finder
SWITCH TO THE FUTURE

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

FINDER reserves the right to alter characteristics at any time without notice. FINDER assumes no liability for damage to persons or property, caused as a result of the incorrect use or application of its products.

PIR movement detectors for internal or external installations - wall mounting

Type 18.01
- Internal installation
- Surface mounting

Type 18.11
- External installation (IP54)
- Surface mounting

Type 18.A1
- External mounting (IP55)
- 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
Screw terminal



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 17

	18.01	18.11	NEW 18.A1
			
	• 1 NO 10 A • Internal installations	• 1 NO 10 A • External installations • Protection category IP 54	• 1 NO 10 A • External 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	300	300	300
LED 230 V W	300	300	300
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 15	See diagram page 15	See diagram page 15
Ambient temperature range °C	–10…+50	–30…+50	–30…+50
Protection category	IP 40	IP 54	IP 55
Approvals (according to type)	CE EAC		CE EAC

PIR movement detectors for internal installations - ceiling mount

Type 18.21
- Surface mounting

Type 18.31
- Recess mounting

Type 18.31-0031
- 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…0031
Screw 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 17

	18.21	18.31	18.31-0031
			
	• 1 NO 10 A • Surface mounting	• 1 NO 10 A • Recess mounting	• 1 NO 10 A • High ceiling applications (up to 6 meters) • Light ON time after last detection (30 s…35 min)
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	300	300	300
LED 230 V W	300	300	300
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 15	See diagram page 15	See diagram page 15
Ambient temperature range °C	–10…+50	–10…+50	–10…+50
Protection category	IP 40	IP 40	IP 40
Approvals (according to type)	CE EAC		CE EAC

VII-2019, www.findernet.com

PIR movement detectors for internal installations, with volt-free output contact **Type 18.21-0300** - Surface mounting **Type 18.31-0300** - Recess mounting • 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**  • 1 NO 10 A • Surface mounting	**18.31-0300**  • 1 NO 10 A • Recess mounting

18.21…0300/18.31…0300
Screw 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 16

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	300	300
LED 230 V	W	300	300
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 15	See diagram page 15
Ambient temperature range	°C	–10…+50	–10…+50
Protection category		IP 40	IP 40
Approvals (according to type)		CE EAC	

18 SERIES
PIR movement and presence detectors 10 A

finder

Movement and presence detectors with Push-in terminals
For internal 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 m²
- 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 16

	18.51	NEW 18.51…0040	NEW 18.51…B300
	 	 	 Bluetooth 
	• 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	300	300	300
LED 230 V W	300	300	300
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…500	1…500	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 15	See diagram page 15	See diagram page 15
Ambient temperature range °C	–10…+50	–10…+50	–10…+50
Protection category	IP 40	IP 40	IP 40
Approvals (according to type)	CE EAC		CE

VII-2019, www.findernet.com

Movement and presence detectors with Push-in terminals. For internal 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

Type 18.4K and 18.5K with KNX interface

- 2 outputs (datapoint) for load control (Lighting, HVAC etc.)
- Adjustment of ambient light threshold, and PIR sensitivity
- 1 output (datapoint) – master/slave detection
- Selectable function to inhibit ambient light threshold control
- Reporting of light level and movement status (for security purposes, etc.)
- Detection of movement direction (type 18.4K)
- Internal ceiling mounting
- Suitable for ETS 4 (or latest versions)

18.5D
Push-in terminal



18.4K/18.5K
KNX terminal



NEW **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

NEW **18.4K.9.030.0000**

KNX



- Applications: hotel and offices corridors, transit areas
- Sensing area 30 meters length and 4 meters width
- Two detection areas: right and left

NEW **18.5K.9.030.0000**

KNX



- Applications: offices, schools, zones of low activity
- 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

For outline drawings see page 16

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		—	KNX	KNX
Supply voltage	V DC	—	30	30
Rated consumption	mA	—	10	10
Technical data				
Ambient light intervention threshold	lx	10…500	1…1500	1…1500
Light ON time after last detection		10 s…35 min	0.1 s…18 h	0.1 s…18 h
Ambient temperature range	°C	–10…+50	–5…+45	–5…+45
Protection category		IP 40	IP 40	IP 40
Approvals (according to type)		CE	CE	CE

J

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

Type 18.41
- Corridor (ceiling) installation

Type 18.61
- Wall mount installation

- Extensive sensing area up to 120 m^2
- 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

18.41/18.61
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 16

	18.41	18.61
		
	• 1 NO 10 A • Applications: hotel and offices corridors, transit areas • Sensing area 30 meters length and 4 meters width	• 1 NO 10 A • Specifically for wall mounting • Wide angle: 180° • Wall mounting compatible with 60 mm box
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 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	300	300
LED 230 V W	300	300
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)	110…230	110…230
Rated power VA (50 Hz)/W	1.5/1	1.5/1
Operating range V AC (50/60 Hz)	96…253	96…253
Technical data		
Electrical life at rated load AC1 cycles	$100 \cdot 10^3$	$100 \cdot 10^3$
Ambient light intervention threshold lx	1…500	1…500
Light ON time after last detection	12 s…35 min	12 s…35 min
Sensing area	See diagram page 15	See diagram page 15
Ambient temperature range °C	–10…+50	–10…+50
Protection category	IP 40	IP 40
Approvals (according to type)	CE EAC	CE EAC

J

VII-2019, www.findernet.com

Movement detectors for internal 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 black versions

18.91 NEW



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

18.91
Screw terminal



For outline drawings see page 17

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
230 V LED	W	200
electronic transformers for LV LED	W	200
Supply specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	230
Rated power	VA(50Hz)/W	14/0.5
Operating range		(0.8…1.1)U_N
Technical data		
Ambient light intervention threshold	lx	5…500 (black)/6…600 (white)
Light ON time after last detection		10 s…20 min
Sensing area		See diagram page 15
Ambient temperature range	°C	–10…+50
Protection category		IP 20
Approvals (according to type)		CE

Ordering information

Example: 18 series, PIR movement detector for internal 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 = Internal installation - wall mounting
1 = External installations
2 = Internal ceiling installation - surface mounting
3 = Internal ceiling installation - recessed mounting
4 = PIR movement detector for corridors
5 = PIR movement and presence detector
6 = PIR movement detector wall mounting
9 = PIR movement detector wall mounting residential switch boxes
A = External 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
K = PIR movement and presence detector with KNX interface

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

Supply voltage
024 = 24 V AC/DC for types 18.21/31-0300 only
030 = KNX Bus
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, 18.61, 18.5D
230 = 230 V for type 18.91

Contact circuit
0 = Voltage output
3 = Volt-free output contact

Program
0 = Standard
B = Bluetooth programming

Special version
31 = High ceilings, (30 s…35 min)
40 = Push-button connection (only 18.51)
40 = Push-button connection, white (only 18.91)
42 = Push-button connection, black (only 18.91)

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
18.31.8.230.0300
18.31.8.230.0031
18.41.8.230.0300
18.51.8.230.0300
18.51.8.230.0040
18.51.8.230.B300
18.61.8.230.0300
18.91.8.230.0040
18.91.8.230.0042
18.A1.8.230.0000
18.5D.8.230.0000
18.4K.9.030.0000
18.5K.9.030.0000

J

Technical data

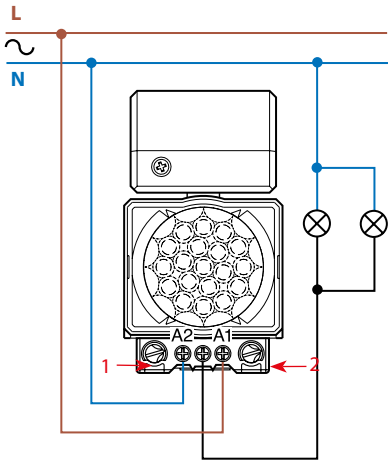
Insulation						
Dielectric strength between open contacts			V AC	1000 (except for type 18.91 TRIAC output)		
Between supply and contact			V AC	1500 (types 18.21…0300, 18.31…0300, 18.41, 1851, 18.61)		
EMC specifications						
Type of test		**Reference standard**				
Electrostatic discharge	contact discharge	EN 61000-4-2		4 kV		
	air discharge	EN 61000-4-2		8 kV		
Radiated electromagnetic field (80…2000 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 (2 kV for 18.91)		
	differential mode	EN 61000-4-5		4 kV (2.5 kV for 18.01/11, 1 kV for 18.91)		
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…1000)MHz	EN 55014		class B		
Terminals				**18.01, 18.11, 18.21, 18.31,18.91**		**18.41, 18.51, 18.51…B300, 18.61, 18.A1**
Type				Screw terminal		Push-in (see pag. 18)
Screw torque			Nm	0.5		—
Max. wire size				solid cable	stranded cable	solid cable	stranded cable
			mm^2	1 x 6 / 2 x 4	1 x 4 / 2 x 2.5	2.5	2.5
			AWG	1 x 10 / 2 x 12	1 x 12 / 2 x 14	14	14
Wire strip length			mm	9	9	8	8
Other data						
Power lost to the environment	without output current		W	0.3		
	with rated output current		W	1.4		

Following the initial power-on, and power-on following a power interruption, the detector makes a hardware-software initialisation for approximately 30 seconds.
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.

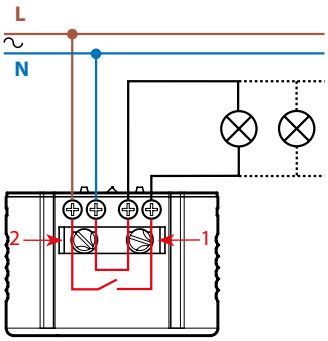
J

Wiring diagram

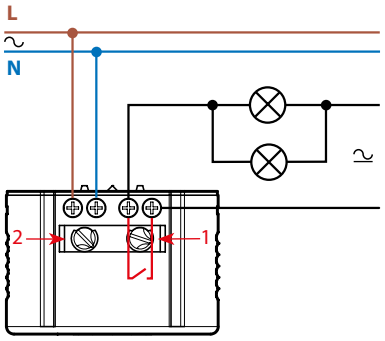
Type 18.01/18.11



Type 18.21/18.31/18.31…0031

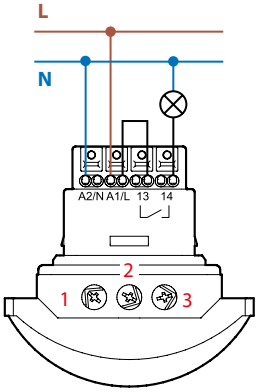


Type 18.21-0300/18.31-0300

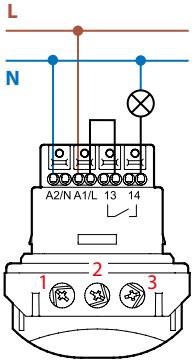


1 = ambient light intervention threshold
2 = light ON time following last detection

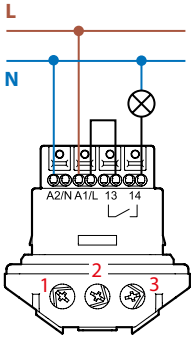
Type 18.41



Type 18.51/18.51-B300



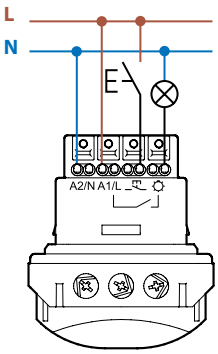
Type 18.61



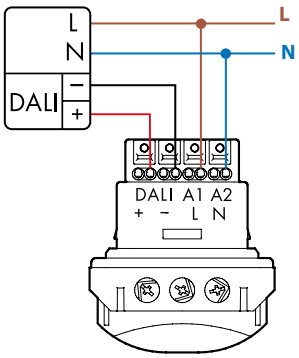
1 = light ON time following last detection
2 = sensitivity setting
3 = ambient light intervention threshold
Note: not for 18.51…B300

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.

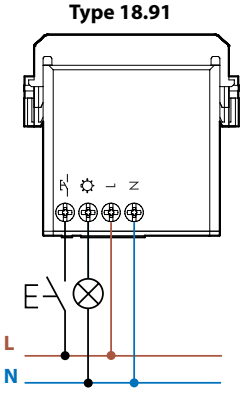
Type 18.51…0040



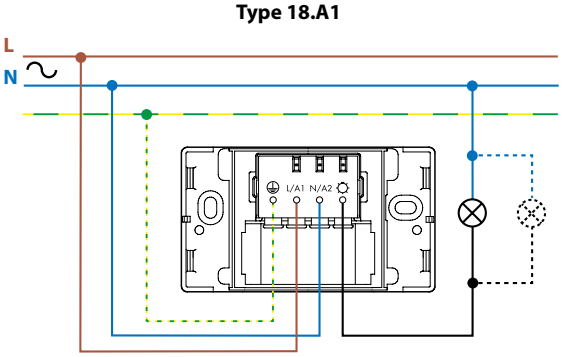
Type 18.5D



Type 18.91

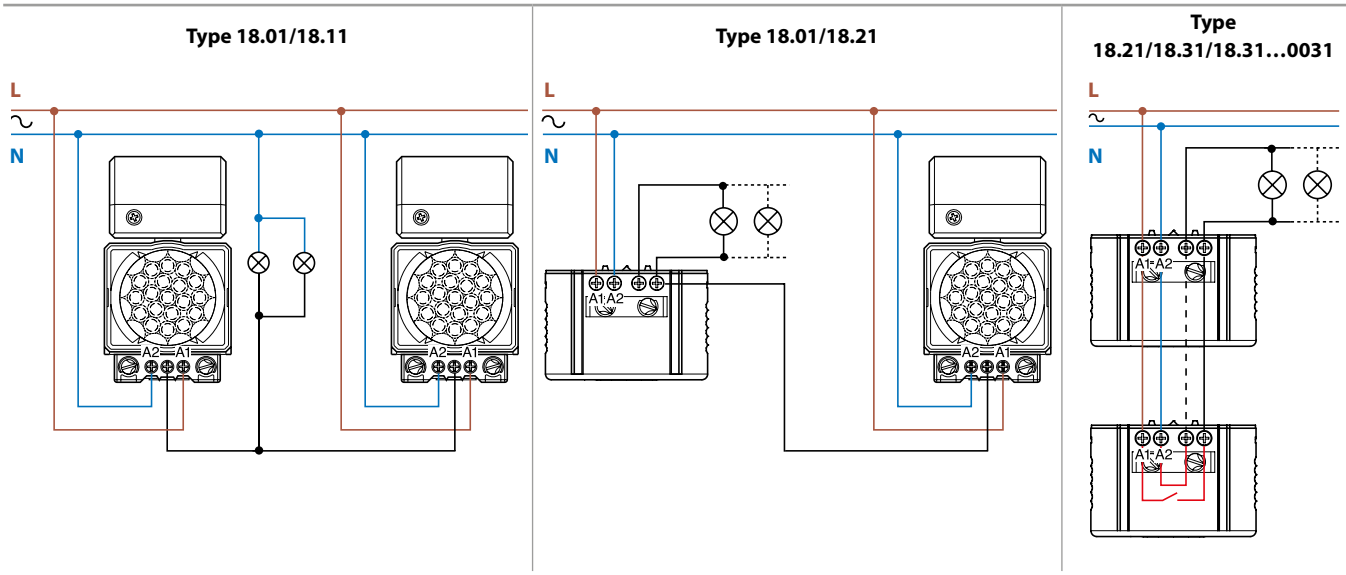


Type 18.A1



VII-2019, www.findernet.com

Wiring diagram



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.

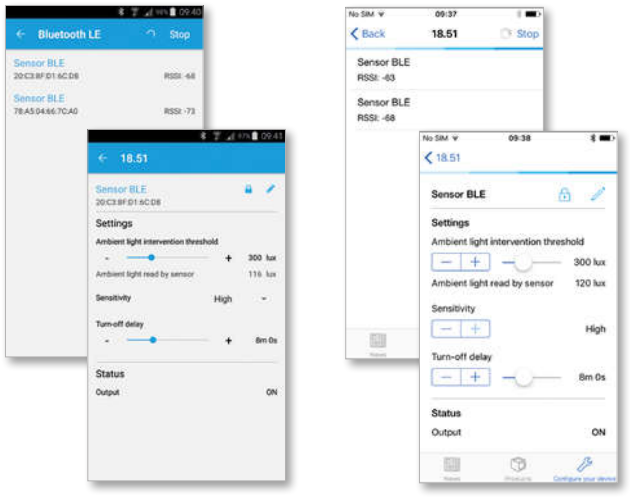
After installing the 18.51, simply download the Free **App Finder Toolbox** from Google and Apple's official stores and set all the required parameters.

PLUS
finder
Finder Toolbox

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.

GET IT ON Google Play

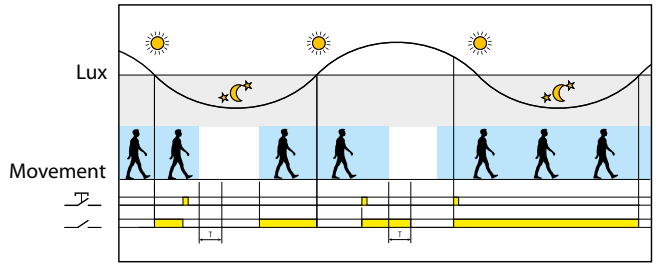
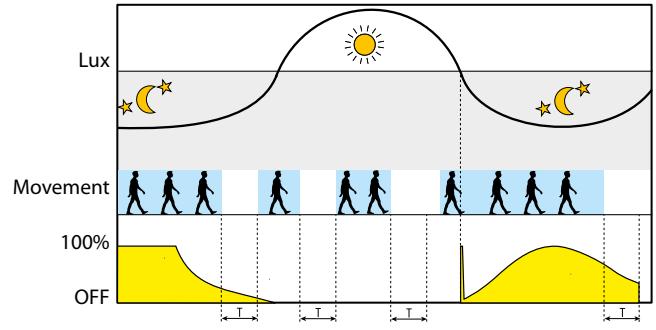
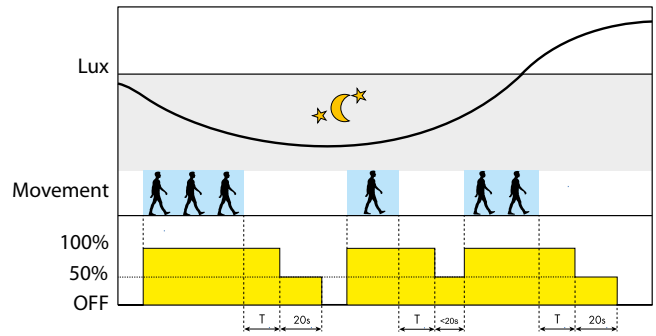
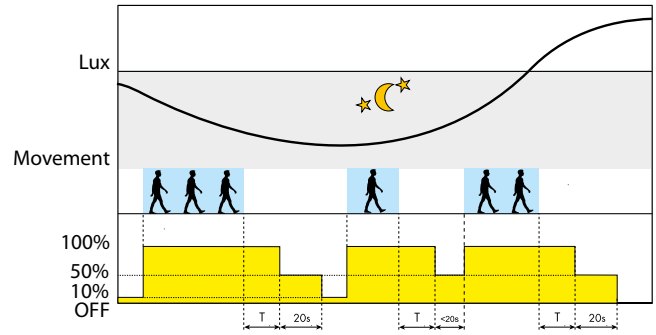
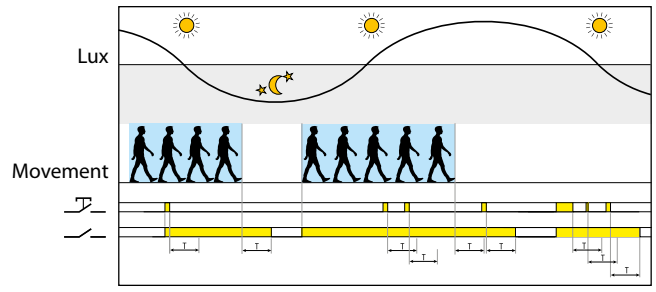
Download on the App Store



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.

J

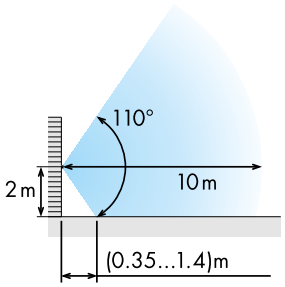
Functions

Type	Functions
18.51…0040	 **Push-button function** 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** By incorporating Finder's Patented "light feedback compensation" principle, the 18.51…0040 is 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.
18.91	 **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.

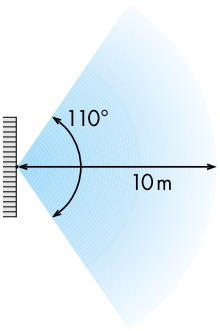
VII-2019, www.findernet.com

Sensing area

18.01, 18.11, 18.A1 - Wall mounting

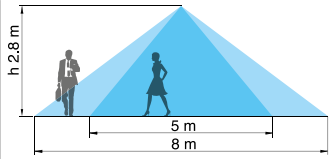


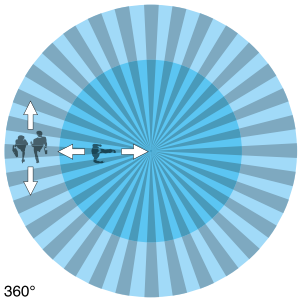
Side view



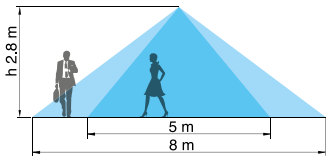
Plan view

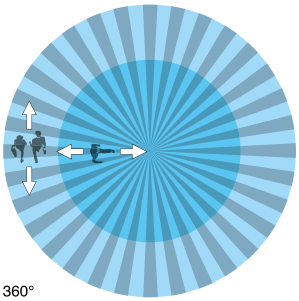
18.01, 18.11 - Ceiling mounting



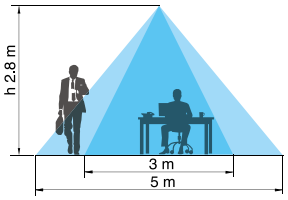


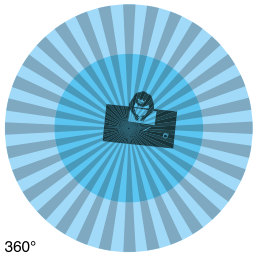
18.21, 18.31 - Ceiling mounting





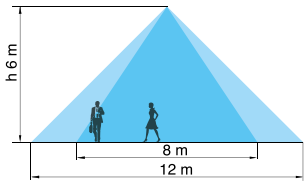
18.31...0031 - Internal ceiling installation, surface mounting

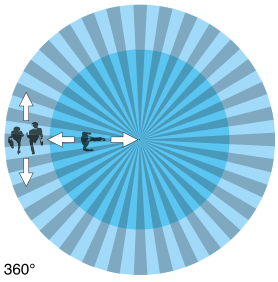




Movement and presence detector

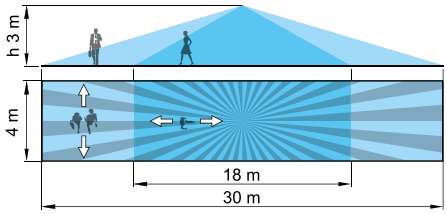
18.31...0031 - High ceilings installations



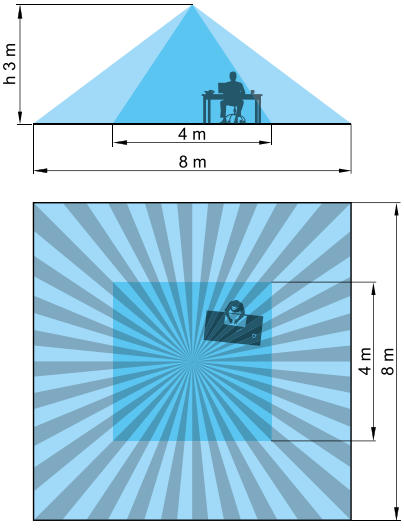


For applications with high ceilings (up to 6 meters)

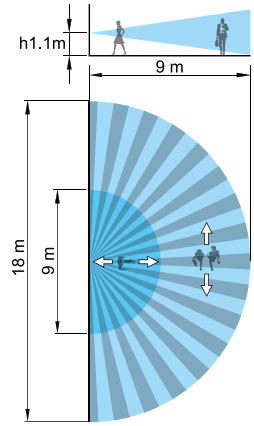
18.41/18.4K



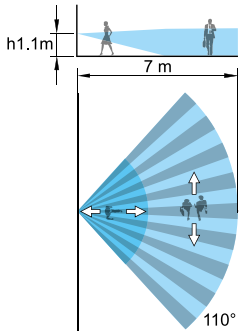
18.51/18.51...B300/18.5K



18.61

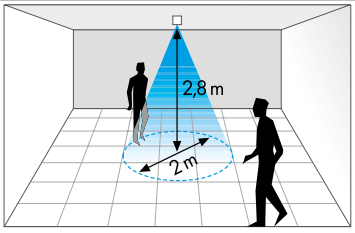


18.91



Accessories





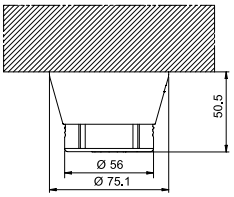
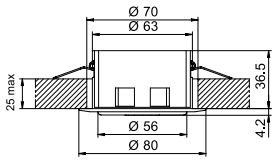
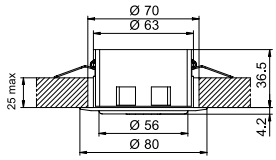
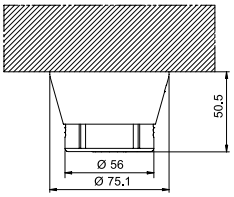
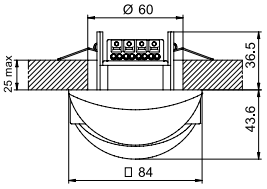
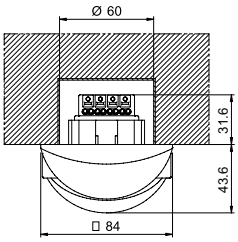
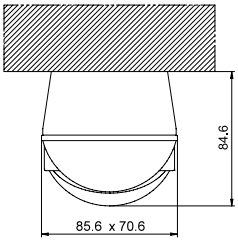
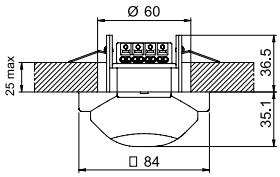
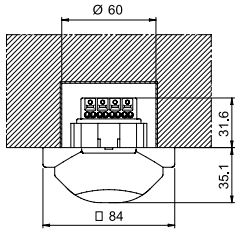
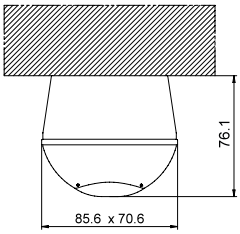
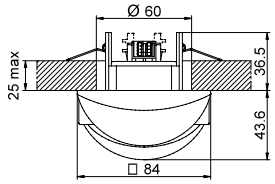
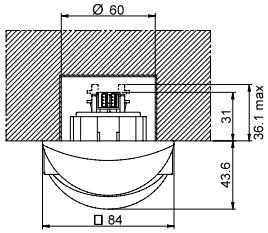
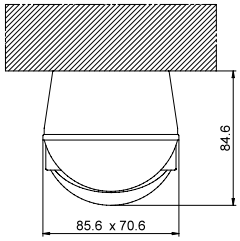
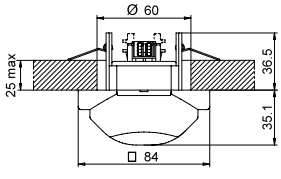
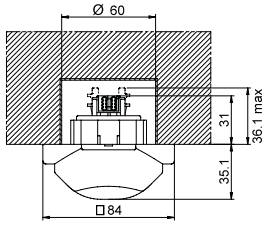
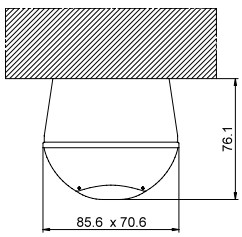
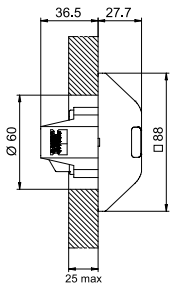
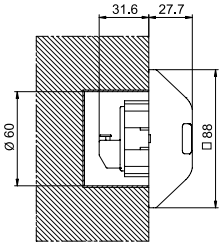
Example: 18.21/18.31 with Beam limiter

Beam limiter (supplied with the types 18.21/31/41/51)

At an installation height of 2.8 meters the area of survey will reduce at:
18.21/18.31: diameter 2 meters
18.41: 2.5 x 6 meters
18.51: 2 x 2 meters

J

Outline drawings

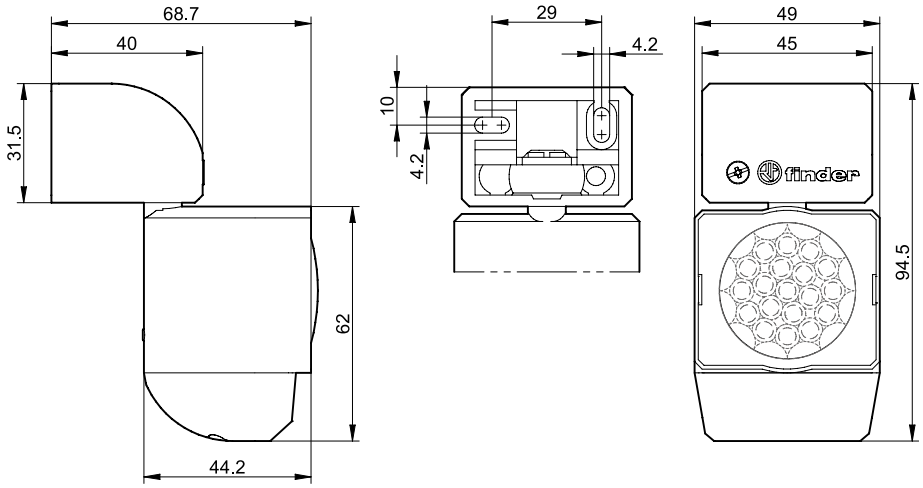
Type	Suspended ceiling mounting	Recess mounting	Surface mounting
18.21			
18.31			
18.31…0031			
18.41			
18.51 **18.5D** **18.51…B300**			
18.4K			
18.5K			
18.61			

J

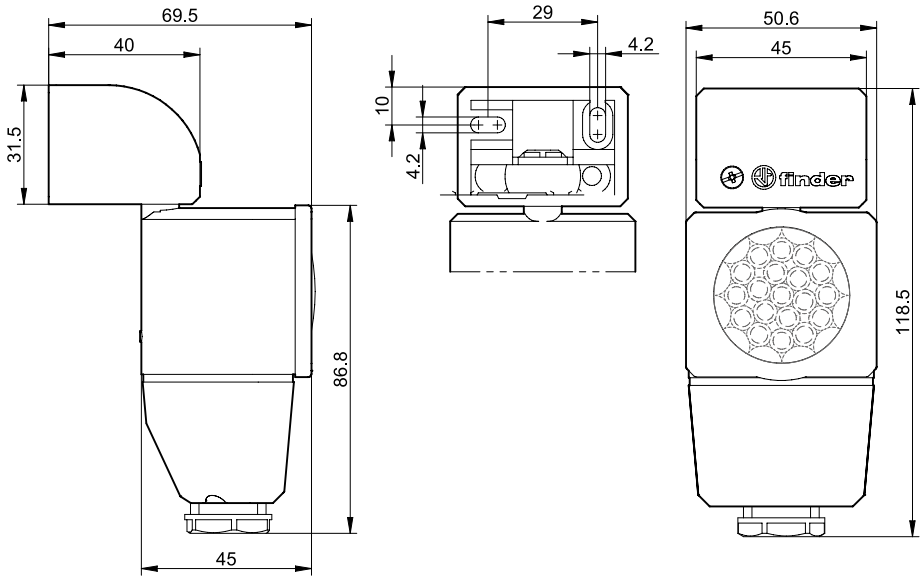
VII-2019, www.findernet.com

Outline drawings

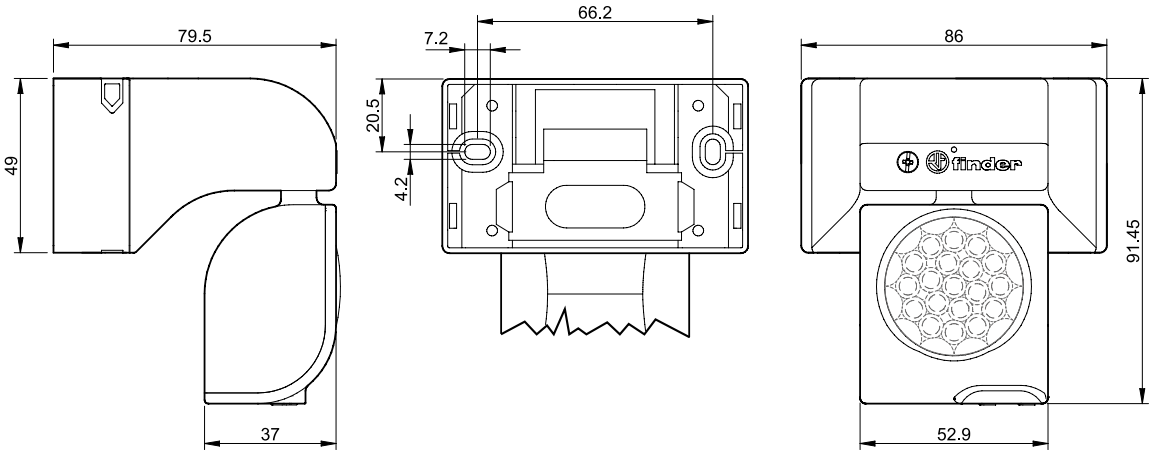
Type 18.01



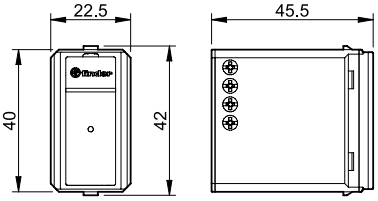
Type 18.11



Type 18.A1

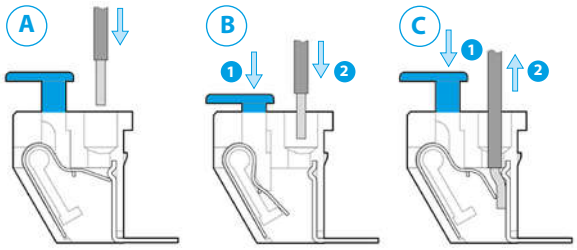


Type 18.91



Push-in terminals for 18.41, 18.51, 18.5D, 18.61 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 mm^2.

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

J