ONE A

STORM MEDIUM MOTION

datasheet

Project: ONE A Showroom | Lighting design: ONE A

The STORM SYSTEM® collection is carefully designed to flush the surface of any ceiling or wall, and all products will appear with an absolute minimum of tolerance and visibility.

Storm Medium Motion is a fixture which in combination with a Motion Kit will provide a motion detector. Available sensors; KNX

Storm Medium Motion is a motion sensor that consists of two components:

1. A fixture ring from the STORM SYSTEM® collection – 1A01.0201.xx
2. A Motion kit sensor with optional accessories – 1AK.0201.xxyy

select a motion kit and optionally an accessory from the list below

ADDITIONAL REQUIREMENTS: (not included)

Installation rings – choose one of the installation rings below

- Storm Medium Plaster Ring – 1A01.0001.01
- Storm Medium Acoustic Adaptor – 1A01.0091.00
- Storm Medium Trim Ring – 1A01.0003.xx
- Storm Medium Back-Mounted Ring – 1A01.0048.xxz
- Storm Medium Back 007 Ring – 1A01.0047.04
- Storm Medium Concrete Cabinet A|B|C – 1A01.008X.xx
- Storm Medium Concrete Halo-X BMR – 1A01.0055.xx n/a North America
- Storm Medium Extension S150 – 1A01.0017.xx
- Storm Medium Extension S350 – 1A01.0035.xx

MOTION DETECTORS – 1AK.0201.xxyy

Master units

Motion Kit KNX Multi Master Sensor ›
– 1AK.0201.xx20

Slave units – Optional (only functional in combination with KNX Master unit)

Motion Kit Slave Sensor CO2 + Temperature ›
- 1AK.0201.xx22

NOTE

Both Master AND Slave units require a fixture ring (1A01.0201.xx)

GENERAL DATA

Collection
STORM SYSTEM®

Product
Storm Medium Motion

Article no.
1A01.0201.xx

XX – Colour codes

01 – White

92 – Black Pearl

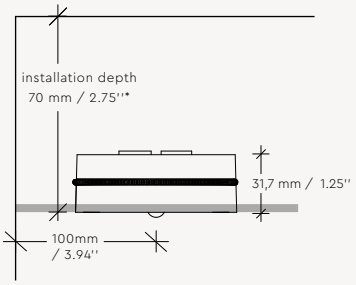
SPECIFICATIONS

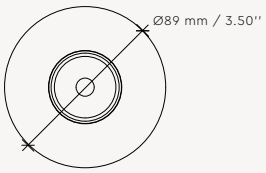
Weight
250 g / 8.8 oz

Material
Aluminium and Polycarbonate

IP protection grade
IP20

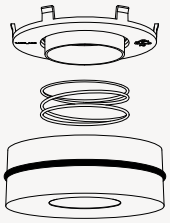
Labelling
CE





*The installation depth may vary if Storm Medium Cabinet is chosen, please review datasheet for installation depth

last updated 14 – 08 – 2024

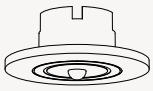


components

- Storm Medium Motion
  - Retaining disk
  - Spring

Sold separately

- Motion Kit



PLEASE NOTE:

If the spring on the fixture is damaged, do not proceed installation – contact your dealer

IMPORTANT INFORMATION

Installation and mounting must be performed by a qualified personel only, and instructions must be followed. Always make sure the main power is off during installation.

CLEANING AND MAINTENANCE:

Vacuum cleaning is recommended once a week

WARRANTY:

If the product is defect, please contact your supplier immediately. Please note that warranty will not apply in case of wrongful use or if unskilled personnel attempts to repair.

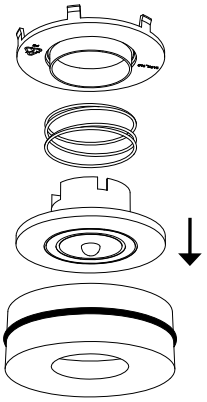
The crossed-out wheeled bin symbol indicates that the item should be disposed of separately from household waste. The item should be handed in for recycling in accordance with local environmental regulations for waste disposal

For more information, please contact info@onea.dk

ASSEMBLY INSTRUCTION

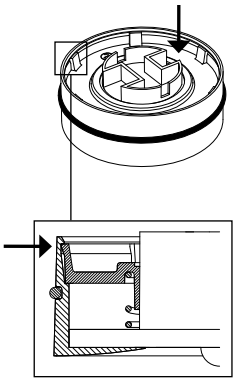
STEP 1

Place the chosen Motion Kit in the fixture ring. Place the spring and retaining disk over the Motion Kit



STEP 2

Gently press the retaining disk down until it snaps into place

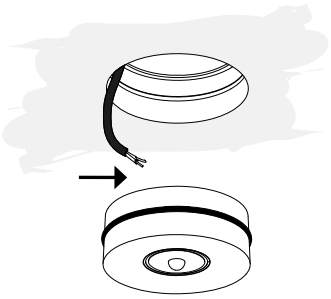


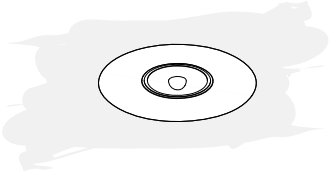
STEP 3

Connect the supply cable.

Mount the fixture into the plaster ring/ back-mounted ring.
Do this by slightly rotating the fixture into the plaster ring/back-mounted ring.

NOTE: When rotating the fixture choose the direction with the least resistance.

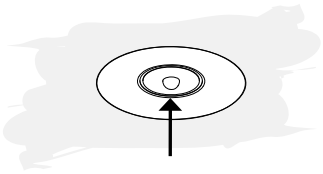




DISASSEMBLY INSTRUCTION

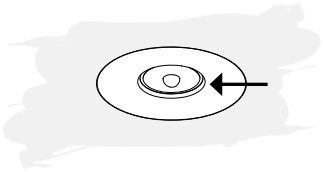
STEP 1

Lightly push in the center, thereby creating space to take hold of the fixture.



STEP 2

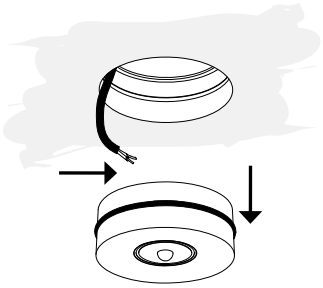
Take hold of the fixture.



STEP 3

Pull down gently, whilst slightly rotating. Disconnect the cables.

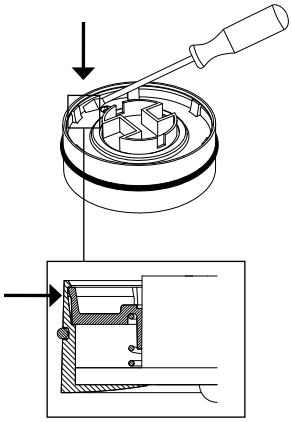
NOTE: When rotating the fixture choose the direction with the least resistance.

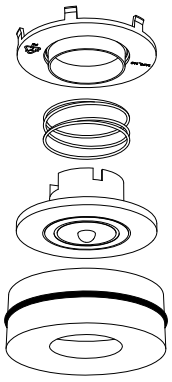


TO REMOVE OR CHANGE MOTION KIT

STEP 1

Use a screwdriver or similar object to gently prise the taps on the retaining disk out from under the ridge on the fixture.





IMPORTANT INFORMATION

Installation and mounting must be performed by a qualified personel only, and instructions must be followed. Always make sure the main power is off during installation.

CLEANING AND MAINTENANCE:

Vacuum cleaning is recommended once a week

WARRANTY:

If the product is defect, please contact your supplier immediately. Please note that warranty will not apply in case of wrongful use or if unskilled personnel attempts to repair.

The crossed-out wheeled bin symbol indicates that the item should be disposed of separately from household waste. The item should be handed in for recycling in accordance with local environmental regulations for waste disposal

For more information, please contact info@onea.dk

GENERAL DATA

Product

Motion Kit
KNX Multi Master Sensor

Article no.

1AK.0201.xx20

SPECIFICATIONS

Weight

approx. 120g / 4.23 oz

Dimenisions

81 × 37 mm (d x h)
3.2'' x 1.45'' (d x h)

Material (case)

(PC-ABS)

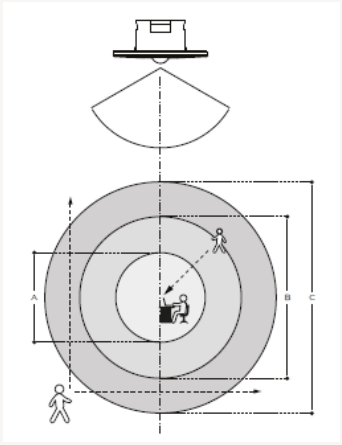
IP protection grade

IP20

XX – Colour codes

01 – White

92 – Black Pearl



A – person working at the desk
B – person moving towards the sensor
C – person moving sideways with respect to the sensor

h	A	B	C
2.5 m / 8.2 ft	3.8 m / 12.5 ft	4.5 m / 14.8 ft	6.4 m / 21 ft
3.0 m / 9.8 ft	4.0 m / 13.1 ft	5.0 m / 16.4 ft	7.0 m / 23 ft
3.5 m / 11.5 ft	5.0 m / 16.4 ft	6.0 m / 19.7 ft	8.6 m / 28.2 ft
4.0 m / 13.1 ft	6.0 m / 19.7 ft	7.2 m / 23.6 ft	9.2 m / 30.2 ft

PRODUCT INFORMATION

KNX presence detector MULTIsensor – light control, temperature, humidity and sound sensor.

The KNX MULTI SENSOR is suitable for ceiling mounting, manages the detection and includes a brightness sensor for environmental lighting control. The device also includes includes humidity and temperature sensors with the relative control algorithms and a sound sensor that can be used in rooms with parts not totally visible to the infrared sensor. The KNX MULTI SENSOR has a rear connector with 3 digital inputs that can be connected to buttons or switches free of potential and used for on / off commands, dimming, shutters or blinds / scenarios, sequences, step commands, etc. One of the 3 inputs can be configured as analogue for the connection of NTC temperature probes with which to send the temperature measurement on the bus or manage a complete thermostat module. The thermostat manages 2 stages with an integrated PI controller for controlling heating and cooling equipment, valves, 2 and 4-pipe fan coils, etc. The humidity sensor (MULTI SENSOR version) manages the measurement of the ambient relative humidity and allows the control with thresholds and ysteresis of humidification and dehumidification equipments. Presence detection, based on a passive infrared sensor, has 5 independently configurable channels with different functions that can be activated. Moreover, 12 logic blocks are available to implement simple expressions with logical or threshold operator or complex expressions with algebraic and conditional operators; It's possible to use predefined algorithms as proportional controls of temperature and humidity or dew point calculation. The device also integrates the "Virtual Holder Logic"; the field of application is the hotel room: through a magnetic sensor installed on the door and connected to a digital input (also to the sensor itself), accurate presence information is managed. The presence detection solution can deduce the presence of people in the room using one or more dedicated sensors. It also detects an unexpected presence and is able to differentiate more behaviors. The device manages the ambient lighting based on the measured illuminance; it is also possible to enable the logic called "Circadian Rhythm" with which brightness and color temperature are imposed on the basis of predefined curves or on the basis of the real position of the sun during the day with respect to a terrestrial coordinate. This function allows you to recreate lighting comfort in an environment as close as possible to reality.

TECHNICAL DATA

Power supply

via bus EIB/KNX cable	2 1 ÷ 32V DC
Current consumption	≤ 10mA

Connections

Cabled connector 6 poles with AWG 24 wires length 100 mm
EIB/KNX connector

Input – digital mode

For free potential contacts	(dry contacts)
Max. length of Cables	≤ 30 m (twisted)
Voltage Scanning	3,3V DC

Input – analog mode for temperature probe

For NTC temperature probe electron code

TS01A01ACC	(range from -20°C to + 100°C)
TS01B01ACC	(range from -50°C to + 60°C)
Max. length of Cable	≤ 30 m (twisted cable)

Lighting sensor (Standard – multi – space version)

Range	50 ÷ 20000 LUX

Temerature sensor (multi – space version)

Range	-5°C + 45°C
Resolution	0.1°C
Tolerance typ. (max)	± 2°C

Humidity sensor (multi – space version)

Range	0 ÷ 100 %RH
Resolution	0.1 %RH
Tolerance typ. (max)	± 2 %RH (± 3 %RH)

Electrical safety

Degree of safety	IP20 (EN 60529)
Bus safety	21 ÷ 32V DC (extra low voltage)
Reference standards	EN 50491-3

Electromagnetic compatibility

Reference standards	EN 50491-5-1 / EN 50491-5-2

Compliant with electromagnetic compatibility directive 2014/30/EU

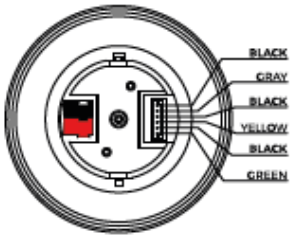
Environmental specification

Reference standards	EN 50491-2
Operation temperature	-5°C + 45°C
Storage temperature	-20°C + 55°C
Relative humidity (not condensing)	max. 90%
Installation environment	indoor

WARNING

Device must be installaed keeping a minimum distance of 4 mm between electrial power line (i.e. mains) and input cables or red / black bus cable

Wiring diagram for rear inputs



input 1	digital	green
input 2	digital	yellow
input 3	analog/digital	grey
COM	com for all inputs	black

back

GENERAL DATA

Product

Motion Kit
KNX Slave Sensor CO2 + temperature

Article no.

1AK.0201.xx22

XX – Colour codes

01 – White

92 – Black Pearl

PRODUCT INFORMATION

A Slave Sensor must be combined with a Master Sensor.

This plug-in accessory includes a temperature sensor (range from -5°C to + 50°C) and a CO_2 sensor

CO_2 SENSOR

Range	360 + 5000ppm
Accuracy	± (50 ppm + 3%)

FRONT LED BEHAVIOR

The front LED can be set to visually indicate the CO_2 concentration.
There are 4 modes:

MODE 1 (default)

LED off	CO_2 ≤ 700 ppm
LED blink (low)	701 < CO_2 ≤ 1200ppm
LED blink (fast)	1201 < CO_2 ≤ 2500 ppm
LED steady on	≥ 2501 ppm

MODE 2

LED blink very slow (1 blink every 20 s)	CO_2 ≤ 700 ppm
LED blink 1 (low)	701 < CO_2 ≤ 1200ppm
LED blink 2 (fast)	1201 < CO_2 ≤ 2500 ppm
LED steady on	≥ 2501 ppm

MODE 3

LED blink very slow
(1 blink every 20 s) regardless CO_2 concentration

MODE 4

LED always off regardless CO_2 concentration

LED BEHAVIOUR PROGRAMMING

Current mode visualization
A short press of the button enters the display status of the current mode

- 1 blink: mode 1
- 2 blinks: mode 2
- 3 blinks: mode 3
- 4 blinks: mode 4

MODE PROGRAMMING

By pressing the button for 5 seconds, you enter the programming procedure of the LED behaviour.

The LED flashes a number of blink corresponding ti the set mode. A short press of the button is required to set the mode (loop until you obtain the number of blinks corresponding to the desired on).

After 20 seconds from the last press of the button, the device exits the programming procedure by storing the selected mode.

WARNING

Device must be installaed keeping a minimum distance of 4 mm between electrial power line (i.e. mains) and input cables or red / black bus cable

WIRING DIAGRAM