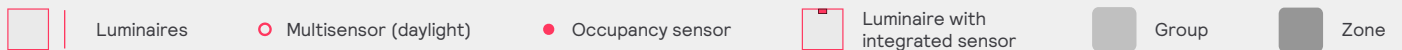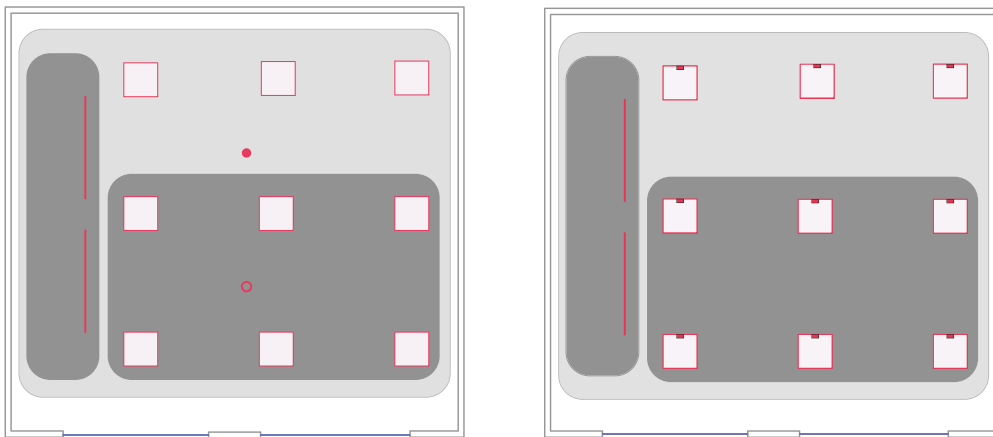
min. 0.6 x h

h

1.4 x h

lux

1.4 x h

Installation guidance

Groups and zones

After installing and connecting all luminaires and controls to the Interact Pro app, you have the ability to group them together. A group consists of either zones or standalone lights. Zones enable you to control a set of luminaires as one entity, allowing them to dim or light up at the same time. You can assign luminaires to either groups or zones.
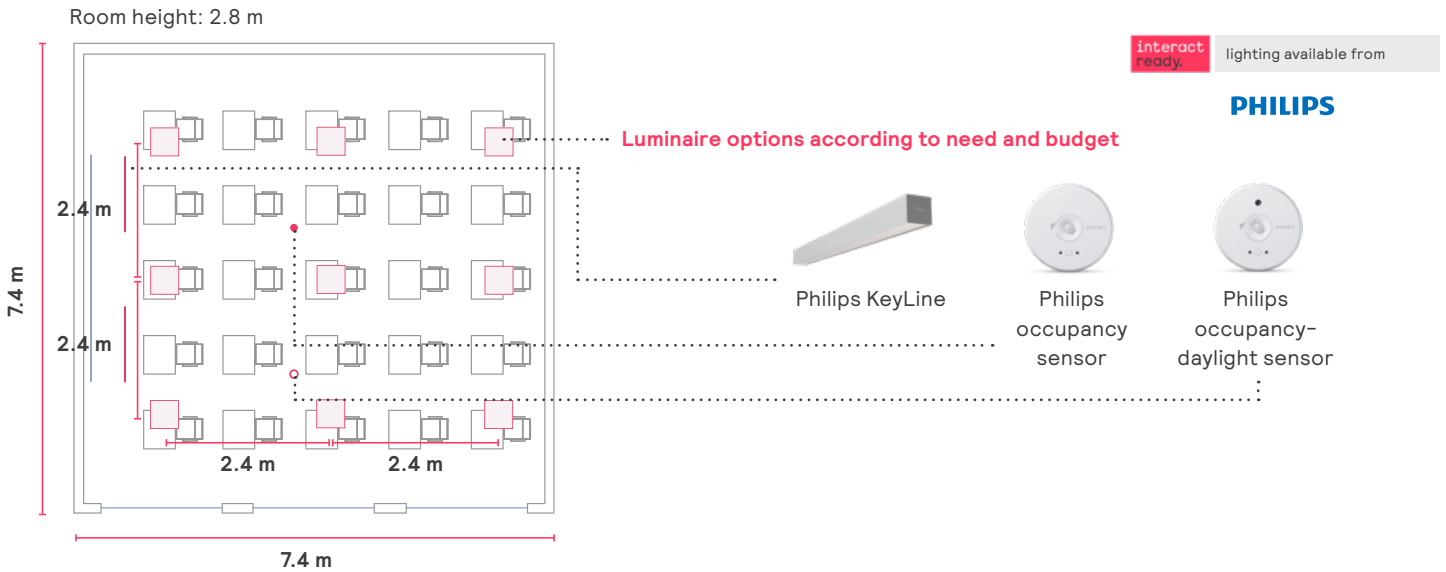
Each SNS-based luminaire has an integrated occupancy sensor that can trigger the group. Daylight regulation can be done on the basis of the individual luminaires. Additionally, each group can be activated by a maximum of 5 ZigBee Green Power sensors per group and 30 per network. Standalone lights and zones can be controlled individually to create scenes. Each zone can automatically adjust according to the amount of daylight, with sensors reacting to the light entering the classroom. Multisensors can also detect both movement and daylight.

Unlock more value with the Interact Pro gateway, including energy reporting, remote diagnostics, scene scheduling, off-site control, personal app control for lights and over-the-air upgrades.

| Luminaires | Multisensor (daylight) | Occupancy sensor | Luminaire with integrated sensor | Group | Zone |

Installation guidance

Classroom floorplan with a typical luminaire arrangement.[1]

Room height: 2.8 m

7.4 m

2.4 m

2.4 m

2.4 m   2.4 m

7.4 m

interact ready.   lighting available from

PHILIPS

Luminaire options according to need and budget

Philips KeyLine

Philips occupancy sensor

Philips occupancy-daylight sensor

Option 1: Easy to install solution with good efficiency

Budget: €○○

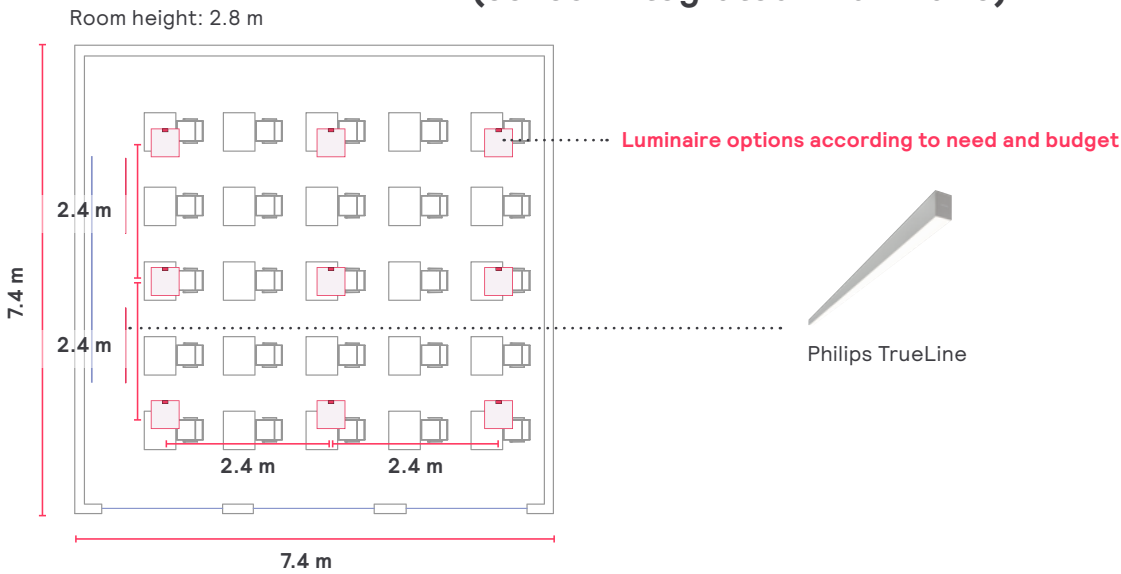| Product name	Quantity	Order code
Philips CoreLine panel RC132V G5 36S/840 WIA W60L60 OC	9	911401858084
Philips KeyLine SM350C 40S/840 WIA A PCS L1200 WH	2	available on request (via ETO)
Philips OCC 0100A/02 BP Sensor WH	1	913701067003
Philips OCC 0101A/02 DL BP Sensor WH	1	913701067103
Optional		
Philips Switch Dim 4B (UID8480/10)	1	913701055803

Option 2: High efficiency and ultra slim design

Budget: €€○

Product name	Quantity	Order code
CoreLine recessed RC136B 43S/840 WIA W60L60 OC	9	911401896781
Philips KeyLine SM350C 40S/840 WIA A PCS L1200 WH	2	available on request (via ETO)
Philips OCC 0100A/02 BP Sensor WH	1	913701067003
Philips OCC 0101A/02 DL BP Sensor WH	1	913701067103
Optional		
Philips Switch Dim 4B (UID8480/10)	2	913701055803

Option 3: Ultimate flexibility with a minimalistic look

Budget: €€€

Product name	Quantity	Order code
Philips KeyLine SM350C 40S/840 WIA PCS L1200 WH	9	910925868366
Philips KeyLine SM350C 40S/840 WIA A PCS L1200 WH	2	available on request (via ETO)
Philips OCC 0100A/02 BP Sensor WH	1	913701067003
Philips OCC 0101A/02 DL BP Sensor WH	1	913701067103
Optional		
Philips Switch Dim 4B (UID8480/10)	2	913701055803

[1]This meets the minimum norm requirements for classroom lighting

Installation guidance

Classroom floorplan with a typical luminaire arrangement (sensor integrated in luminaire)[1]

Room height: 2.8 m

7.4 m

2.4 m

2.4 m

2.4 m

2.4 m 2.4 m

7.4 m

lighting available from

PHILIPS

Luminaire options according to need and budget

Philips TrueLine

Option 1: Easy to install solution with good efficiency
Budget: €◯◯◯

Product name	Quantity	Order code
Philips CoreLine panel RC132V G5 43S/840 SIA W60L60 OC IA4	9	910505102377
Philips TrueLine SP530P LED40S/940 SRD A U4 L1170ALU	2	available on request (via ETO)
Optional		
Philips Switch Dim 4B (UID8480/10)	2	913701055803

Option 2: High-quality, sustainable choice[2]
Budget: €€◯◯

Product name	Quantity	Order code
Philips SlimBlend panel RC330V 42S/940 SIA W60L60 IA5 OC	9	910505102432
Philips TrueLine SP530P LED40S/940 SRD A U4 L1170ALU	2	available on request (via ETO)
Optional		
Philips Switch Dim 4B (UID8480/10)	2	913701055803

Option 3: Ultimate flexibility and super high efficiency
Budget: €€€◯

Product name	Quantity	Order code
Philips TrueLine SP530P LED40S/940 SRD U4 L1170ALU	9	910505103237
Philips TrueLine SP530P LED40S/940 SRD A U4 L1170ALU	2	available on request (via ETO)
Optional		
Philips Switch Dim 4B (UID8480/10)	2	913701055803

Option 4: Tunable white-enabled lighting for well-being
Budget: €€€€

Product name	Quantity	Order code
Philips PowerBalance Tunable White RC461B LED80S/TW9 SIA W60L60 VPC U4 PIP	9	910505103383
Philips TrueLine SP530P LED40S/940 SRD A U4 L1170ALU	2	available on request (via ETO)
Optional		
Philips Switch Dim 4B (UID8480/10)	2	913701055803

Tunable white

Tunable white luminaires can easily change LED intensities and correlated color temperature (CCT) to mimic natural daylight patterns for optimal visual comfort.

Interact Pro allows you to set the default color temperature of luminaires and create scenes with a specific color temperature at group level. Luminaires automatically output the defined light level and color temperature when switched on.

[1] This meets the minimum norm requirements for classroom lighting

[2] Thanks to the recyclability and repairability of the product

Interact Pro for outdoor applications New

Extend your smart lighting to the building perimeter and outdoor parking spaces

The new Philips outdoor parking sensor attaches seamlessly to a wide range of Philips luminaires with a Zhaga book 18 bottom socket to quickly extend your smart lighting system from the inside to the outside. This setup requires no additional wiring as the SR(D4i) driver for Philips luminaires provides auxiliary power to the sensor.

Philips outdoor parking sensor

- Motion and daylight sensing for greater energy savings and increased safety
- Daylight switching automatically turns off lights when daylight is sufficient
- Fits with existing luminaire families via a Zhaga book 18 socket (requires a Zhaga socket in the luminaire and an SR(D4i) driver for Philips luminaires)
- Easy "twist and lock" installation
- IP66 rating
- Available in black and white

High- and lowbay compatible

The sensor is available in two versions, covering installation heights from 4.6m to 12.2m for greatest flexibility.

Highbay mounted

12.2m

15.2 m

Sensor coverage

Lowbay mounted

4.6m

7.3 m

Sensor coverage
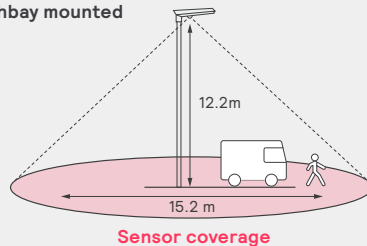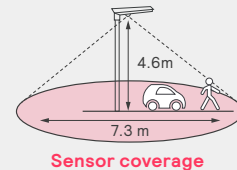
Perimeter area around a building with a typical luminaire arrangement

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PHILIPS

Sidewalk

16 m

50 m

27.5 m

55 m
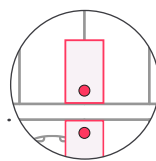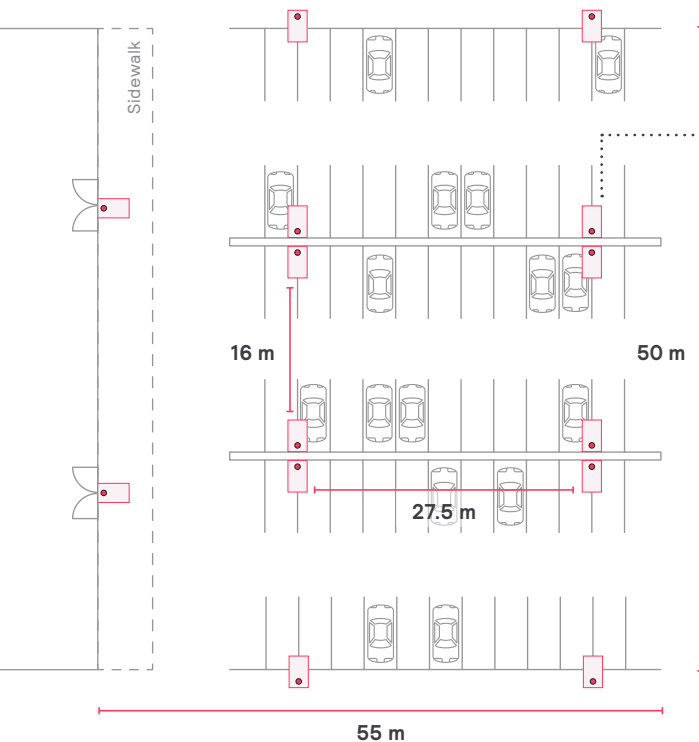
Luminaire according to need and budget with sensor attached

Exemplary luminaire pairing

Budget: €€○

Product name	Quantity	Order code
Philips Luma gen2 medium BGP704 T25 LED110-4S/740 PSD-SR DW50 FG	4	available via configuration
Philips Luma gen2 medium BGP704 T25 LED75-4S/740 PSD-SR DW50 FG	8	available via configuration
Philips Luma gen2 micro BGP702 T25 LED12-4S/740 PSD-SR DW50 FG	2	available via configuration
Philips outdoor parking sensor, black LCN4120/15 lowbay	2	913701063313
Philips outdoor parking sensor, black LCN4150/15 highbay	12	913701063413

Other possible pairings with Philips luminaires with a Zhaga book 18 bottom socket: Lumistreet gen2, Digistreet, Iridium gen4, Clearway gen2, Urbanflex, Milewide

Product overview

Below is a selection of Philips Interact Ready products that are suitable for a school environment. All lighting complies with the new European norm EN12464-2021 in the given luminaire arrangement.

Recessed
Surface-mounted and suspended

PowerBalance *	SlimBlend *	TrueLine *	FlexBlend *	CoreLine recessed	TrueLine *	SlimBlend *

Panel

FlexBlend *	KeyLine	CoreLine surface-mounted	MyCreation Accent cylinder **3D**	MyCreation Grand **3D**	CoreLine panel	CoreLine panel *

Wall-mounted   Downlight

CoreLine wall-mounted	LuxSpace	GreenSpace	MyCreation GreenSpace PerfectFit **3D**	MyCreation GreenSpace PerfectFit *** 3D**	MyCreation Drum **3D**	CoreLine downlight

Recessed spot   Wireless external battery sensor   Mains powered external sensors

CoreLine slim downlight	LuxSpace Accent	GreenSpace Accent	CoreLine recessed spot	OCC0100A/02 BP Sensor WH	OCC0101A/02 DL BP Sensor WH	**Coming soon**

New Outdoor parking sensor   Wireless switch   Gateway   Other

LCN4120/05 LCN4150/05	LCN4120/15 LCN4150/15	Switch Dim 2B (UID8470/10)	Switch Dim 4B (UID8480/10)	Interact Pro wireless gateway	Interact Ready RF DALI Connector	DALI Extender

Exemplary outdoor luminaires with downward-facing socket compatible with the Philips outdoor parking sensor

Luma Gen 2	Milewide

Tip: Common abbreviations in our product type designations

U4 = Office sensor, with upgradable sensor slot
H4 = Highbay sensor

WIA = Wireless driver, Interact Ready
IA4 = Office sensor

* Luminaires with integrated sensor   3D = 3D printed luminaires   For a complete product overview visit **Philips.com/interact-ready**

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