Features

Movement detector

- Extensive sensing area up to 120m²
- Two sensing areas (type 18.51): "presence" suitable for zones of low activity, and "movement" suitable for transit areas or zones of high activity
- Modern design
- Quick installation thanks to push-in terminals
- 1 NO contact 10 A, with "zero crossing" switching
- Wall mounting compatible with 60 mm box and 502 box

18.41/18.51/18.61
Push-in terminal

NEW 18.41

- Applications: hotel and office corridors, transit areas
- Sensing area 30 meters length and 4 meters width

NEW 18.51

- Applications: offices, schools, zones of low activity
- Two sensing areas: "presence" and "movement"
- Sensing area 360°

NEW 18.61

- Specific product for wall mounting
- Wide angle: 180°

For outline drawings see page 5

Contact specification				
Number of contacts		1 NO (SPST-NO)	1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	10 / 20 (100 A 5 ms)	10 / 20 (100 A 5 ms)	10 / 20 (100 A 5 ms)
Rated voltage/Maximum switching voltage	V AC	250 / 400	250 / 400	250 / 400
Rated load AC1	VA	2,500	2,500	2,500
Rated load AC15	VA	450	450	450
Nominal lamp rating: 230V incandescent/halogen	W	1,000	1,000	1,000
fluorescent tubes with electronic ballast	W	500	500	500
fluorescent tubes with electromechanical ballast	W	350	350	350
CFL	W	300	300	300
230V LED	W	300	300	300
LV halogen or LED with electronic ballast	W	300	300	300
LV halogen or LED with electromechanical ballast	W	500	500	500
Standard contact material		$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
Supply specification				
Coil specification	V AC (50/60 Hz)	110...230	110...230	110...230
Rated power	VA (50 Hz)/ W	1.5 / 1	1.5 / 1	1.5 / 1
Operating range	V AC (50/60 Hz)	96...253	96...253	96...253
Technical data				
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$	$100 \cdot 10^3$
Ambient light intervention threshold	lx	1...500	1...500	1...500
Light on time after last detection		12 s...35 min	12 s...35 min	12 s...35 min
Sensing area diameter		See diagram page 4	See diagram page 4	See diagram page 4
Ambient temperature range	°C	–10...+50	–10...+50	–10...+50
Protection category		IP 40	IP 40	IP 40
Approvals (according to type)		CE		

18 Series - Movement and presence detector 10 A

Ordering information

Example: 18 series, movement detector for corridors, recessed or surface mounting, 1 NO (SPST-NO) 10 A contact, 110...230 V AC supply.

1 8	.	5	1	.	8	.	2 3 0	.	0	3	0	0

Series

Type
4 = Movement detector for corridors
5 = Movement and presence detector
6 = Movement detector wall mounting

No. of poles
1 = Single pole switching 1 NO (SPST-NO), 10 A

Contact circuit
3 = Volt-free output contact

Supply voltage
230 = 110...230 V

Supply version
8 = AC (50/60Hz)

Codes
18.41.8.230.0300
18.51.8.230.0300
18.61.8.230.0300

Technical data

EMC specifications				
Type of test			**Reference standard**	
Electrostatic discharge		contact discharge	EN 61000-4-2	4 kV
		air discharge	EN 61000-4-2	8 kV
Radiated electromagnetic field (80 ... 2,000 MHz)			EN 61000-4-3	3 V/m
Fast transients (burst 5/50 ns, 5 and 100 kHz)		on supply terminals	EN 61000-4-4	1 kV
Voltage pulses on supply terminals (surge 1.2/50 µs)		common mode	EN 61000-4-5	4 kV
		differential mode	EN 61000-4-5	4 kV
Radiofrequency common mode voltage (0.15...230 MHz)		on supply terminals	EN 61000-4-6	3 V
Voltage dips		70 % U_N , 40 % U_N	EN 61000-4-11	10 cycles
Short interruptions			EN 61000-4-11	10 cycles
Radiofrequency conducted emissions		0.15...30 MHz	EN 55014	class B
Radiated emissions		30...1,000 MHz	EN 55014	class B
Terminals			**solid cable**	**stranded cable**
Type			push-in (see pag. 3)	
Max. wire size		mm^2	2.5	2.5
		AWG	14	14
Wire strip length		mm	8	
Other data				
Power lost to the environment		without output current W	0.3	
		with rated output current W	1.4	

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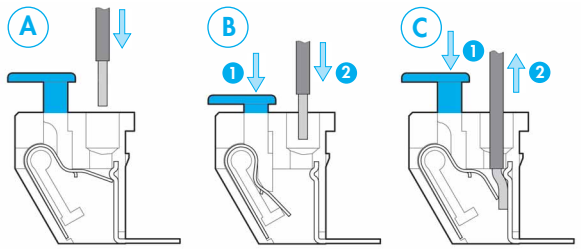
Main features

Push-in terminals

The push-in terminals permit the quick connection of solid wires or ferrules by their simple insertion into the terminal (A).
It is possible to open the terminal to extract the wire by first pushing down on the push-button using a screwdriver or fingers (C).
For stranded cable it is necessary first to open the terminal using the push button, both for the extraction (C) and insertion (B).



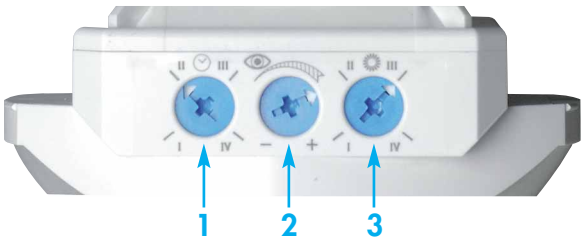
Double terminals for the easy "looping" between multiple 18 Series.
The Max. wire size for each terminal is 2.5 mm^2.

The terminals are equipped with a test hole to take a test probe.

Settings

The **ambient light intervention threshold** can be set from the lowest value (about 1 lx) to the optimal value for offices and working area (about 500lx), with the possibility to exclude totally the intervention of the light sensor (set to ∞ lx).
To optimize energy saving, it is suggested to set the intervention threshold after consideration of the minimum natural light levels appropriate to the safety and comfort of the application.

Lux (3):
I. Min. level (about 1 lx)
II. Transit area (> 10 lux)
III. Offices – work area (about 500 lx)
IV. Always ON (∞ lx)



The **sensitivity control (2)** is pre-set at maximum sensitivity, and this will be suitable for most applications. Setting a lower level of sensitivity will have the effect of reducing the sensing area and ignoring smaller movements - which might be necessary depending on the application.

The light on time (1) following last detection can be regulated between 12 seconds to 35 minutes.
Time:
I. 12 seconds
II. 3 minutes
III. 15 minutes
IV. 35 minutes

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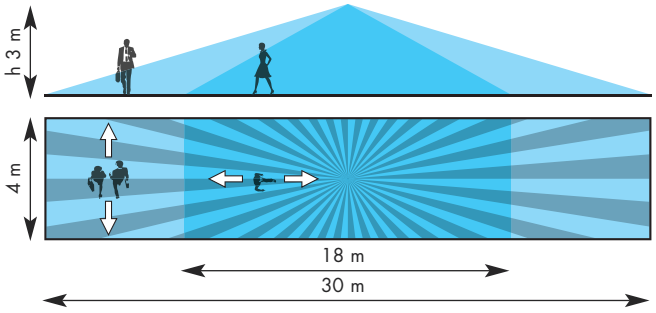
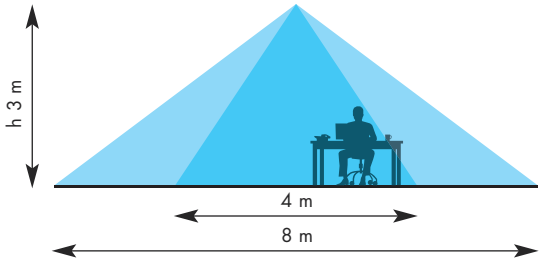
18 Series - Movement and presence detector 10 A

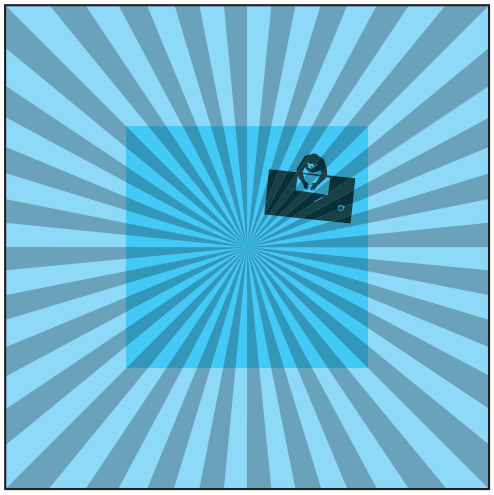
Sensing area

Type 18.41

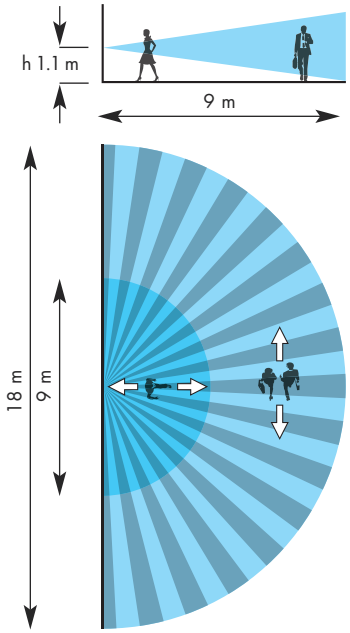


Type 18.51



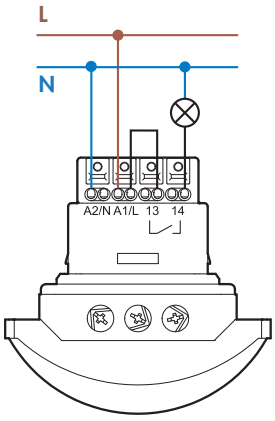


Type 18.61

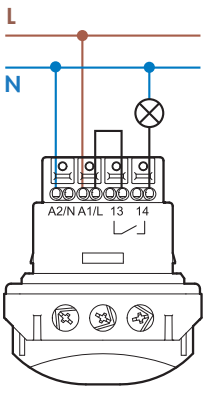


Wiring diagram

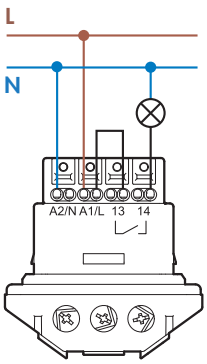
Type 18.41



Type 18.51



Type 18.61



The nominal lamp rating as stated in the contact specification applies when wiring is realized in accordance with the diagrams above.
If the load is powered from a phase different to that powering the Movement detector, then a 50 % reduction in the lamp rating must be considered.

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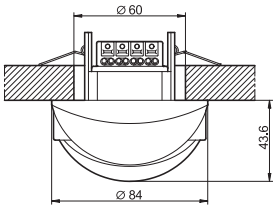
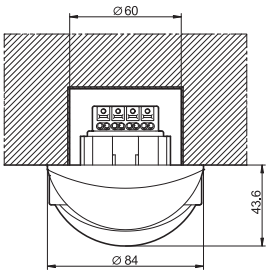
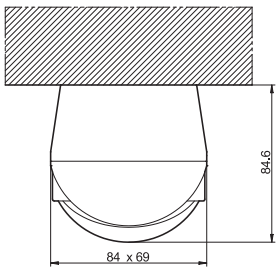
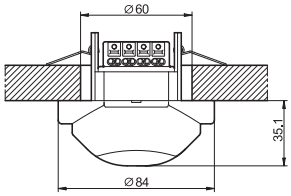
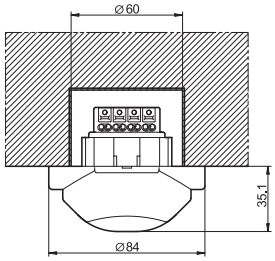
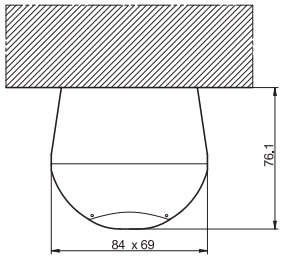
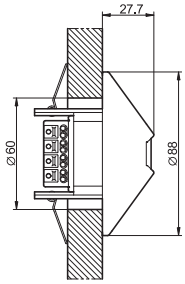
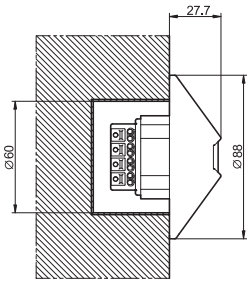
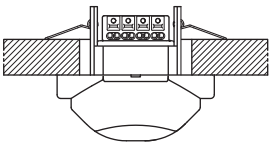
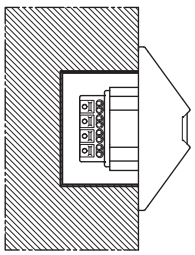
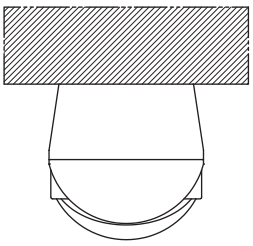
18 Series - Movement and presence detector 10 A

Outline drawings

Type	Suspended ceiling mounting	Recess mounting	Surface mounting
18.41			
18.51			
18.61			

Accessories

Type	Suspended ceiling mounting	Solid wall or ceiling mount	Surface mounting
			
	60 mm diameter, mounting in ceilings up to 25 mm thickness	Compatible with 60 mm box or rectangular box (type 502)	Fix by screw included in the packaging
18.41	•	•	•
18.51	•	•	•
18.61	•	•	

All mounting accessories are included in the packaging – just use the one appropriate for your installation.