finder
RELAYING INNOVATION

PIR movement and presence detectors 10 A

- Hotel room energy management systems
- Offices, swimming baths and schools
- Staircase light control
- Lighting control in corridors (for hotels, offices and hospitals)



18
SERIES

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PIR movement detectors for indoor or outdoor installations - wall mounting

Type 18.01
- Indoor installation
- Surface mounting

Type 18.11
- Outdoor installation (IP 54)
- Surface mounting

Type 18.A1
- Outdoor installation (IP 55)
- Terminal for PE connection
- Push-in terminals

- Output contact connected to supply live
- Small size
- Adjustable ambient light intervention threshold
- Adjustable Light ON Time
- Universal mounting position - permits the selection of any area for survey
- Wide angle of survey

18.01/18.11
Box clamp



18.A1
Push-in terminal



NOTE: with 110…125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 500 W instead of 1000 W)

For outline drawings see page 19

		18.01	18.11	18.A1
				
		• 1 NO 10 A • Indoor installations	• 1 NO 10 A • Outdoor installations • Protection category IP 54	• 1 NO 10 A • Outdoor installations • Protection category IP 55 • PE terminal • Push-in terminals
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	230/230	230/230	230/230
Rated load AC1	VA	2300	2300	2300
Rated load AC15	(230 V) VA	450	450	450
Nominal lamp rating 230 V:				
incandescent/halogen	W	1000	1000	1000
fluorescent lamp with electronic ballast	W	500	500	500
fluorescent lamp with electromagnetic ballast	W	350	350	350
CFL	W	150	150	150
LED (230 V)	W	150	150	150
halogen or LV LED with electronic ballast	W	300	300	300
halogen or LV LED with electromagnetic ballast	W	500	500	500
Standard contact material		$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
Supply specification				
Coil specification	V AC (50/60 Hz)	120…230	120…230	110…230
	DC	—	—	—
Rated power AC/DC	VA (50 Hz)/W	2.5/—	2.5/—	2/0.8
Operating range	V AC (50/60 Hz)	96…253	96…253	96…253
	DC	—	—	—
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	5…350	5…350	5…1000
Light ON time after last detection		10 s…12 min	10 s…12 min	10 s…20 min
Sensing area		See diagram page 16	See diagram page 16	See diagram page 16
Ambient temperature range	°C	–10…+50	–30…+50	–30…+50
Protection category		IP 40	IP 54	IP 55
Approvals (according to type)		CE UK CA EAC		CE UK CA EAC

Adjustable PIR movement detector for indoor and outdoor wall - mounting installation

Type 18.71.8.230.000x
Adjustable pir movement detector for indoor wall - mounted installation
- Surface mounting
- Automatic timing

Type 18.81.8.230.000x
Adjustable pir movement detector for outdoor wall - mounted installation
- Surface mounting
- Volt-free contact
- Switching push-button
- Adjustable Light ON Time

- Small size
- Adjustable ambient light intervention threshold
- Universal mounting position - permits the selection of any area for survey
- Wide angle of survey
- Easy mounting

18.71/18.81
Box clamp



For outline drawings see page 20

NEW **18.71**



- 1 NO (SPST-NO) 10 A
- Indoor installation
- Automatic Timing

NEW **18.81**



- 1 NO (SPST-NO) 10 A
- Outdoor installation
- Protection category IP 55

Colour			
White		18.71.8.230.0000	18.81.8.230.0000
Anthracite gray		18.71.8.230.0002	18.81.8.230.0002
Contact specification			
Number of contacts		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)
Rated voltage/ Maximum switching voltage	V AC	230/230	230/230
Rated load AC1	VA	2300	2300
Rated load AC15	(230 V) VA	450	450
Nominal lamp rating 230 V: incandescent/halogen	W	1000	1000
fluorescent lamp with electronic ballast	W	500	500
fluorescent lamp with electromagnetic ballast	W	350	350
CFL	W	150	150
LED (230 V)	W	150	150
halogen or LV LED with electronic ballast	W	300	300
halogen or LV LED with electromagnetic ballast	W	500	500
Standard contact material		$AgSnO_2$	$AgSnO_2$
Supply specification			
Coil specification	V AC (50/60 Hz)	230	230
	DC	—	—
Rated power AC/DC	VA (50 Hz)/W	5/0.5	5/0.5
Operating range	V AC (50/60 Hz)	184…253	184…253
	DC	—	—
Technical data			
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$
Ambient light intervention threshold	lx	10…350	10…350
Light ON time after last detection		10 s…15 min (automatic)	18 s…15 min
Sensing area		See diagram page 16	See diagram page 16
Ambient temperature range	°C	–10…+50	–30…+50
Protection category		IP 40	IP 55
Approvals (according to type)		CE UK CA EAC	

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PIR movement detectors for indoor installations - ceiling mount

Type 18.21
- Surface mounting

Type 18.31
- Recess mounting (white version)
- Recess mounting or surface mounting (anthracite gray version)

Type 18.31…003x
- High ceiling type (6 meter max.)
- Surface or recess mounting

- Output contact connected to supply live
- Small size
- Adjustable ambient light intervention threshold
- Adjustable Light ON Time
- Wide angle of survey

18.21/18.31/18.31…003x
Box clamp



NOTE: with 110…125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 500 W instead of 1000 W)

For outline drawings see page 18

	18.21	NEW **18.31**	NEW **18.31…003x**
			
	• 1 NO 10 A • Surface mounting	• 1 NO 10 A • Recess mounting (white version) • Recess mounting or surface mounting (anthracite gray version)	• 1 NO 10 A • High ceiling applications (up to 6 meters) • Light ON time after last detection (30 s…35 min) • Surface or recess mounting
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	230/230	230/230	230/230
Rated load AC1 VA	2300	2300	2300
Rated load AC15 (230 V) VA	450	450	450
Nominal lamp rating 230 V:			
incandescent/halogen W	1000	1000	1000
fluorescent lamp with electronic ballast W	500	500	500
fluorescent lamp with electromagnetic ballast W	350	350	350
CFL W	150	150	150
LED (230 V) W	150	150	150
halogen or LV LED with electronic ballast W	300	300	300
halogen or LV LED with electromagnetic ballast W	500	500	500
Standard contact material	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$
Supply specification			
Coil specification V AC (50/60 Hz)	120…230	120…230	120…230
DC	—	—	—
Rated power AC/DC VA (50 Hz)/W	2/1	2/1	2/1
Operating range V AC (50/60 Hz)	96…253	96…253	96…253
DC	—	—	—
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	5…350	5…350	5…350
Light ON time after last detection	10 s…12 min	10 s…12 min	30 s…35 min
Sensing area	See diagram page 16	See diagram page 16	See diagram page 16
Ambient temperature range °C	–10…+50	–10…+50	–10…+50
Protection category	IP 40	IP 40	IP 40
Approvals (according to type)	CE UK CA EAC		

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PIR movement detectors for indoor installations, with volt-free output contact

Type 18.21…0300
- Surface mounting

Type 18.31…03xx
- Recess mounting or surface mounting (only for anthracite gray version)

- Applications where interface to PLC or BMS is required
- Ceiling mounting
- Small size
- Adjustable ambient light intervention threshold
- Adjustable Light ON Time
- Wide angle of survey

18.21…0300/18.31…03xx
Box clamp



NOTE: with 110…125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 500 W instead of 1000 W)

For outline drawings see page 18

	18.21…0300	NEW 18.31…03xx
		
	• 1 NO 10 A • Surface mounting	• 1 NO 10 A • Recess mounting or surface mounting (only for anthracite gray version)
Contact specification		
Number of contacts	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)
Rated voltage/ Maximum switching voltage V AC	250/400	250/400
Rated load AC1 VA	2500	2500
Rated load AC15 (230 V) VA	450	450
Nominal lamp rating 230 V:		
incandescent/halogen W	1000	1000
fluorescent lamp with electronic ballast W	500	500
fluorescent lamp with electromagnetic ballast W	350	350
CFL W	150	150
LED (230 V) W	150	150
halogen or LV LED with electronic ballast W	300	300
halogen or LV LED with electromagnetic ballast W	500	500
Standard contact material	$AgSnO_2$	$AgSnO_2$
Supply specification		
Coil specification V AC (50/60 Hz)	120…230	120…230
V AC (50/60 Hz)/DC	24	24
Rated power AC/DC VA (50 Hz)/W	2/1	2/1
Operating range V AC (50/60 Hz)	96…253	96…253
V AC (50/60 Hz)/DC	19.2…26.4	19.2…26.4
Technical data		
Electrical life at rated load AC1 cycles	$100 \cdot 10^3$	$100 \cdot 10^3$
Ambient light intervention threshold lx	5…350	5…350
Light ON time after last detection	10 s…12 min	10 s…12 min
Sensing area	See diagram page 16	See diagram page 16
Ambient temperature range °C	–10…+50	–10…+50
Protection category	IP 40	IP 40
Approvals (according to type)	CE UK CA EAC	

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Movement and presence detectors with Push-in terminals For indoor installation

Type 18.51
- Standard version
- Volt-free output contact

Type 18.51...0040
- Possibility to connect external push-button to force the output state
- Dynamic light compensation
- Output contact connected to supply live

Type 18.51...B300
- Programmable via Bluetooth LE (Low Energy) using Android and iOS smartphones

- Extensive sensing area up to 64 m^2
- Two sensing areas: "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 2 or 3 module box
- Double terminals for easy "looping" in and out

18.51/18.51...0040/18.51...B300
Push-in terminal



NOTE: with 110...125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 500 W instead of 1000 W)

For outline drawings see page 18

	18.51	18.51...0040	18.51...B300
			
			
	• 1 NO 10 A (volt-free) • Sensing area 360°	• 1 NO 10 A (connected to supply live) • Sensing area 360° • External push-button connection • Dynamic Light Compensation	• 1 NO 10 A (volt-free) • Sensing area 360°
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	230/230	230/230
Rated load AC1 VA	2500	2300	2300
Rated load AC15 (230 V) VA	450	450	450
Nominal lamp rating 230 V:			
incandescent/halogen W	1000	1000	1000
fluorescent lamp with electronic ballast W	500	500	500
fluorescent lamp with electromagnetic ballast W	350	350	350
CFL W	150	150	150
LED (230 V) W	150	150	150
halogen or LV LED with electronic ballast W	300	300	300
halogen or LV LED with electromagnetic 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...∞	1...∞	4...1000
Light ON time after last detection	12 s...35 min	12 s...35 min	12 s...25 min
Sensing area	See diagram page 17	See diagram page 17	See diagram page 17
Ambient temperature range °C	–10...+50	–10...+50	–10...+50
Protection category	IP 40	IP 40	IP 40
Approvals (according to type)	CE UK CA EAC		CE UK CA

18 SERIES
PIR movement and presence detectors DALI

Movement and presence detectors with Push-in terminals
For indoor installation

Type 18.5D with DALI interface
Three selectable functions:
- Daylight-linked constant light level control
- ON/OFF control with early warning
- ON/OFF control with early warning + courtesy light level

18.5D
Push-in terminal



For outline drawings see page 18

18.5D

DALI



DALI



- Applications: offices, schools, zones of low activity
- Suitable for direct control of up to 8 DALI lighting ballasts
- Extensive sensing area up to 64 m^2
- Two sensing areas: "presence" suitable for zones of low activity, and "movement" suitable for transit areas or zones of high activity

Supply specification		
Coil specification	V AC (50/60 Hz)	110…230
Rated power	VA (50 Hz)/W	1.5/1
Operating range	V AC (50/60 Hz)	96…253
Supply specification		
Type of BUS		—
Supply voltage	V DC	—
Rated consumption	mA	—
Technical data		
Ambient light intervention threshold	lx	10…800
Light ON time after last detection		10 s…35 min
Sensing area		See diagram page 17
Ambient temperature range	°C	–10…+50
Protection category		IP 40
Approvals (according to type)		CE UK CA

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Movement detectors with Push-in terminals
For indoor installation - with volt-free output contact

Type 18.41
- Corridor (ceiling) installation

- Extensive sensing area up to 120 m²
- Modern design
- Quick installation thanks to push-in terminals
- 1 NO contact 10 A, with "zero crossing" switching
- Double terminals for easy "looping" in and out

18.41
Push-in terminal



NOTE: with 110…125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 500 W instead of 1000 W)

18.41





- 1 NO 10 A
- Applications: hotel and offices corridors, transit areas
- Sensing area 30 meters length and 4 meters width

For outline drawings see page 18

Contact specification		
Number of contacts		1 NO (SPST-NO)
Rated current/Maximum peak current	A	10/20 (100 A - 5 ms)
Rated voltage/ Maximum switching voltage	V AC	250/400
Rated load AC1	VA	2500
Rated load AC15	VA	450
Nominal lamp rating 230 V:		
incandescent/halogen	W	1000
fluorescent lamp with electronic ballast	W	500
fluorescent lamp with electromagnetic ballast	W	350
CFL	W	150
LED (230 V)	W	150
halogen or LV LED with electronic ballast	W	300
halogen or LV LED with electromagnetic ballast	W	500
Standard contact material		$AgSnO_2$
Supply specification		
Coil specification	V AC (50/60 Hz)	110…230
Rated power	VA (50 Hz)/W	1.5/1
Operating range	V AC (50/60 Hz)	96…253
Technical data		
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$
Ambient light intervention threshold	lx	1…∞
Light ON time after last detection		12 s…35 min
Sensing area		See diagram page 16
Ambient temperature range	°C	–10…+50
Protection category		IP 40
Approvals (according to type)		CE UK CA EAC

18 SERIES
PIR movement detectors 10 A

Movement detectors for indoor installation

Type 18.91

- Wall mount installation

- External push-button connection
- Modern design
- 1 output with "zero crossing" switching
- Wall mounting compatible with 3 module housing, complete with adaptor for following frames:
  - Ave S44
  - BTicino series Axolute
  - BTicino series Living
  - BTicino series Living Light
  - BTicino series Living Light Air
  - BTicino series Matix
  - Gewiss series Chorus
  - Gewiss series System
  - Simon Urmet Nea
  - Vimar series Eikon
  - Vimar series Idea
  - Vimar series Arkè
  - Vimar Plana
- White or anthracite gray versions

18.91
Box clamp



18.91



- Specifically for wall mounting
- Wide angle: 110°
- Applications: corridors, transit areas, toilets, staircases

For outline drawings see page 20

Output data		
Rated voltage	V AC	230
Power max.	W	200
Power min.	W	3
Nominal lamp rating 230 V:		
incandescent/halogen	W	200
toroidal electromagnetic transformers for LV halogen	W	200
E-core electromagnetic transformers for LV halogen	W	200
electronic transformers (ballasts) for LV halogen	W	200
compact fluorescent (CFL)	W	200
LED (230 V)	W	200
electronic transformers for LV LED	W	200
Supply specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	230
Rated power	VA(50 Hz)/W	14/0.5
Operating range		(0.8…1.1)U_N
Technical data		
Ambient light intervention threshold	lx	5…500 (anthracite gray)/6…600 (white)
Light ON time after last detection		10 s…20 min
Sensing area		See diagram page 16
Ambient temperature range	°C	–10…+50
Protection category		IP 20
Approvals (according to type)		CE UKCA

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Ordering information

Example: 18 series, PIR movement detector for indoor installations, wall mounting, 1 NO 10 A contact, 120…230 V AC supply.

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

Series

Type
0 = Adjustable, indoor installation - wall mounting
1 = Adjustable, outdoor installation
2 = Indoor ceiling installation - surface mounting
3 = Indoor ceiling installation - recessed mounting
4 = PIR movement detector for corridors
5 = PIR movement and presence detector
7 = Adjustable, indoor installation - wall mounting, easy installation
8 = Adjustable, outdoor installation - wall mounting, easy installation
9 = PIR movement detector wall mounting residential switch boxes
A = Outdoor installations IP 55, push-in terminals

No. of poles/Output
1 = Single pole switching 1 NO (SPST-NO), 10 A
D = PIR movement and presence detector with DALI interface

Supply version
0 = AC (50/60 Hz)/DC (only 24 V)
8 = AC (50/60 Hz)

Supply voltage
024 = 24 V AC/DC for types 18.21/31-0300 only
230 = 120…230 V for types 18.01, 18.11, 18.21, 18.31
230 = 110…230 V for types 18.A1, 18.41, 18.51, 18.51.B300, 18.5D
230 = 230 V for type 18.71, 18.81, 18.91

Program
0 = Standard
B = Bluetooth programming

Contact circuit
0 = Voltage output
0 = Volt-free output contact (only for 18.81)
3 = Volt-free output contact

Special version
0 = Standard version
0 = External push-button connection (only for 18.81)
2 = Ceiling and counter-ceiling mounting adpters included in packaging (only 18.31)
3 = High bay lens, ceiling and counter-ceiling mounting adpters included in packaging (only 18.31)
4 = External push-button connection (only 18.51-0040 and 18.91)

Special version
0 = Standard version
1 = High bay lens, colour white (only 18.31)
2 = Colour anthracite gray

Codes

18.01.8.230.0000
18.11.8.230.0000
18.21.0.024.0300
18.21.8.230.0000
18.21.8.230.0300
18.31.0.024.0300
18.31.8.230.0000
18.31.8.230.0022
18.31.8.230.0031
18.31.8.230.0032
18.31.8.230.0300
18.31.8.230.0322
18.41.8.230.0300
18.51.8.230.0040
18.51.8.230.0300
18.51.8.230.B300
18.71.8.230.0000
18.71.8.230.0002
18.81.8.230.0000
18.81.8.230.0002
18.91.8.230.0040
18.91.8.230.0042
18.A1.8.230.0000
18.5D.8.230.0000

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Technical data

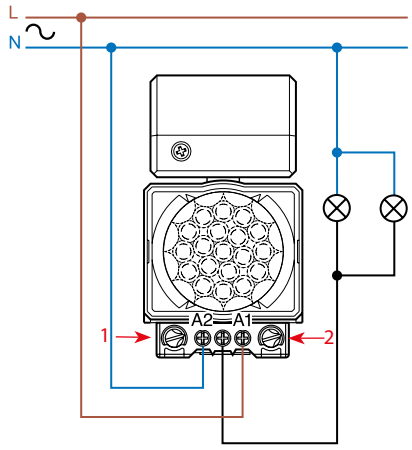
Insulation								
Dielectric strength between open contacts			V AC	1000 (except for type 18.91 TRIAC output)				
Between supply and contact			V AC	1500 (types 18.21…0300, 18.31…03xx, 18.41, 18.51…0300, 18.51…B300, 18.81)				
EMC specifications								
Type of test		**Reference standard**						
Electrostatic discharge	contact discharge	EN 61000-4-2		4 kV				
	air discharge	EN 61000-4-2		8 kV				
Radiated electromagnetic field (80…1000 MHz)		EN 61000-4-3		10 V/m (18.71, 18.81)				
Radiated electromagnetic field (80…2000 MHz)		EN 61000-4-3		3 V/m				
Radiated electromagnetic field (1.4…6 GHz)		EN 61000-4-3		3 V/m (18.71, 18.81)				
Fast transients (burst 5/50 ns, 5 and 100 kHz)	on supply terminals	EN 61000-4-4		1 kV 2 kV (18.71, 18.81)				
Voltage pulses on supply terminals (surge 1.2/50 µs)	common mode	EN 61000-4-5		4 kV (18.01, 18.11, 18.21, 18.31,18.41, 18.51, 18.A1, 18.5D) 2 kV (18.91)				
	differential mode	EN 61000-4-5		4 kV 2.5 kV (18.01, 18.11) 1 kV (18.91) 3 kV (18.71, 18.81)				
Radiofrequency common mode voltage (0.15…80 MHz)	on supply terminals	EN 61000-4-6		15 V				
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				
	100% U_N , 60% U_N, 30% U_N	EN 61000-4-11		10 cycles (18.71, 18.81)				
Radiofrequency conducted emissions	(0.15…30)MHz	EN 55014		class B				
Radiated emissions	(30…1000)MHz	EN 55014		class B				
Terminals				**18.01, 18.11, 18.21, 18.31, 18.91**		**18.71, 18.81**		**18.41, 18.51, 18.A1, 18.5D**
Type				Box clamp		Box clamp		Push-in (see pag. 20)
Screw torque			Nm	0.5		0.35		—
Max. wire size				solid cable	stranded cable	solid cable	stranded cable	solid cable	stranded cable
			mm²	1 x 4 / 2 x 2.5	1 x 4 / 2 x 2.5	1 x 2.5 / 2 x 1	1 x 2.5 / 2 x 1	2.5	2.5
			AWG	1 x 12 / 2 x 14	1 x 12 / 2 x 14	1 x 14 / 2 x 16	1 x 14 / 2 x 16	14	14
Wire strip length			mm	9	9	6	6	8	8
Other data								
Power lost to the environment		without output current	W	0.3				
		with rated output current	W	1.4				
Cable grip (type 18.11)			Ø mm	(8.9…12)				

Following the initial power-on, and power-on following a power interruption, the detector makes a hardware-software initialisation for approximately 15 seconds only for 18.71 and 18.81.
The behaviour of the output during this period can vary depending on the product type, and in some cases on the state of the detector before the power interruption and on the lighting level.

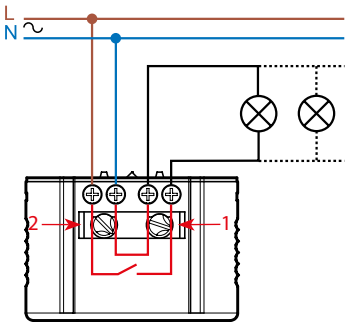
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Wiring diagram

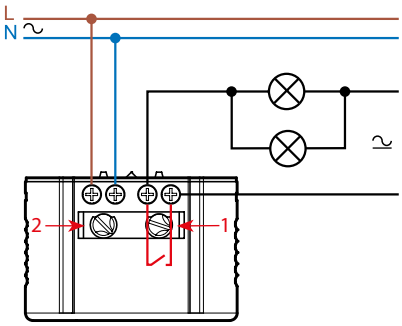
Type 18.01/18.11



Type 18.21/18.31/18.31…003x

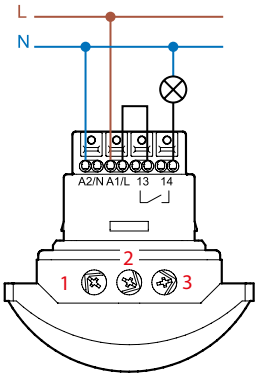


Type 18.21…0300/18.31…03xx

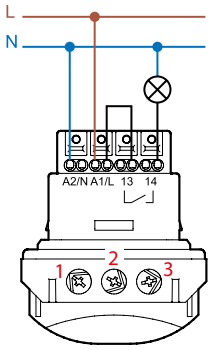


1 = ambient light intervention threshold
2 = light ON time following last detection

Type 18.41



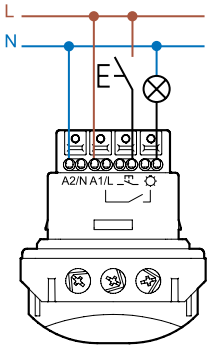
Type 18.51/18.51…B300



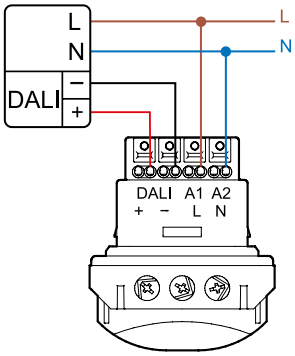
1 = light ON time following last detection
2 = sensitivity setting
3 = ambient light intervention threshold
Note: not for 18.51…B300

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.

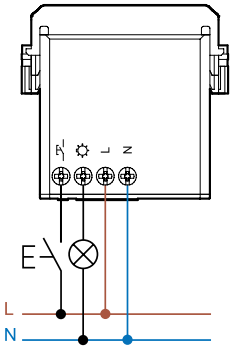
Type 18.51…0040



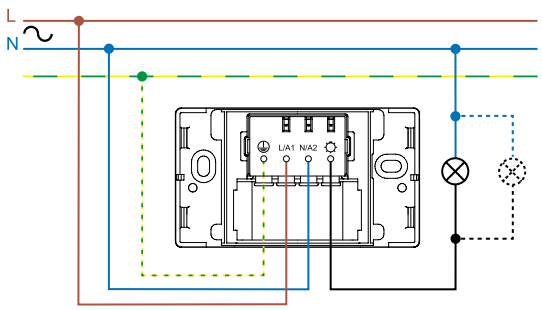
Type 18.5D



Type 18.91



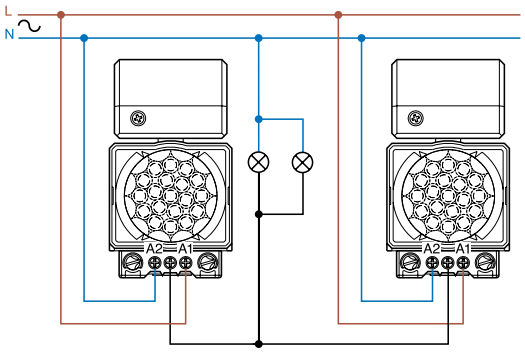
Type 18.A1



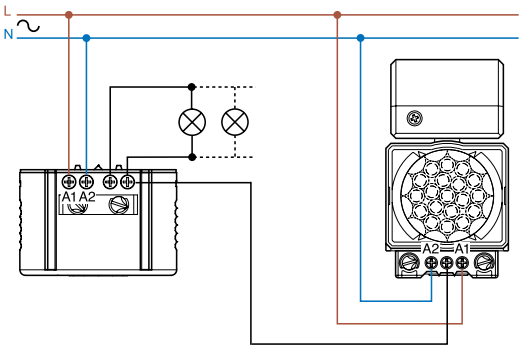
J

Wiring diagram

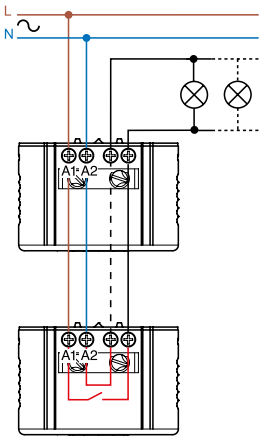
Type 18.01/18.11



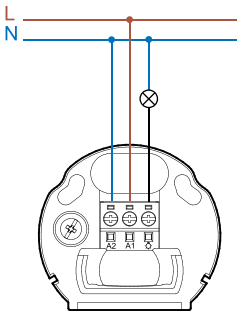
Type 18.01/18.21



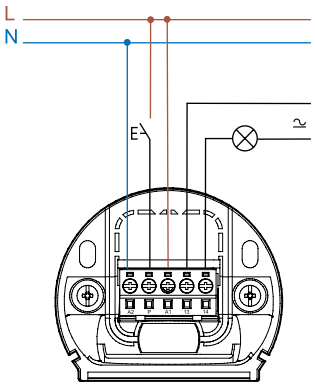
Type 18.21/18.31/18.31...003x

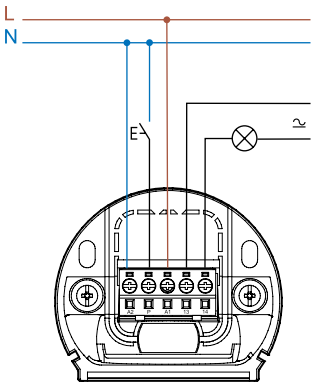


Type 18.71



Type 18.81





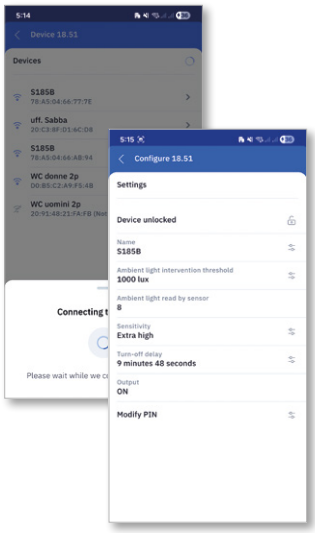
Note: Observe the polarity indicated for Phase and Neutral

Type 18.51-B300 - Bluetooth

Through the use of Bluetooth LE (Low Energy) technology programming the detector's operating characteristics can be easily and conveniently done using an Android or iOS smartphone.

After installing the 18.51, simply download the Free **App Finder Toolbox** from Google and Apple's official stores and set all the required parameters.

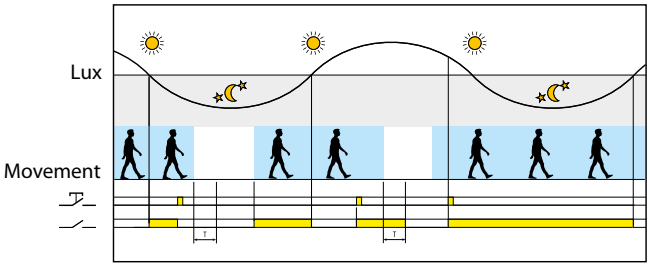
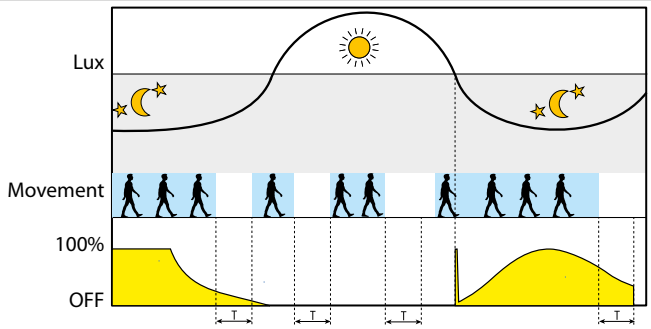
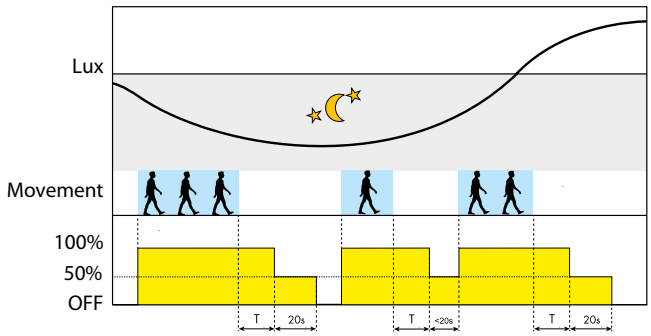
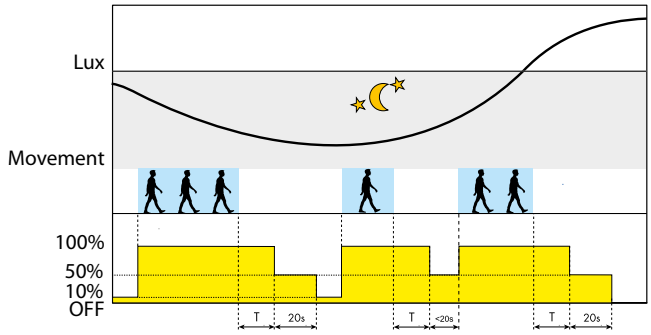
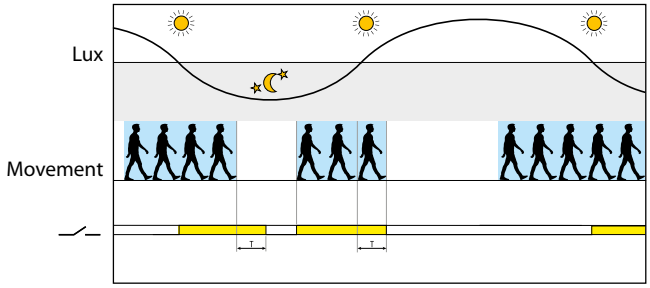
Android, Google Play and the Google Play logo are trademarks of Google Inc.
Apple is a trademark of Apple Inc. App Store is a service mark of Apple Inc.



Finder Toolbox

Detectors can be named and uniquely identified within a building.
The ambient light level threshold can be adjusted between 4 lux and 1000 lux, the Light On delay time can be set from 12 seconds to 25 minutes, and the movement detector set to one of three sensitivity levels.
When Bluetooth connection is made to a detector a red LED signals the correct pairing and that all the set parameters have been transferred.
The detector then responds with two feedback values - brightness as read by the light sensor in the detector and the contact status, if closed (On) or open (Off). For security, the detectors can be locked by a selector switch and a 4-digit PIN - preventing parameter changes by unauthorized persons.

Functions

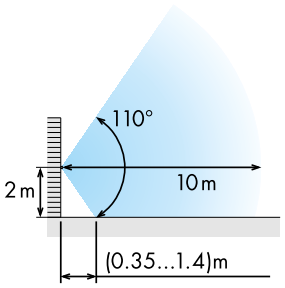
Type	Functions
18.51…0040 **18.81** **18.91**	 **Push-button function (18.51…0040)** A control pulse on the push-button inverts the status of the output relay, until the timing after the last movement detected is elapsed. **Dynamic Light Compensation (18.51…0040, 18.81 and 18.91)** By incorporating Finder's Patented "light feedback compensation" principle, the 18.51…0040, 18.81 and 18.91 are able to calculate the artificial light contributed by the lamps controlled by the output relay. In effect, this means the 18.51…0040 is able to continuously monitor the natural ambient light level, even when the output is On. As a consequence, whenever the natural light level exceeds the threshold setting the output is forced Off. This can significantly minimises the time the lighting is On, particularly where there is a high level of traffic - and cost savings can be considerable. This is an advance over other types of movement detectors, which are unable to identify the natural ambient light level when the output is On and so can only turn Off after the time delay that follows the last detected movement. In busy areas this may mean that the movement detector is being continuously re-triggered and maintained in the On state, even though the natural light level has long risen above the threshold.
18.5D	 **Comfort - Daylight-linked constant light level control** Adjusts to maintain a constant brightness level considering the detection of movement and the level of daylight - increasing or decreasing the power of the artificial light as appropriate. Suitable for small offices, classrooms or workplaces. This allows considerable energy saving while maintaining a comfortable level of illumination.
	 **Simplicity - ON/OFF control with early warning** Works as a simple movement detector, activating the lamps at 100% power. But provides an early warning of the next shutdown with a power reduction to 50% for 20 seconds. Avoids a sudden total shutdown of lighting.
	 **Courtesy - ON/OFF control with early warning + courtesy light level** If the brightness level is lower than the set value, artificial light is maintained at 10% power, guaranteeing a minimum level of illumination at all times. When movement is detected, the power of the lamps is raised to 100%. There is an early warning of any reduction from the 100% power level by a reduction to 50% for 20 seconds. Suitable for common areas, lobbies, corridors, elevator zones.
18.01 **18.11** **18.21** **18.31** **18.41** **18.51…0300** **18.51…B000** **18.71** **18.A1**	 **Detection of movement** Detected movement closes, or keeps closed, the output contact. Operating the push-button closes, or keeps closed, the output contact - for the set time T.

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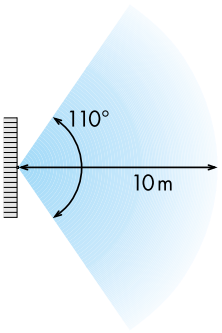
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Sensing area

18.01, 18.11, 18.71, 18.81, 18.A1 - Wall mounting

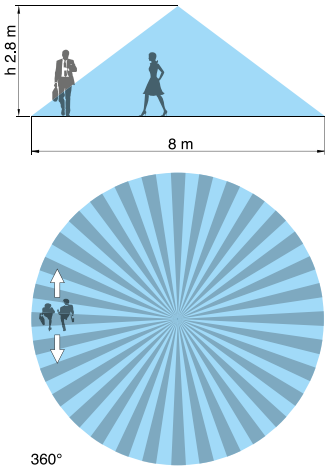


Side view

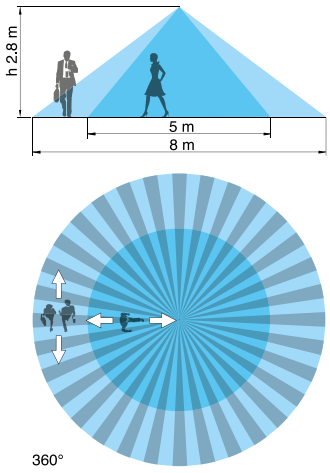


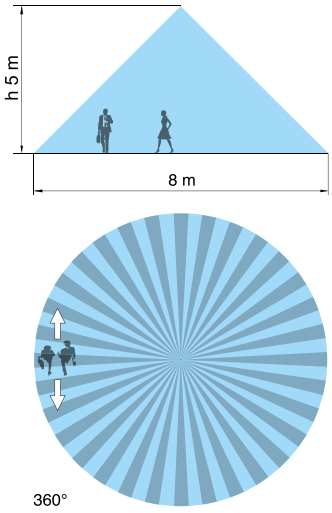
Plan view

18.01, 18.11, 18.71, 18.81, 18.A1 - Ceiling mounting

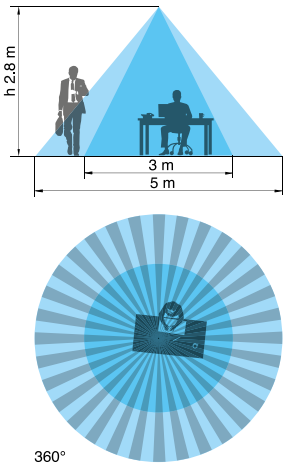


18.21, 18.31 - Ceiling mounting

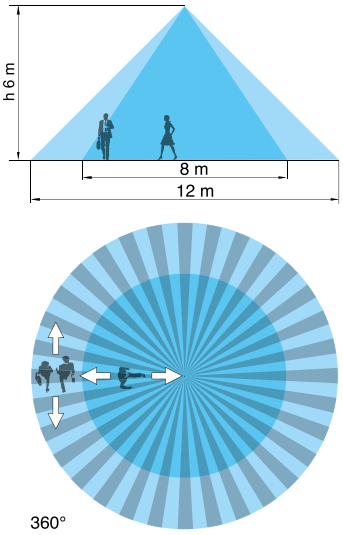




18.31...003x - High ceilings installations

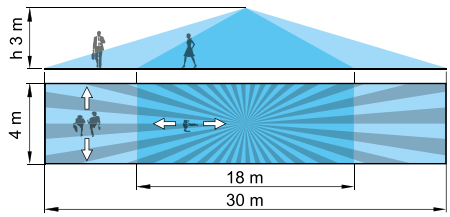


Movement and presence detector*

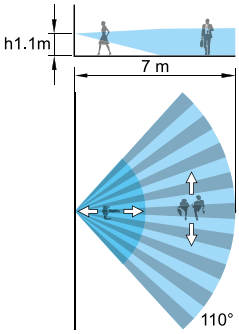


For applications with high ceilings
(up to 6 meters)

18.41



18.91

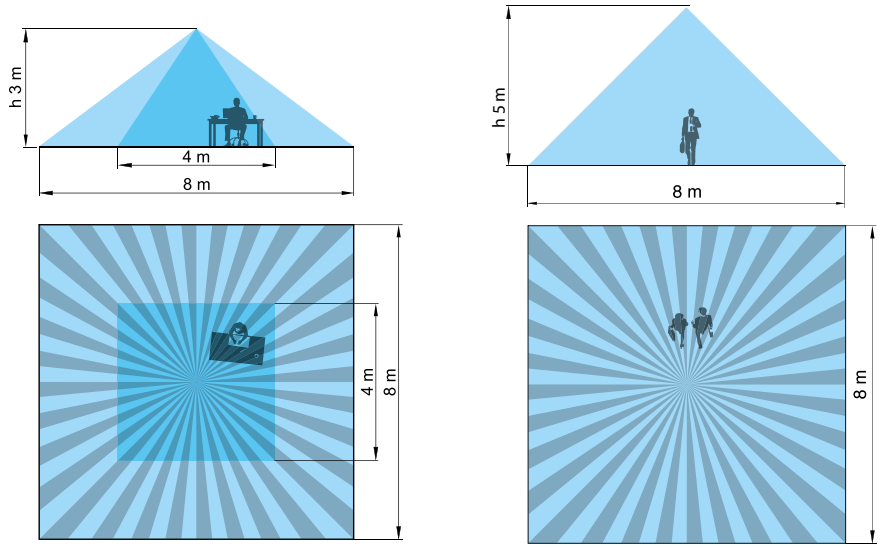


* NOTE: Motion and presence detector refers to the device's ability to detect micro-movements of approximately 30 cm. This allows for the detection of people in offices, schools, bathrooms, and other environments. It is not recommended for detecting people who are sleeping or completely motionless.

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Sensing area

18.51/18.51...B300/18.5D



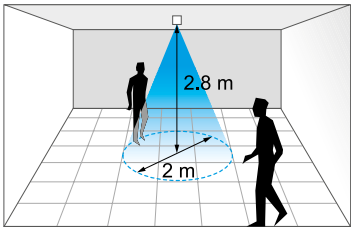
Movement and presence detector*

* NOTE: Motion and presence detector refers to the device's ability to detect micro-movements of approximately 30 cm. This allows for the detection of people in offices, schools, bathrooms, and other environments. It is not recommended for detecting people who are sleeping or completely motionless.

Accessories

18.21/18.31



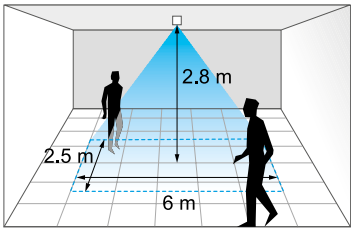


Beam limiter (supplied with the types 18.21/31)

At an installation height of 2.8 meters the area of survey will reduce at: diameter 2 meters

18.41



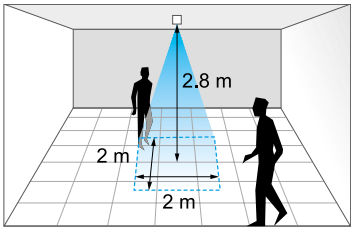


Beam limiter (supplied with the type 18.41)

At an installation height of 2.8 meters the area of survey will reduce at: 2.5 x 6 meters

18.51





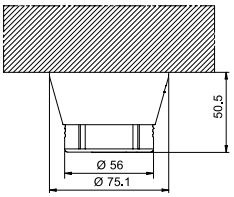
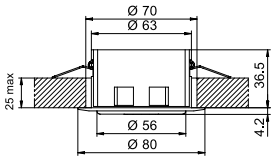
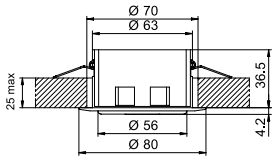
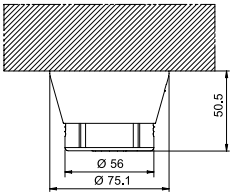
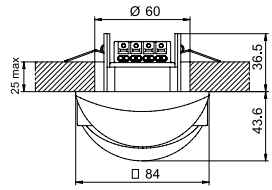
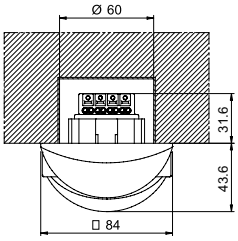
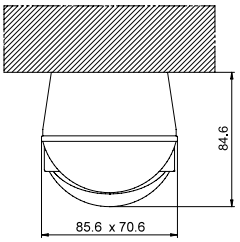
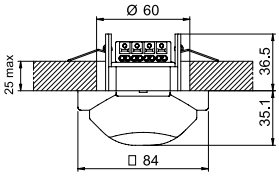
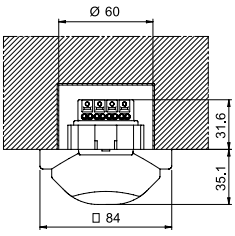
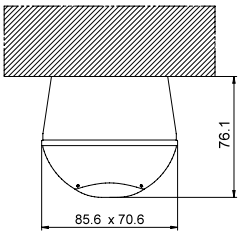
Beam limiter (supplied with the type 18.51)

At an installation height of 2.8 meters the area of survey will reduce at: 2 x 2 meters

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Outline drawings

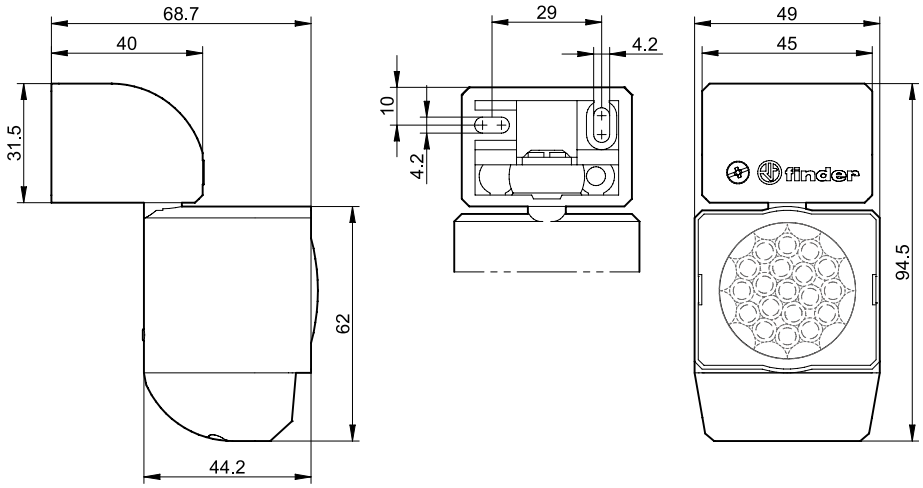
Type	Suspended ceiling mounting	Recess mounting	Surface mounting
18.21			
18.31			
18.31...003x			
18.41			
18.51 **18.5D** **18.51...B300**			

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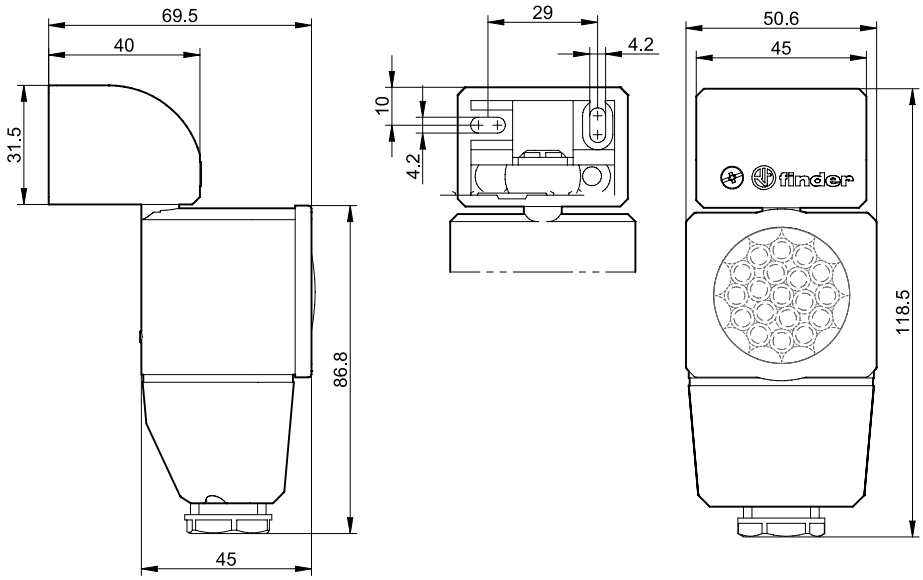
VI-2026, www.findernet.com

Outline drawings

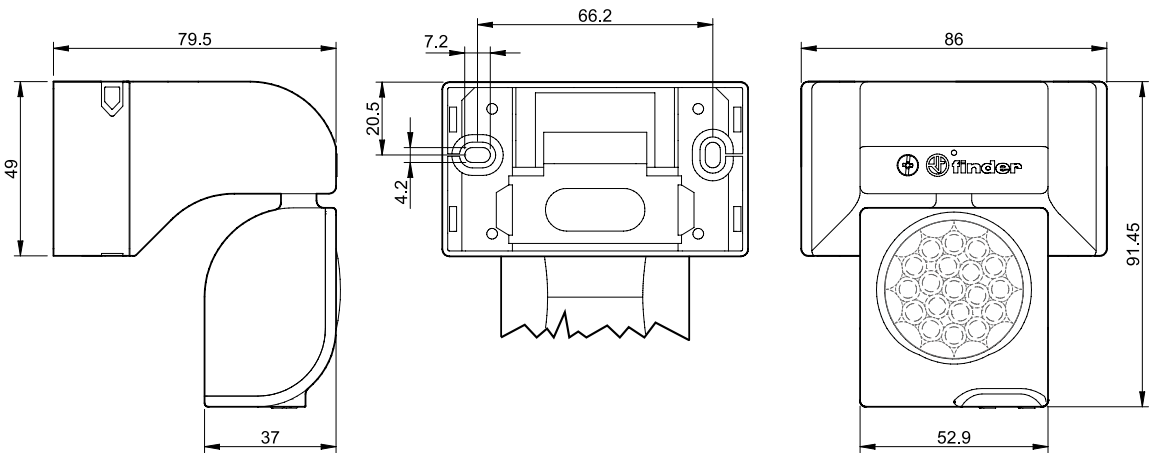
Type 18.01



Type 18.11



Type 18.A1

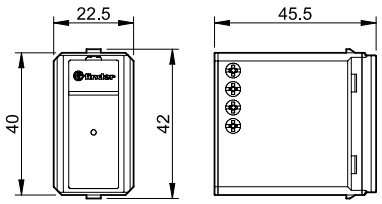


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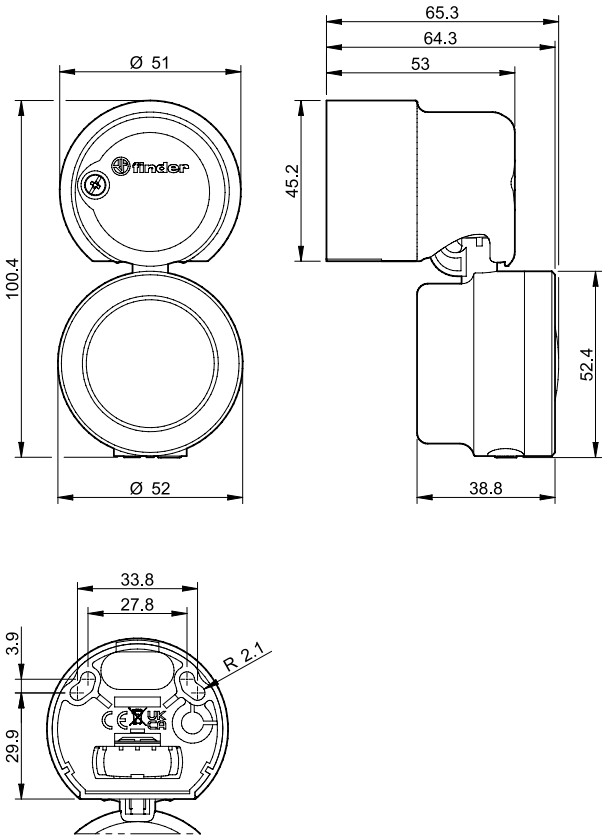
VI-2026, www.findernet.com

Outline drawings

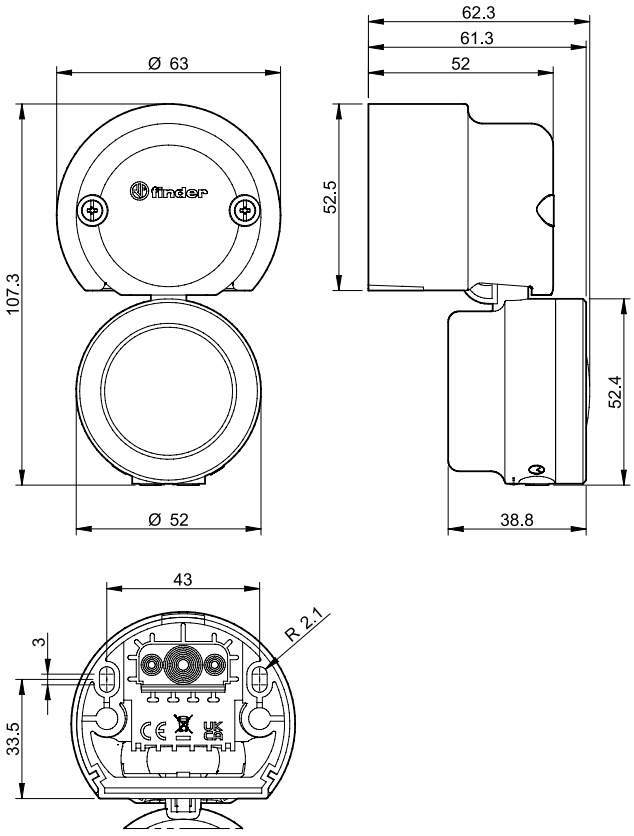
Type 18.91



Type 18.71



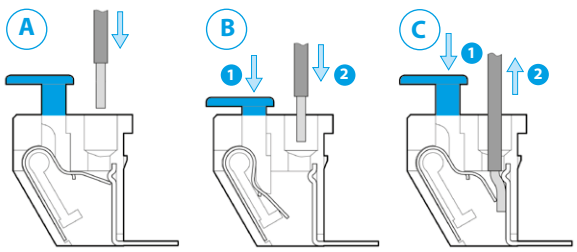
Type 18.81



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Push-in terminals for 18.41, 18.51, 18.5D and 18.A1

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 mm².

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

Please see general technical information

VI-2026, www.findernet.com