



Zenit Collection

The highlight of modular ranges

Zenit

The highlight of modular ranges





Zenit is the most comprehensive modular range for all kind of homes and commercial facilities. A number of appreciated design and beautiful finishes that add value to the facility, with advanced features that provide greater comfort and performance level. With Zenit we can enjoy technical advances that make the installation easier and faster. You can make any type of installation only with Zenit.

The top in design and performance

For its aesthetic and details

Zenit is born with a high-rise design. With rectilinear lines, very trendy finishes and full of details that enhance its aesthetics. It reaches the highest levels in quality and infinite values.



Zenit offers great flexibility to be installed in homes and hotels and commercial stores, on the surface, in electrification systems.

The mechanisms incorporate new technical advances, making them the easiest to install.

With a comprehensive range of more than 60 functions.

A perfect fit between the frame and the switch. No unsightly gaps that cause rolling and knocking of the mechanism against the frame. Enough space to allow free pulsation and proper functioning of the mechanism.

Zenit, the first Ecodesign certified series

Zenit has been designed under the Environmental Management Standards of Product Design and Development Process: Ecodesign.

Internationally recognized certificate awarded to the product that was developed taking into account the lowest environmental impact at every stage, from procurement of raw materials through the manufacturing process until the product waste.

Styling elements

The styling elements can be opaque, in Champagne, Anthracite or White color or translucent Green for night display switches.



Symbols



Room service



Nurse



Fan



WC



Key



Light point



Simple, elegant and easy to fit in places of any style and color. Amazing finishes such as glass, wood, stainless steel, slate. Pure materials that provide more value and beauty to your decorations. Three Zamak Frames complete the range in their Pearl White, Silk Black and Antique Steel finishes.



The frames for rectangular boxes with three and four modules are also available with all finishes:
 Anthracite, Champagne, Silver, White, Black Glass, Stainless Steel, Slate, Wenge, White Glass, Pearl White, Silk Black and Antique Steel.



Hotels, restaurants, pubs and coffee shops, stores, offices, hairdressers, gyms, schools, clinics, museums... and, of course, homes.



1 module rotary Dimmer which allows regulating the lamp light intensity and to create ambient lighting for each occasion.



Electronic switch for blinds to centralize blinds by changing the opening/closing process from more than one point.



Movement detector in corridors, staircases, bathrooms, halls, etc.



Card switches: mechanic and time delay, the latter includes potentiometer to establish the light lasting time after removing the card.

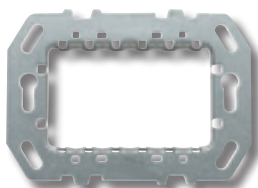
Functions for all spaces

Zenit can be installed everywhere, in spaces that require new solutions, with new applications and all installation facilities.



New solutions

- The Zenit rocker mechanisms are 16 A and they offer top quality with a reduced number of reference to stock.
- More robust and compact mechanisms to be inserted from the front.
- Designed to hold the switches firmly avoiding balancing problems.
- They have reduced depth, only 21 mm, which allows more connection space for wires.
- With larger press clamps and smoother to make the automatic connection more comfortable and safer.
- They have been manufactured with high quality and recyclable material.
- Contacts with automatic connection terminal of easy installation providing up to 40% savings in installation time.



More benefits

- Galvanized Steel mounting plates with unique anti-corrosion treatment with top and bottom nerves for a rigid positioning of the mechanism.
- The mounting plate is supplied separately from the frame in order to create the atmosphere you want.
- Zenit mechanisms are designed so they can be removed from the front.
- Galvanized steel metal mounting plate to ensure the durability of the installation.



Less consumption

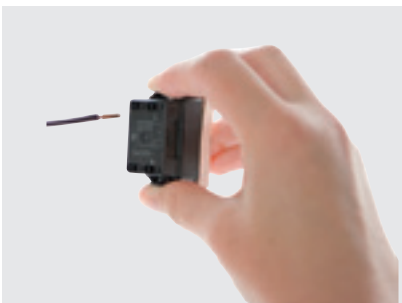
- The covers are easily removed to change the lighting pilot facilitating the installation from the front.
- In Zenit we have replaced our traditional neon pilot for a LED located in the horizontal display that emits a diffused light; it looks more attractive; it consumes less energy and lasts 10 years.



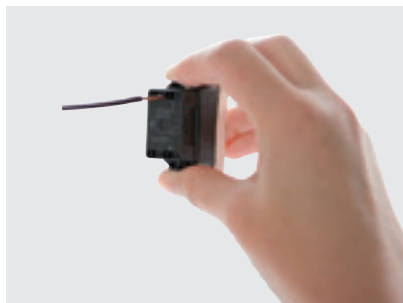
More protection

The Zenit series contacts include Child Protection in all its electrical outlets complying with IEC-608841:2006 standard.

Automatic connection



1. Strip the cable about 14 mm and introduce it into the terminal.



2. Press the push button and insert the cable.



3. Release the push button and check fixation
To disconnect the cord, press again the push button on top and bottom.

01



02



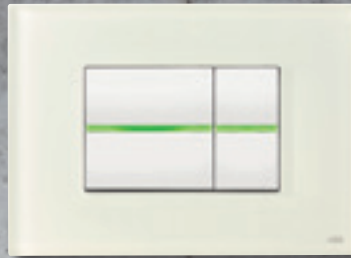
03



04



05



06



07



08



09



10



11



12



Zenit

Do you want a range with exclusive design and fine finishes that add value to your installations?

Do you want to benefit from advanced functions that provide enhanced comfort and more features?

Do you want to enjoy technical advances that make installation easier and faster?

Do you want to be able to execute any installation with a single range?

Do you want the guarantee of a brand renowned for its quality such as ABB?

If you want all of this, you've got it with ZENIT.

The most comprehensive modular range for all kinds of housing and commercial sector applications.

01 White

02 Silver

03 Stainless Steel Frame - Anthracite Switches

04 Anthracite

05 White Glass Frame - White Switches

06 Slate Frame - Silver Switches

07 Champagne Frame - White Switches

08 Black Glass Frame - Silver Switches

09 Wenge Frame - Silver Switches

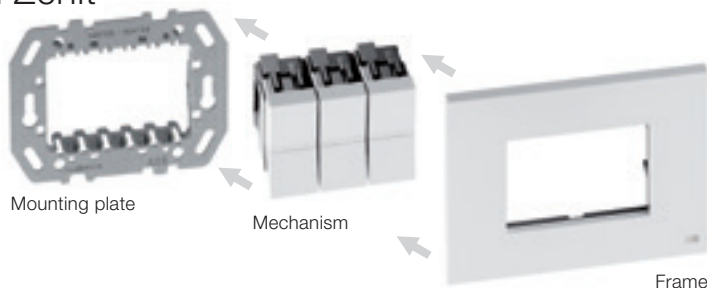
10 Pearl White Frame - White Switches

11 Silk Black Frame - Silver Switches

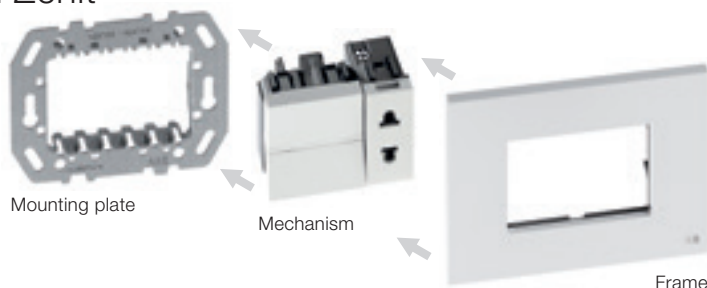
12 Antique Steel Frame - Anthracite Switches

Insertable mechanisms							Frames, mounting plates and flush mounting boxes	
1 module mechanisms N2100		2 modules mechanisms N2200			1,5 mod. mec. N2800			
Switches								For American flush mounting boxes
								Frame rectangular 1M N2371.1 Frame rectangular 2M N2372.1 Frame rectangular 3M N2373.1
								For american standard box N2373.9
								American box 499.3
Kit concept	Lamp with kit	LED Kit Switch-button 1 M N2191 VD		LED Kit Stair switch - 4-ways switch 1 M N2192 RJ		LED Kit Switch-button 1.5, 2 y 3 M N2191 VD		For 4 modules 4 modules frame N2374.1 4 modules mounting plate N2374.9 4 modules box 1499.4 For European flush mounting boxes
	Switch beams	1 M N2170		2 M N2270		1.5 M N2870		
	Symbols	Key prepared for symbol 1 M N2101.9 Symbols: - Key N2004.1 - Fan N2004.2 - Toilets N2004.3		- Room service N2004.4 - Nurse N2004.5 - Point N2004.6		Key prepared for symbol 2 M N2201.9 Various Signs N2281.1 Screw N2071.1		
Socket outlets								For 4 modules 4 modules frame N2374.1 4 modules mounting plate N2374.9 4 modules box 1499.4 For European flush mounting boxes
	Various							
Telecommunications								
						2+2+2 frame modules N2273 2+2+2+2 frame modules N2274		
Electronics						Metal mounting plate with clamps N2271.9G		
	Sign N2180 BL, RJ, VD					Simple and double for European standard N2271.9 and N2272.9		
Sound system						Clamps accessories N2071.8 Elastic clamps N2071.9		
						Flush mounting box VDE 1199		
KNX						Surface mounted boxes furniture		
	Surface mounted boxes							
Surface mounted boxes	2 M N2991.1		1 y 2 M N2991		Tube adapter N2999		Frame and box 1 frame N2671 Frame and box 2 frames N2671.2	
	3 M N2993		4 M N2994		Support 2 modules N2692			
Waterproof Boxes	2 modules box N3291		3 modules box N3391		4 modules box N3292		Frame and box 1 frame, 2 modules N2672	
	6 modules box N3293		2 modules box N3291.1		3 modules box N3391.1			
4 modules box N3292.1		6 modules box N3293.1						

Modular Composition Zenit Switch



Modular Composition Zenit Socket outlet



Insertable mechanisms 1 module



- All rocker mechanisms are 16 A and offer maximum quality with a reduced number of references.
- They are robust, hard and compact; and can be inserted from the front of the plate.
- They are designed to hold the covers firmly avoiding balancing problems.
- They have a reduced depth, only 21 mm, which allows more connection space for wires.
- Designed with larger press clamps to make a smoother and more comfortable automatic connection for the installer.
- They have been manufactured with high quality and recyclable material.
- The rocker cover can be easily removed to replace the lamp from the front end.

Rocker switches



Description	Code	Technical Data
Rocker switch 1P	N2101	BL 16 AX ; 127 - 230 V~ AN Lit with LED ref. PL N2191.1 (127 V~) / CV N2191 (230 V~)
Rocker switch 2P	N2101.2	BL 16 AX ; 127 - 230 V~ AN Lit with LED ref. PL N2192.1 (127 V~) / CV N2192 / N2192 (230 V~)
Rocker switch 2-way	N2102	BL 16 AX ; 127 - 230 V~ AN Lit with LED ref. PL N2192.1 (127 V~) / CV N2192 (230 V~)
Intermediate switch	N2110	BL 16 AX ; 127 - 230 V~ AN Lit with LED ref. PL N2192.1 (127 V~) / CV N2192 (230 V~)

Push buttons



Description	Code	Technical Data
Push button with bell symbol	N2104	BL 16 AX ; 127 - 230 V~ AN Lit with LED ref. PL N2191.1 (127 V~) / CV N2191 (230 V~)
Push button with light symbol	N2104.2	BL 16 AX ; 127 - 230 V~ AN Lit with LED ref. PL N2191.1 (127 V~) / CV N2191 (230 V~)

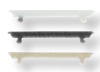
Zenit

Push buttons



Description	Code	Technical Data
Normally closed without engraved symbol	N2104.6 BL AN PL CV	16 AX ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)
Push button without engraved symbol	N2104.7 BL AN PL CV	16 AX ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)

Styling elements



Description	Code	Technical Data
Styling elements for rocker 1 module	N2170 BL AN CV	Adjustable to the rockers N2101.X, N2102.X, N2110 and N2104.X.

Symbols



Description	Code	Technical Data
Rocker	N2101.9 BL AN PL CV	Adjusted to the symbols N2004.X. Valid for the mechanisms N2101.X, N2102.X, N2110 and N2104.X. To be placed in the rocker N2X01.9X
Key symbol	N2004.1	
Fan symbol	N2004.2	
WC symbol	N2004.3	
Room service symbol	N2004.4	
Nurse symbol	N2004.5	
Point symbol	N2004.6	

Various



Description	Code	Technical Data
Blanking Plate	N2100 BL AN PL CV	



Description	Code	Technical Data
Cable Outlet	N2107 BL AN PL CV	With cable supporting flange.

Dimmers



Description	Code	Technical Data
Rotary Dimmer	N2160.E BL AN PL CV	230 V~ ; 50 Hz. ⊕: 60 - 500 W Overload and short circuit protection by means of a thermal fuse not rearmable.



Description	Code	Technical Data
Fuse Holder	N2108 BL AN PL CV	16 A ; 230 V~ For calibrated fuses. Dimension: Ø 6 x 24 mm.

LED lamps



Descripción	Código	Datos Técnicos
LED Illumination Kit for Rocker Switches 1P and Push buttons	N2191 VD	230 V~ ; 50 Hz White color with a green label at the front. Automatic connection. Supplied with 1 module and 2 modules indicator lamp.
LED Illumination Kit for 2-way Rocker Switches, 2P and intermediate	N2192 RJ	230 V~ ; 50 Hz White color with a red label at the front. Automatic connection. Supplied with 1 module and 2 modules indicator lamp.



Description	Code	Technical Data
Buzzer	N2119 BL AN PL CV	127 - 230 V~ ; 8 VA With screw to adjust sound volume. Acoustic power to 1 m distance: 75 dB

Pullcord switch



Descripción	Code	Technical Data
Pullcord Switch	N2148 BL	16 A ; 230 V~ Length of the cord: 1 m.

USB Charger



Description	Code	Technical Data
USB charging socket	N2185 BL AN PL CV	Voltage / Frequency of exposure: 100 - 240 V, AC ± 10 %, 50 - 60 Hz 0,12 Aca@ max load. Standby consumption: 230 V AC: <=0,3 W. Voltage / Current output: 5V DC +5/-5% 750mA a 5V DC. Operating temperature: 0° C - + 45° C.

Bases of socket outlets



Description	Code	Technical Data
2P + T socket outlet Nema type	N2128 BL AN PL	16 A ; 127 V~ With childproof protection Protection class: IP21



Description	Code	Technical Data
TV simple plug	N2150.7 BL AN PL CV	Socket for installation in star connection (without resistance EOL).



Description	Code	Technical Data
2P+T Italian type	N2133 BL AN PL	16 A ; 127 V~ - 250 V~ ; 50 Hz - 60 Hz With childproof protection



Description	Code	Technical Data
Coaxial outlet TV	N2150 BL AN PL CV	Threaded connector. F type.



Description	Code	Technical Data
Socket Outlet 2P Euro-American	N2135 BL AN PL CV	16 A ; 230 V~



Description	Code	Technical Data
Telephone outlet with 6 contacts	N2117.6 BL AN PL CV	RJ 12 with 6 contacts. Valid for connector with 2, 4 and 6 contacts. In compliance with RD 279/1999 (ICT): Outlet for the Base of Access Terminal (BAT).

Data and telephone outlets



Description	Code	Technical Data
Adapter RJ45 Category 5E	2018	For connectors of type KEYSTONE, AMP, BRAND-REX, OPENET-ICS, THT LEVITON, KRONE Adapter valid for cover plate ref. N2118.1
Adapter RJ45 Category 5E	2018.8	Avaya Lucent-Technologies (AT&T) Adapter valid for cover plate ref. N2118.1
Universal data connection box RJ45, 8 contacts Category 5E (improved) UTP	2018.5	Frequency rate: 1 - 160 MHz Transmission rate: 1,2 Gb/sec. In compliance with ISO 11801 Draft In compliance with FCC part 68 subpart F and IEC60603-7-2. Connection and dimension drawing, see appendix. Adapter valid for cover plate ref. N2118.1
Universal Data Connection Box RJ45, 8 contacts Category 6 UTP	2018.6	Frequency rate: 1 - 300 MHz Transmission rate: 4,8 Gb/sec. In compliance with ISO 11801 Draft In compliance with FCC parte 68 subparte F and IEC60603-7-3. Connection and dimension drawing, see appendix. Adapter valid for cover plate ref. N2118.1



Description	Code	Technical Data
Cover plate 1-gang for telephone sockets ref. 2018, 2018.5, 2018.6, 2018.8	N2118.1	BL AN PL CV

Insertable mechanisms 1,5 modules

- The Zenit insertable 16A mechanisms offer top quality with the minimum number of stock items.
- Robust and compact, they are inserted from the front.
- Designed to hold the covers firmly and avoid unwanted movement.
- Shallower, only 21 mm depth, leaving more space for the connections.

Rockers switches



Description	Code	Technical Data
Rocker switch 1P	N2801	BL AN PL 16 A ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~)
Rocker switch 2-way	N2802	BL AN PL 16 A ; 127 - 230 V~ Lit with LED ref. N2192.1 (127 V~)
Intermediate switch	N2810	



Description	Code	Technical Data
Styling elements for rocker 1,5 modules	N2870	BL AN CV Adjustable to the rockers N2801.X, N2802.X, N2810 and N2804.X

Insertable mechanisms 2 modules



- All rocker mechanisms are 16 A and offer maximum quality with a reduced number of references.
- They are robust, hard and compact; and can be inserted from the front of the plate.
- They are designed to hold the covers firmly avoiding balancing problems.
- They have a reduced depth, only 21 mm, which allows more connection space for wires.
- Designed with larger press clamps to make a smoother and more comfortable automatic connection for the installer.
- They have been manufactured with high quality and recycable material.
- The rocker cover can be easily removed to replace the lamp from the front end.

Rocker switches



Description	Code	Technical Data
Rocker switch 1P	N2201 BL AN PL CV	16 AX ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)
Rocker switch 2P	N2201.2 BL AN PL CV	16 AX ; 127 - 230 V~ Lit with LED ref. N2192.1 (127 V~) / N2192 (230 V~)
Rocker switch 2-way	N2202 BL AN PL CV	16 AX ; 127 - 230 V~ Lit with LED ref. N2192.1 (127 V~) / N2192 (230 V~)
Intermediate switch	N2210 BL AN PL CV	16 AX ; 127 - 230 V~ Lit with LED ref. N2192.1 (127 V~) / N2192 (230 V~)

Push buttons



Description	Code	Technical Data
Push button with bell symbol	N2204 BL AN PL CV	16 A ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)
Push button with light symbol	N2204.2 BL AN PL CV	16 A ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)



Description	Code	Technical Data
Normally closed without engraved symbol	N2204.6 BL AN PL CV	16 A ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)
Push button without engraved symbol	N2204.7 BL AN PL CV	16 A ; 127 - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)

Zenit

Dimmers



Natural light is not the same in winter as it is in summertime, not even just in the morning than in the afternoon. We do not need the same amount of light to read a book, as to watch television. Our lighting varies when we work in the office or make a presentation. Light intensity must be able to adapt to our needs in the moment. It has to be adapted in conjunction with natural light to be useful in all instances.

This is why ABB offers the most comprehensive range of dimmers in the market.



Description	Code	Technical Data
Push dimmer	N2260 BL AN PL CV	230 V~ ; 50 Hz 127 V~ ; 60 Hz ☼: 40 - 450 W ☼☼: 40 - 400 VA With remote control terminal for conventional push buttons (N2X04.5) and orientation lamp. In compliance with(N2X04.5) EN 50081-1, EN 50082-1



Description	Code	Technical Data
Rotary/Push dimmer	N2260.2 BL AN PL CV	230 V~ ; 50 Hz ☼: 60 - 500 W ☼☼: 60 - 400 VA ☼☼☼: 60 - 500 VA Possibility to control the light intensity with rotary and push action. With remote control terminal for conventional push buttons (N2X04.5). Orientation lamp. Overload and short-circuit protection.



Description	Code	Technical Data
Push dimmer	N2260.1 BL AN PL CV	230 V~ ; 50 Hz ☼: 60 - 500 W ☼☼: 60 - 400 VA ☼☼☼: 60 - 500 VA With remote control terminal for conventional push buttons (N2X04.5). Orientation lamp. Overload and short-circuit protection.

Description	Code	Technical Data
Rotary dimmer for fluorescent	N2260.9 BL AN PL CV	230 V~ ; 50 Hz ↔: 700 VA for controlling electronic control gears for fluorescent lamps with control output 0/1-10 V DC. Maximum current to control electronic gears: 50 m A DC Orientation lamp. Overload and short-circuit protection.



Description	Code	Technical Data
Rotary dimmer	N2160.E BL AN PL CV	230 V~ ; 50 Hz ☼: 60 - 500 W Overload and short circuit protection by means of a thermal fuse not rearmable.

Movement detector




Description	Code	Technical Data
Movement detector	N2241 BL AN PL CV	230 V~ ; 50 Hz / 127 V~ ; 60 Hz ☼: 1.800 W / 1.000 W ☼☼: 750 VA / 400 VA ↔ (M) 400 VA / 200 VA Output potential-free relay: 2 terminals. Control through auxiliary buttons (N2X04). Adjustable brightness. Disconnection delay: 10 sec - 10 min. Detection range: max 5 m., angle 110° Front selector for operating mode (always ON, Automatic, always OFF).

Time delay switch










Control your lighting with Zenit time delay switches.




Thanks to their remote control function, you can also control this time delay from simple buttons that have the auxiliary control function.

Description	Code	Technical Data
 Time delay switch	N2262 BL AN PL CV	230 V~ ; 50 Hz 127 V~ ; 60 Hz Time delay from 9 sec to 240 sec. Maximum power: ⚡ 1000 W / 600 W ⚡ 1000 VA cos φ = 0,6 600 VA cos φ = 0,6 ↔ 650 VA / 400 VA For fluorescent lamps. Fuse protection T-5A With remote control terminal for conventional push buttons (N2X04.5) and orientation lamp. Connection and dimension drawing, see appendix.
Time delay switch of Triac	N2262.1 BL AN PL CV	230 V~ ; 50 Hz 127 V~ ; 60 Hz Time delay range from 10 sec to 10 min. Maximum power: ⚡ 40 - 500 W ⚡ 40 - 400 VA Small power motors 40 - 100 VA. Orientation lamp.

Symbols

Description	Code	Technical Data
 Rocker	N2201.9 BL AN PL CV	Adjusted to the symbols N2004.X. Valid for the mechanisms N2201.X, N2202.X, N2110 and N2204.X.
 Key symbol	N2004.1	To be placed in the rocker N2x01.9X
 Fan symbol	N2004.2	To be placed in the rocker N2x01.9X
 WC symbol	N2004.3	To be placed in the rocker N2x01.9X
 Room service symbol	N2004.4	To be placed in the rocker N2x01.9X
 Nurse symbol	N2004.5	To be placed in the rocker N2x01.9X
 Point symbol	N2004.6	To be placed in the rocker N2x01.9X

Card switches

Description	Code	Technical Data
 Card switch	N2214.1 BL AN PL CV	16 AX ; 127 - 230 V~ LED included: ref. N2193 NG for 230 V~ Valid for cards of 4 mm width.
 Spare LED green lamp for card switches	N2193 NG	0,7 mA a 230 V~ The lamp can be replaced from the front of the card switch ref. N2214.1. XX
 Electric card time delay switch. Included orientation LED	N2214.5 BL AN PL CV	⚡ ⚡ ⚡ ⚡ ⚡ 230 V~ ; 50 Hz max. power 3000 VA 127 V~ ; 60 Hz max. power 1600 VA ↔ 230 V~ ; 50 Hz max. power 1300 VA 127 V~ ; 60 Hz max. power 700 VA LED included Time delay from 5 sec. to 90 sec. Valid for cards of 54 mm width.

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Blind control



Description	Code	Technical Data
Push button for blinds	N2244 BL AN PL CV	16 AX ; 250 V~
Switch for blinds	N2244.1 BL AN PL CV	16 AX ; 250 V~



Description	Code	Technical Data
Electronic shutter switch	N2261.2 BL AN PL CV	230 V~ ; 50 Hz. Power: 700 VA. 127 V~ ; 60 Hz. Power: 350 VA. Temperature range: 0° C à 35° C. Protection class: IP20. Allows three modes of operation: 1) Shutter switch (P). 2) Blind dimmer (L). 3) Shutter centralization (C). Remote control terminals double button shutter (N2244).

Styling elements



Description	Code	Technical Data
Styling elements for rocker 2 modules	N2270 BL AN CV	Adjusted to the rockers N2201.X, N2202.X, N2210 and N2204.X.

Led lamps



Description	Code	Technical Data
LED Illumination Kit for Rocker Switches 1P and Push buttons	N2191 VD	230 V~ ; 50 Hz White color with a green label at the front. Automatic connection. Supplied with 1 module and 2 modules indicator lamp.
LED Illumination Kit for 2-way Rocker Switches, 2P and intermediate	N2192 RJ	230 V~ ; 50 Hz White color with a red label at the front. Automatic connection. Supplied with 1 module and 2 modules indicator lamp.



Socket outlets



Description	Code	Technical Data
SCHUKO socket outlet automatic	N2288.6 BL AN PL CV	16 A ; 230 V~ Screwless connection. Each clamp receives a flexible cable up to 2 x 2,5 mm ² or a rigid thread until 2 x 4 mm ² . Saving wiring time by up to 40%. With a safety system to avoid direct accidental contact. Protection class: IP21



Description	Code	Technical Data
SCHUKO socket outlet shuttered	N2288 BL AN PL CV	16 A ; 230 V~ With a safety system to avoid direct accidental contact. Protection class: IP21



Description	Code	Technical Data
SCHUKO socket outlet For special circuits shuttered	N2288 RJ	16 A ; 230 V~ With a safety system to avoid direct accidental contact. Protection class: IP21



Description	Code	Technical Data
SCHUKO socket outlet For special circuits shuttered	N2288 NA	16 A ; 230 V~ With a safety system to avoid direct accidental contact. Protection class: IP21



Description	Code	Technical Data
SCHUKO socket outlet with hinged lid shuttered	N2288.1 BL AN PL CV	16 A ; 230 V~ With a safety system to avoid direct accidental contact. Protection class: IP21 To be used in dirty environment.



Description	Code	Technical Data
Socket outlet 2P+T automatic	N2287.6 BL AN PL CV RJ	16 A ; 230 V~ Screwless connection. Each clamp receives a flexible cable up to 2 x 2,5 mm ² or a rigid thread until 2 x 4 mm ² . Saving wiring time by up to 40%. With a safety system to avoid direct accidental contact. Protection class: IP21

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Socket outlets



Description	Code	Technical Data
Socket outlet British Standard	N2237 BL AN PL	13 A ; 250 V~ Child protection.



Description	Code	Technical Data
Socket outlet 2P + T Euro American	N2238 BL AN PL	13 A ; 127 V~ Protection class: IP21



Description	Code	Technical Data
Universal socket	N2239 BL AN PL	13 A ; 220 V 15 A ; 127 V Child protection.

Various



Description	Code	Technical Data
Blanking plate	N2200 BL AN PL CV	



Description	Code	Technical Data
Cable outlet	N2207 BL AN PL CV	With cable supporting flange.



Description	Code	Technical Data
Fuse Holder	N2208 BL AN PL CV	16 A ; 230 V~ For calibrated fuses. Dimension: Ø 6 x 24 mm.

Various



Description	Code	Technical Data
Buzzer	N2219 BL AN PL CV	127 - 230 V~ ; 8 VA. With screw to adjust sound volume. Acoustic power to 1 m distance: 76 dB.



Description	Code	Technical Data
Electronic Bell	N2224 BL AN PL CV	230 V~ 4 melodies. Acoustic power to 1 m distance, with mounted plate: 72 dB

USB Charger



Description	Code	Technical Data
USB charging socket	N2285 BL AN PL CV	Voltage / Frequency of exposure: 100 - 240 V, AC ± 10 %, 50 - 60 Hz 0,20 Aca@ max load. Standby consumption: 230 V AC: <=0,3 W. Voltage / Current output: 5V DC +5/-5% 1500mA a 5V DC. Operating temperature: 0° C - + 35° C.

Telecommunication outlets





Description	Code	Technical Data
TV Socket terminal	N2250.7 BL AN PL CV	Socket for installation in star connection (without terminating resistance)



Description	Code	Technical Data
TV-R / SAT Socket modular simple	N2251.3 BL AN PL CV	Socket for installation in star connection (without terminating resistor).


Telecommunication outlets


Description	Code	Technical Data
 <p>TV-R / SAT Socket modular dead end feeder</p>	N2251.7 BL AN PL CV	Socket for installation in series or parallel connection.


Description	Code	Technical Data
 <p>TV-R / SAT Socket modular loop through-type</p>	N2251.8 BL AN PL CV	Socket for installation in series or parallel connection.

Data and telephone outlets

Description	Code	Technical Data
 <p>Adapter RJ45 Category 5E</p>	2018	For connectors of type KEYSTONE, AMP, BRAND-REX, OPENET-ICS, THT LEVITON, KRONE Adapter valid for cover plate ref. N2118.1
 <p>Adapter RJ45 Category 5E</p>	2018.8	Avaya Lucent-Technologies (AT&T) Adapter valid for cover plate ref. N2118.1
 <p>Universal data connection box RJ45, 8 contacts Category 5E (improved) UTP</p>	2018.5	Frequency rate: 1 - 160 MHz Transmission rate: 1,2 Gb/sec. In compliance with ISO 11801 Draft In compliance with FCC part 68 subpart F and IEC60603-7-2. Connection and dimension drawing, see appendix. Adapter valid for cover plate ref. N2118.1
 <p>Universal data connection box RJ45, 8 contacts Category 6 UTP</p>	2018.6	Frequency rate: 1 - 300 MHz Transmission rate: 4,8 Gb/sec. In compliance with ISO 11801 Draft In compliance with FCC parte 68 subparte F and IEC60603-7-3. Connection and dimension drawing, see appendix. Adapter valid for cover plate ref. N2118.1

Description	Code	Technical Data
 <p>Cover plate 1-gang for telephone connection ref. 2018, 2018.5, 2018.6, 2018.8</p>	N2218.1 BL AN PL CV	

Description	Code	Technical Data
 <p>Cover plate 2-gang for telephone connection ref. 2018, 2018.5, 2018.6, 2018.8</p>	N2218.2 BL AN PL CV	

Description	Code	Technical Data
 <p>Telephone Outlet with 6 contacts</p>	N2217.6 BL AN PL CV	RJ 12 with 6 contacts. Valid for connector with 2, 4 and 6 contacts. In compliance with RD 279/1999 (ICT): Outlet for the Base of Access Terminal (BAT).

Zenit Sound System

New generation of sound.
The best way for the music to be part of your home.



This complete range of functions allows you to enjoy your music with the best sound quality.

FM Radio with RDS receiver Bluetooth receiver, USB input, input / output minijack, and function wireless multiroom amplifier.

The Bluetooth receiver lets you enjoy your favorite music stored on your Smartphone, Tablet etc. from any corner of your home.

Multiroom system through which you can listen to music only in selected rooms or the whole house.

Sound System



Description	Code	Technical Data
FM stereo receiver with RDS	9368	Power supply: 230 V~ ; ±15% ; 50 - 60 Hz. Maximum power: 2+2 W; <1% distortion (16 W). Maximum power consumption: 100 mA. Impedance of the loudspeakers: 16 W (2+2 W audio).



Description	Code	Technical Data
Cover plate for ref. 9368, 9368.2	N2268	BL AN PL CV



Description	Code	Technical Data
Recessed remote control	9368.2	Power supply: 230 - 127 V~ ; ±15 % ; 50 - 60 Hz. Maximum consumption: 15 mA. Bluetooth®: Maximum distance (range) from the ceiling module 9368.1 to the user's Bluetooth® device: 10 m.



Description	Code	Technical Data
USB and Bluetooth® entry/exit module	9368.3	Powered by AUX socket: 9 V. Max consumption: 175 ~ 200 mA. Audio phones impedance: 16 ~ 600 W (25 + 25 mW audio phones).

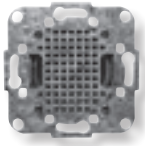


Description	Code	Technical Data
Cover plate for ref. 9368.3	N2268.3	BL AN PL CV



Description	Code	Technical Data
Bluetooth® ceiling radio/amplifier module	9368.1	Power supply: 230 - 127 V~ ; ±15% ; 50 - 60 Hz. Bluetooth®: Maximum distance (range) from ceiling module 9368.1 to the user's Bluetooth® device, 10 m. Max. consumption: 200 mA. Antenna impedance: 75 Ω. Loudspeakers maximum power output: 6+6 W, <1% distortion (4 Ω). Loudspeakers minimum impedance: 4 Ω (6+6 W audio).

Loudspeakers



Description	Code	Technical Data
Loudspeaker 2"	9329	Flush-mounting in universal box Max. Power: 2 W Speaker impedance: 16 Ω Response frequency: 170 Hz to 15 kHz Connection without screws. Mechanism valid for cover plates ref. N2229, 9399.4



Description	Code	Technical Data
Cover plate for loudspeaker 2" ref. 9329	N2229 BL AN PL CV	



Description	Code	Technical Data
Loudspeaker 5"	9329.1	Installation in flush box ref. 9399 drilling 175 mm or embedded ring ref. 9399.1 drilling 160 mm Max. Power: 6 W Impedance: 16 Ω Response frequency: 70 Hz to 10 kHz



Description	Code	Technical Data
Embedded ring	9399	



Description	Code	Technical Data
Flush box for loudspeaker 5"	9399.1	



Description	Code	Technical Data
Styling grid	9399.2 BA NG	

Zenit

Signalling system



The new range of light signal systems can cover all necessities for homes, public places, thus increasing people safety using a very carefully designed aesthetic. Functions:

- Signalling:

Signalling with a white LED light to allow passage, not to allow passage, exit indication etc. Its design is integrated in the Zenit range. The cover is tamper proof, via a small fix with 2 screws. It can be used with different icons.

- Selective Entry Pass:

Way indicator to restrict entry with a red or green light, created with LED technology. This can be installed with a two way switch to indicate entry authorization or deny access, and is part of the Zenit range.

- Beacon:

Self operated device with a rechargeable battery that guaranties the proper light indication in case of the loss of mains voltage below 70%. It can also operate as a beacon or courtesy light with a blue or white LED light. It is available in all ABB ranges and includes a new specific design for stairwells.



Signalling

Description	Code	Technical Data
LED Signalling		127 V~ ; 60 Hz 230 V~ ; 50 Hz Luminous flux > 2 lumen to 1 m. Illumination by LED.
LED white	N2180 BL	Suppression of interferences in compliance with UNE-21806 and EN-55014.
LED red	N2180 RJ	
LED green	N2180 VD	



Labels

Description	Code	Technical Data
Red LED Signalling / Do not disturb	N2180.4 BL AN PL CV	127 - 230 V~ ; 50 - 60 Hz Luminous flux 2 Lumen to 1 m. Illumination by LED. Suppression of interferences in compliance with UNE-21806 and EN-55014.
Green LED Signalling / Service	N2180.5 BL AN PL CV	127 - 230 V~ ; 50 - 60 Hz Luminous flux 2 Lumen to 1 m. Illumination by LED. Suppression of interferences in compliance with UNE-21806 and EN-55014.



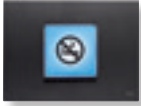

Description	Code	Technical Data
Service switch / Do not disturb	N2244.5 BL AN PL CV	250 V~ ; 16 A



Description	Code	Technical Data
LED Indicator Light 2 modules	N2280 BL	127 V~ ; 60 Hz 230 V~ ; 50 Hz Luminous flux > 2 lumen to 1 m. Illumination by LED. Suppression of interferences in compliance with UNE-21806 and EN-55014.



Signalling

Description	Code	Technical Data
 	N2281.1	Valid for mechanisms ref. N2280BL, N2280.2 RJ/VD and N2281BL

Emergency lightning

Zenit emergency lightning has 3 operating modes: Offer two types of mechanisms, one for each of our catalogue lines and a flush mounted stairwell option. They have three functions:



- Courtesy light:

When the device is connected to the electricity main power, the signal LEDs will light in white or blue depending on the configuration selector at the back of the device.


- Beacon:

When the electricity tension is below 70%, the high brightness LEDs are fed by the batteries in the device. In this state the beacon can last for three hours.

- Stand-By:

By using a remote control connected to the device we can select a number of devices from the total installed, which will remain powered off during the loss of voltage. By this course of action we will preserve full battery power so it can be used if the electricity is down for a longer period of three hours.

The light signalling device can be used in public places to evacuate people to the exit point in the case of emergency. They are designed under the UNE 60598-2-22 standards and comply with all requirements for emergency lighting. It can be used according to RD 2816/82 (BOE 6/11/82) and MIE-BT0254, RD314/2006 and ITC-BT-28 of REBT 2002 for public spaces as a signal light.




Description	Code	Technical Data
	N2281 BL	127 V~ ; 60 Hz 230 V~ ; 50 Hz Luminous flux > 2 lumen to 1 m. Autonomy: 3 h 1 h at max. illumination and 2 h at lower illumination. Nickel-metal hydride battery (Ni-MH), minimal environmental impact in compliance with RD2816/1982 (Art. 15.2), RD314/2006 (DB-SU4), REBT 2002 (ITC-BT-28) and UNE-EN60598-2-22.


Insertable mechanisms 3 modules




- All rocker mechanisms are 16 A and offer maximum quality with a reduced number of references.
- They are robust, hard and compact; and can be inserted from the front of the plate.
- They are designed to hold the covers firmly avoiding balancing problems.
- They have a reduced depth, only 21 mm, which allows more connection space for wires.
- Designed with larger press clamps to make a smoother and more comfortable automatic connection for the installer.
- They have been manufactured with high quality and recycable material.
- The rocker cover can be easily removed to replace the lamp from the front end.

Styling elements

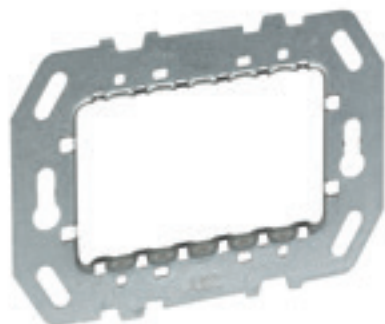
Description	Code	Technical Data
 Rocker switch 1P	N2301	BL AN PL 16 AX ; 127 V~ - 230 V~ Lit with LED ref. N2191.1 (127 V~) / N2191 (230 V~)
 Rocker switch 2P-way	N2302	BL AN PL 16 AX ; 127 V~ - 230 V~ Lit with LED ref. N2192.1 (127 V~) / N2192 (230 V~)
 Intermediate switch	N2310	BL AN PL 16 AX ; 127 V~ - 230 V~ Lit with LED ref. N2192.1 (127 V~) / N2192 (230 V~)

Description	Code	Technical Data
 Cover plate for 3 module rocker switch	N2370	BL AN CV Cover plates adaptable to the N2301.X, N2302.X, N2310.X, N2304.X rocker switches

Description	Code	Technical Data
 Push button with bell symbol	N2304	BL AN PL 16 A ; 127 V~ - 230 V~

KNX Zenit Range

KNX Switch Composition



Mounting plate



Frame



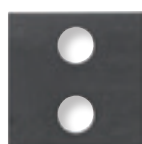
Mechanism



Cover plate



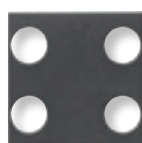
Description	Code	Technical Data
Push button KNX, 1/2 channels	6125/98-509	Configurable in 1 or 2 channels. Multifunction: Switching, regulation, shading, cool ambiance, values sending. Integrated bus coupler.



Description	Code	Technical Data
Cover plate for buttons BP 2 with attachments to the mounting plate	N2221.2 BL AN PL CV	



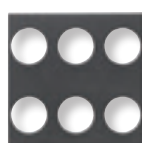
Description	Code	Technical Data
Push button KNX, 2/4 channels	6126/98-500	Configurable in 2 or 4 channels. Multifunction: Switching, regulation, shading, cool ambiance, values sending. Integrated bus coupler.



Description	Code	Technical Data
Cover plate for buttons BP 4 with attachments to the mounting plate	N2221.4 BL AN PL CV	



Description	Code	Technical Data
Push button KNX, 3/6 channels	6129/96-500	Configurable in 3 or 6 channels. Multifunction: Switching, regulation, shading, cool ambiance, values sending. Integrated bus coupler.



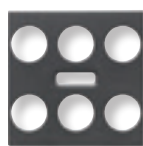
Description	Code	Technical Data
Cover plate for buttons BP 6 with attachments to the mounting plate	N2221.6 BL AN PL CV	

Zenit

KNX Zenit Range



Description	Code	Technical Data
Push button KNX,3/6 Channels + IR	6129/98-509	Configurable in 3 or 6 channels. Multifunction: Switching, regulation, shading, cool ambiance, values sending. Integrated bus coupler.



Description	Code	Technical Data
Cover plate for buttons BP 6 + IR with attachments to the mounting plate	N2221.7	BL AN PL CV



Description	Code	Technical Data
KNX room thermostat with display	6124/98-509	Thermal regulation heating/cooling (PI, PWM or 2 points), fan-coil actuators control up to 5 speeds. Integrated bus coupler.



Description	Code	Technical Data
Cover plate for KNX thermostat with attachments to the mounting plate	N2240.4	BL AN PL CV



Description	Code	Technical Data
KNX movement detector	6122/98-509	Max 4 channels. Frontal and side: 6 m Detection angle: 180 degrees Brightness range: 5-150 lux Mounting height: 1.1. m Protection: IP20 Integrated bus coupler.



Description	Code	Technical Data
Cover plate for KNX movement detector with attachments to the mounting plate	N2241.4	BL AN PL CV



Description	Code	Technical Data
Light	6123/20-500	Clarify the configured functions of the command buttons 2/4/6 and 6 push buttons + IR
Blind	6123/21-500	
Scene	6123/22-500	
Thermostat	6123/23-500	
Dome light	6123/24-500	
Air conditioning	6123/26-500	

Consult the KNX general catalogue for more information about the whole KNX products.

Zenit

Rectangular frames

Rectangular frames offer the possibility of inserting mechanisms 1, 2 or 3 modules that can be installed on a metal support, and fixed with screws in rectangular type connection flush mounting boxes or surface boxes. The frame is easily fixed on the mounting plate without screws. Wide frames available for american type connection.



Frame 1 module N2371.1



Frame 2 modules N2372.1



Frame 3 modules N2373.1



Frame 4 modules N2374.1

White



Description	Code	Technical Data
Frame 1 module	N2371.1 BL	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 2 modules	N2372.1 BL	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 BL	Dimensions: 122 x 90 mm. For box ref. 499.3

Anthracite



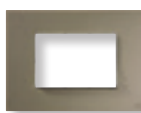
Description	Code	Technical Data
Frame 1 module	N2371.1 AN	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 2 modules	N2372.1 AN	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 AN	Dimensions: 122 x 90 mm. For box ref. 499.3

Silver



Description	Code	Technical Data
Frame 1 module	N2371.1 PL	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 2 modules	N2372.1 PL	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 PL	Dimensions: 122 x 90 mm. For box ref. 499.3

Champagne



Description	Code	Technical Data
Frame 1 module	N2371.1 CV	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 2 modules	N2372.1 CV	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 CV	Dimensions: 122 x 90 mm. For box ref. 499.3

Zenit

White Glass



Description	Code	Technical Data
Frame 2 modules	N2372.1 CB	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 CB	Dimensions: 122 x 90 mm. For box ref. 499.3

Slate



Description	Code	Technical Data
Frame 2 modules	N2372.1 PZ	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 PZ	Dimensions: 122 x 90 mm. For box ref. 499.3

Black Glass



Description	Code	Technical Data
Frame 2 modules	N2372.1 CN	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 CN	Dimensions: 122 x 90 mm. For box ref. 499.3

Pearl White



Description	Code	Technical Data
Frame 3 modules	N2373.1 BN	Dimensions: 122 x 90 mm. For box ref. 499.3

Wenge



Description	Code	Technical Data
Frame 2 modules	N2372.1 WG	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 WG	Dimensions: 122 x 90 mm. For box ref. 499.3

Silk Black



Description	Code	Technical Data
Frame 3 modules	N2373.1 NT	Dimensions: 122 x 90 mm. For box ref. 499.3

Stainless Steel





Description	Code	Technical Data
Frame 2 modules	N2372.1 OX	Dimensions: 122 x 90 mm. For box ref. 499.3
Frame 3 modules	N2373.1 OX	Dimensions: 122 x 90 mm. For box ref. 499.3

Antique Steel

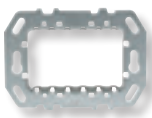


Description	Code	Technical Data
Frame 3 modules	N2373.1 AL	Dimensions: 122 x 90 mm. For box ref. 499.3


Frames for 4 modules

	Description	Code	Technical Data
	Frame 4 modules	N2374.1 BL	White Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 PL	Silver Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 AN	Anthracite Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 CV	Champagne Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 CB	White Glass Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 CN	Black Glass Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 WG	Wenge Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 OX	Stainless Steel Dimensions: 139 x 85 mm. For box ref. 1499.4
	Frame 4 modules	N2374.1 PZ	Slate Dimensions: 139 x 85 mm. For box ref. 1499.4


Metal mounting frame

Description	Code	Technical Data
 Metal mounting frame for rectangular frame	N2373.9	For frames N2371.1, N2372.1 and N2373.1


Rectangular box

Description	Code	Technical Data
 Rectangular box with screws	499.3	Distance between screws: 83,5 mm For frames 117 x 85 mm

Metal mounting frame 4 modules

Description	Code	Technical Data
 Metal mounting plate	N2374.9	For frame N2374.1

Box for 4 modules

Description	Code	Technical Data
 Box for 4 modules with screws	1499.4	Distance between screws: 107 mm

Zenit

Frames for combinations

Frames 2, 3 and 4 modules have the possibility of being combined with mechanisms 1 and 2 modules, which are installed on a metal support. It can be fixed with screws or clamps in the universal connection box. The frame is easily fixed on the mounting plate without screws.

Versatile frames that can be installed horizontally and vertically.

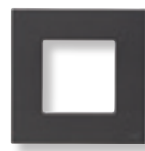


Basic frames



Description	Code	Technical Data
Basic Frame 1 module	N2171.1 BL	Dimensions: 85 x 85 mm.
Basic Frame 2 modules	N2271.1 BL	Dimensions: 85 x 85 mm.
Basic Frame 2 + 2 modules	N2272.1 BL	Dimensions: 156 x 85 mm. Entraxe: 71 mm.
Basic Frame 2 + 2 + 2 modules	N2273.1 BL	Dimensions: 227 x 85 mm. Entraxe: 71 mm.
Basic Frame 2 + 2 + 2 + 2 modules	N2274.1 BL	Dimensions: 298 x 85 mm. Entraxe: 71 mm.

Anthracite



Description	Code	Technical Data
Frame 2 modules	N2271 AN	Dimensions: 85 x 85 mm.
Frame 2 + 2 modules	N2272 AN	Dimensions: 156 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 AN	Dimensions: 227 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 AN	Dimensions: 298 x 85 mm. Entraxe: 71 mm.

White



Description	Code	Technical Data
Frame 1 module	N2171 BL	Dimensions: 85 x 85 mm.
Frame 2 modules	N2271 BL	Dimensions: 85 x 85 mm.
Frame 2 + 2 modules	N2272 BL	Dimensions: 156 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 BL	Dimensions: 227 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 BL	Dimensions: 298 x 85 mm. Entraxe: 71 mm.

Silver



Description	Code	Technical Data
Frame 2 modules	N2271 PL	Dimensions: 85 x 85 mm.
Frame 2 + 2 modules	N2272 PL	Dimensions: 156 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 PL	Dimensions: 227 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 PL	Dimensions: 298 x 85 mm. Entraxe: 71 mm.

Zenit

Champagne



Description	Code	Technical Data
Frame 2 modules	N2271 CV	Dimensions: 85 x 85 mm.
Frame 2 + 2 modules	N2272 CV	Dimensions: 156 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CV	Dimensions: 227 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CV	Dimensions: 298 x 85 mm. Entraxe: 71 mm.

White Glass



Description	Code	Technical Data
Frame 2 modules	N2271 CB	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 CB	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CB	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CB	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Slate



Description	Code	Technical Data
Frame 2 modules	N2271 PZ	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 PZ	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 PZ	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 PZ	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Black Glass



Description	Code	Technical Data
Frame 2 modules	N2271 CN	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 CN	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CN	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CN	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Stainless Steel



Description	Code	Technical Data
Frame 2 modules	N2271 OX	Dimensions: 85 x 85 mm.
Frame 2 + 2 modules	N2272 OX	Dimensions: 156 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 OX	Dimensions: 227 x 85 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 OX	Dimensions: 298 x 85 mm. Entraxe: 71 mm.

Pearl Glass



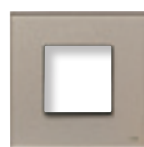
Description	Code	Technical Data
Frame 2 modules	N2271 CP	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 CP	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CP	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CP	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Wenge



Description	Code	Technical Data
Frame 2 modules	N2271 WG	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 WG	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 WG	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 WG	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Champagne Glass



Description	Code	Technical Data
Frame 2 modules	N2271 CH	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 CH	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CH	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CH	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Zenit

Coffee Glass



Description	Code	Technical Data
Frame 2 modules	N2271 CC	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 CC	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CC	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CC	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Graphite Glass



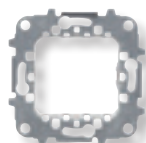
Description	Code	Technical Data
Frame 2 modules	N2271 CF	Dimensions: 90 x 90 mm.
Frame 2 + 2 modules	N2272 CF	Dimensions: 161 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 modules	N2273 CF	Dimensions: 232 x 90 mm. Entraxe: 71 mm.
Frame 2 + 2 + 2 + 2 modules	N2274 CF	Dimensions: 303 x 90 mm. Entraxe: 71 mm.

Screws

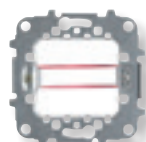


Descripción	Code	Technical Data
Screws	N2071.1	For anti-vandalism system of Zenit frames. Connection and dimension drawing, see appendix.

Metal mounting plate



Description	Code	Technical Data
Metal mounting plate for universal box without clamps	N2271.9	Possibility to mount elastic clamps ref. N2071.9 to reduce wiring time.



Description	Code	Technical Data
Metal mounting plate with clamps	N2271.9G	Metal mounting plate for all types of boxes.



Description	Code	Technical Data
Metal mounting plate 2-gang without clamps	N2272.9	For installation with horizontal frames.

Flush mounting box VDE

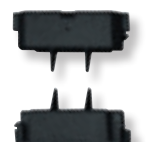


Descripción	Código	Datos Técnicos
Flush mounting box VDE	1199	Unit per box: 50 Unit per box: 250 Permits the entrance of two tubes for each side. Connectable. Horizontal and vertical fixation possible. Distance between screws: 60 mm

Clamps



Description	Code	Technical Data
Elastic clamps	N2071.9	Adaptable to metal mounting frame ref. N2271.9 Saving wiring time. Connection and dimension drawing, see appendix.



Description	Code	Technical Data
Clamps accessories	N2071.8	Adaptable to metal mounting frame ref. N2271.9, to be used in narrow mechanisms. Connection and dimension drawing, see appendix.

Surface mounted boxes



Zenit is known for both its design and the fact that it is highly adaptable. The new plate covers for woodwork, surface mounted boxes, boxes for workstations, support for DIN rails, etc. mean that Zenit can cover all kinds of installations from beginning to end with a single range.

- Thin walls cover plates that allow the range to blend in with wooden walls and screens (1 to 2 single modules or 2 vertical modules).
- Surface-mounted units: 4 models for installations with tubes or conduits: Two models for those with 2 modules, one for 3-module single boxes and one for 4 single modules.



Description	Code	Technical Data
Surface mounted box 2 modules. Frame incorporate	N2991.1 BL	For 2 mechanism of 1 module or 1 of 2 modules. Inlet in 4 sides forcable or tube adapter N2999: Dimensions: Lenght x Height x Widht 64 x 70 x 47 mm. Trunking and ref. Adapter unex: - 78672 (10 x 22) - 78673 (10 x 30) - 78681 (16 x 16)



Description	Code	Technical Data
Surface Mounted box 4 modules wide	N2994 BL	Inlet in 4 sides forcable or tube adapter N2999: Dimensions: Lenght x Height: 85 x 140 mm. ref. N2374.1 XX Trunking and ref. Adapter unex: - 78672 (10 x 22) - 78673 (10 x 30) - 78681 (16 x 16)



Description	Code	Technical Data
Surface mounted box 1 and 2 modules	N2991 BL	For 2 mechanism of 1 module or 1 of 2 modules. Inlet in 4 sides forcable or tube adapter N2999: Dimensions: Lenght x Height 85 x 85 mm. ref. N2271 XX, N2171.1 BL Trunking and ref. Adapter unex: - 78672 (10 x 22) - 78673 (10 x 30) - 78681 (16 x 16)



Description	Code	Technical Data
Tube adapter	N2999 BL	Valid for, N2991 BL, N2991.1 BL, N2993 BL and N2994 BL, tube adapter for Ø16, Ø20, Ø25.



Description	Code	Technical Data
Surface Mounted monobox	N2993 BL	Inlet in 4 sides forcable or tube adapter N2999: Dimensions: Lenght x Height 85 x 117 mm. ref. N2371.1 XX, N2372.1 XX, N2373.1 XX Trunking and ref. Adapter unex: - 78672 (10 x 22) - 78673 (10 x 30) - 78681 (16 x 16)

Surface mounted boxes furniture



Description	Code	Technical Data
Frame and box for furniture installation. 1 frame	N2671 BL	For 1 mechanism of 1 module. Size: 68 x 32 mm. Perforation on the wall: 50 x 26 mm. Includes assembling template. Specially indicated for installation on structures of reduced dimensions. Cover plates provided with flush boxes, with threaded screws.



Description	Code	Technical Data
Frame and box for furniture installation. 2 frame	N2671.2 BL	For 2 mechanism of 1 module. Size: 126 x 32 mm. Perforation on the wall: 108 x 26 mm. Includes assembling template. Specially indicated for installation on structures of reduced dimensions. Cover plates provided with flush boxes, with threaded screws.



Description	Code	Technical Data
Frame and box for furniture installation. 1 frame. 2 modules	N2672 BL	For 1 mechanism of 2 modules or 2 mechanism. Size: 68 x 54 mm. Perforation on the wall: 50 x 49 mm. Includes assembling template. Specially indicated for installation on structures of reduced dimensions. Cover plates provided with flush boxes, with threaded screws.

Support DIN rail



Description	Code	Technical Data
Support 2 modules for DIN rail	N2692 BL	According EN 50022 Colour white RAL - 9010 Length 53,5 mm Mounting mechanism Zenit in DIN for rail distribution boards

Weatherproof boxes for Zenit range

The Zenit surface mounted boxes IP40 and IP55 allow installing all the mechanisms of the range in any humid or dusty environment.



Surface mounted boxes for Zenit range with two degrees of protection IP55 and IP40.





Manufactured in accordance with the standards :

- U- UNE 20324 (IEC60529)
- IEC 60670
- UNE-EN 60695-2-11
- Double insulated boxes.





- High resistance to impact, weather and chemicals.
- Grey color boxes, RAL 7035.
- Manufactured of thermoplastic polymers for better fire protection.
- The boxes lid IP55 has a transparent elastic membrane which permits controlling the mechanism directly. It also offers a comfortable opening angle of 120°.
- Pre-mounted IP55:

- Back and forth, push button and Schuko socket.
- These mounting boxes can also receive the full range of KNX appliances.

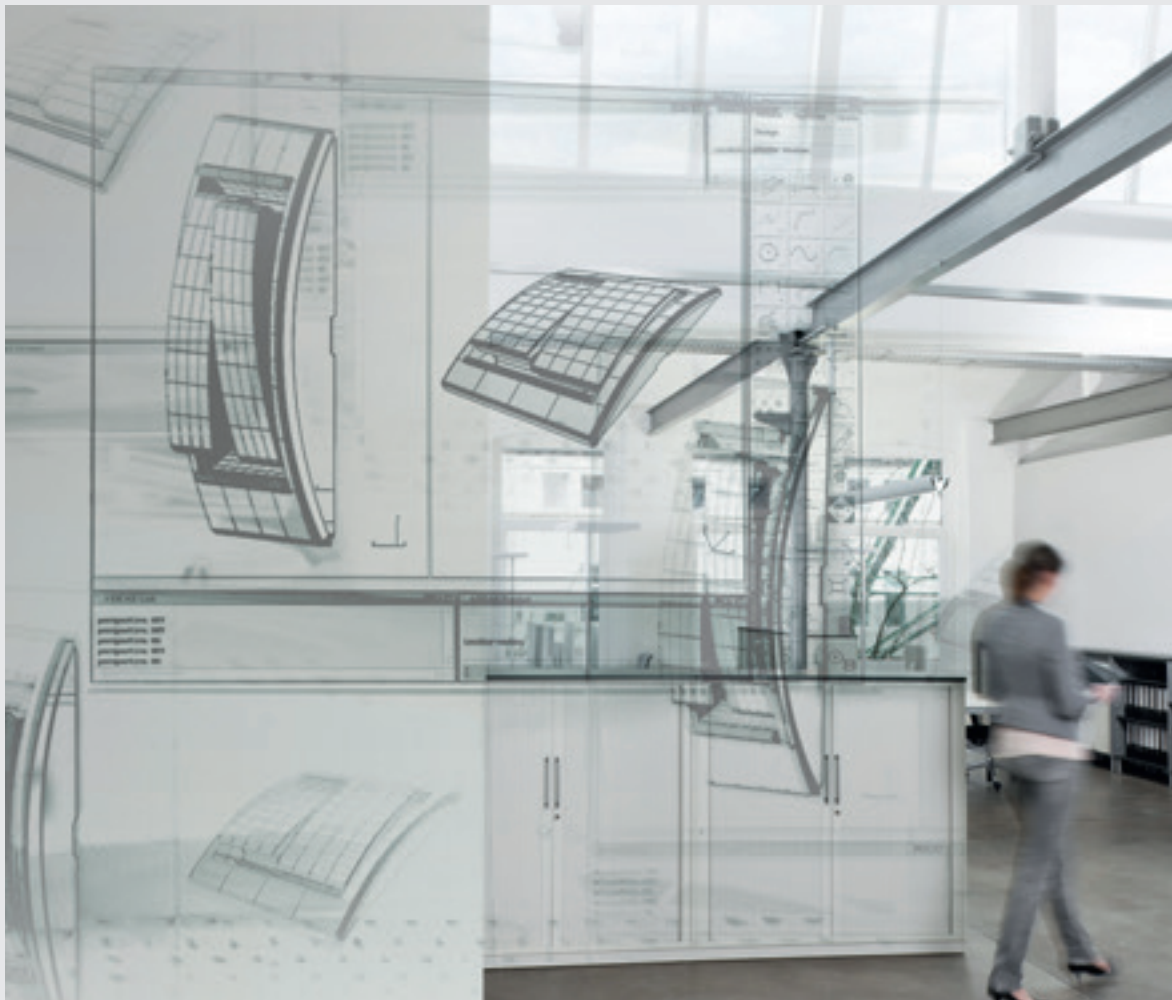
Surface mounted box Protection index IP55

	Description	Code	Technical Data
	Box 2 Modules	N3291 BL	Surface mounted box. Waterproof box with double insulation seal. Grey, RAL 7035. Diameter for connection, cable or tube: 20 mm max. Cover with membrane for direct control of the mechanism. Lid opening 120°. Impact resistance index: IK06.
	Box 2 x 2 modules	N3292 BL	Surface mounted box. Waterproof box with double insulation seal. Grey, RAL 7035. Diameter for connection, cable or tube: 20 mm max. Cover with membrane for direct control of the mechanism. Lid opening 120°. Impact resistance index: IK06.
	Box 3 x 2 modules	N3293 BL	Surface mounted box. Waterproof box with double insulation seal. Grey, RAL 7035. Diameter for connection, cable or tube: 20 mm max. Cover with membrane for direct control of the mechanism. Lid opening 120°. Impact resistance index: IK06.
	Box 3 modules	N3391 BL	Surface mounted box. Waterproof box with double insulation seal. Grey, RAL 7035. Diameter for connection, cable or tube: 20 mm max. Cover with membrane for direct control of the mechanism. Lid opening 120°. Impact resistance index: IK06.

Surface mounted box Protection index IP40

	Description	Code	Technical Data
	Box 2 Modules	N3291.1 BL	Surface mounted box. Grey RAL 7035. Diameter for connection, cable or tube: 20 mm max. Impact resistance index: IK06
	Box 2 x 2 modules	N3292.1 BL	Surface mounted box. Grey RAL 7035. Diameter for connection, cable or tube: 20 mm max. Impact resistance index: IK06
	Box 3 x 2 modules	N3293.1 BL	Surface mounted box. Grey RAL 7035. Diameter for connection, cable or tube: 20 mm max. Impact resistance index: IK06
	Box 3 modules	N3391.1 BL	Surface mounted box. Grey RAL 7035. Diameter for connection, cable or tube: 20 mm max. Impact resistance index: IK06

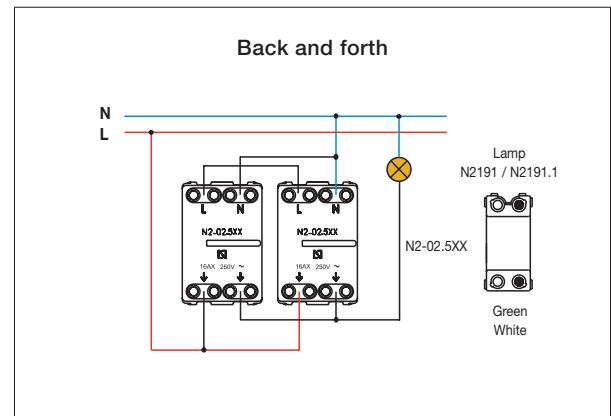
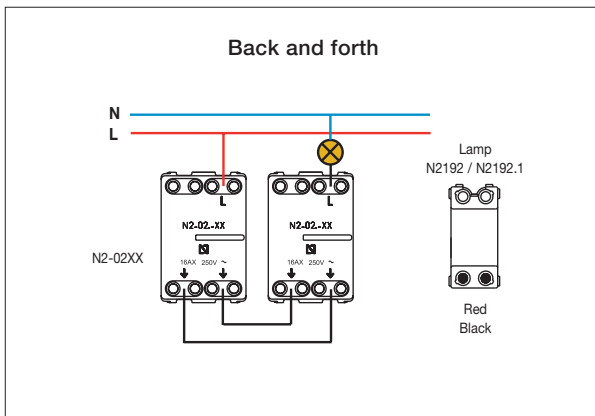
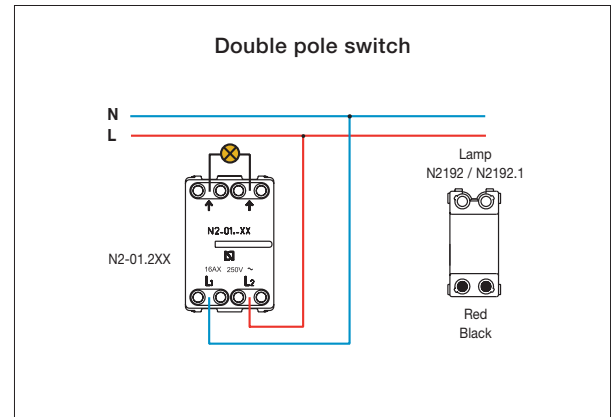
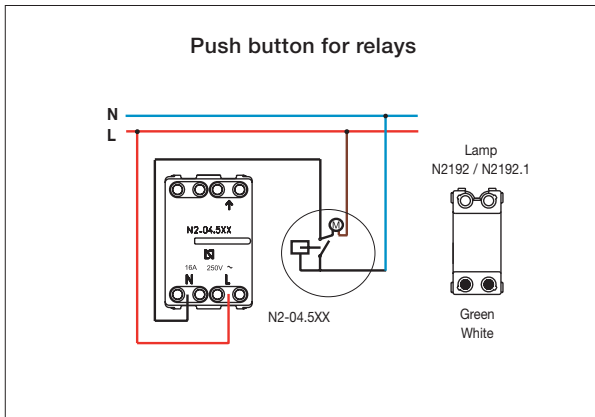
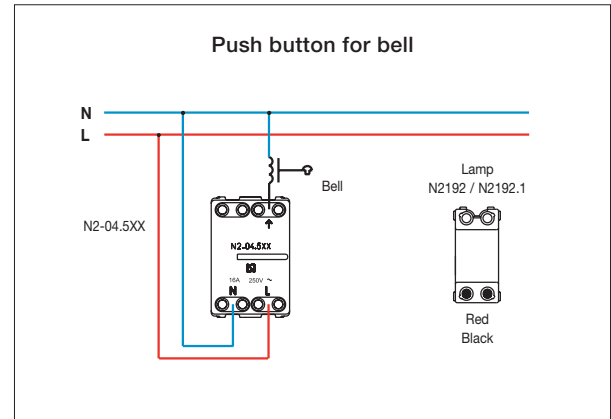
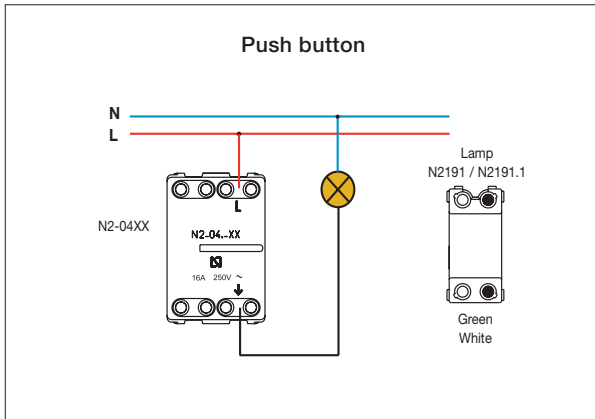
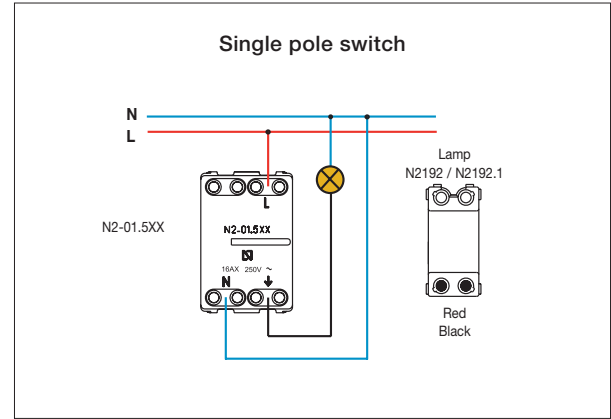
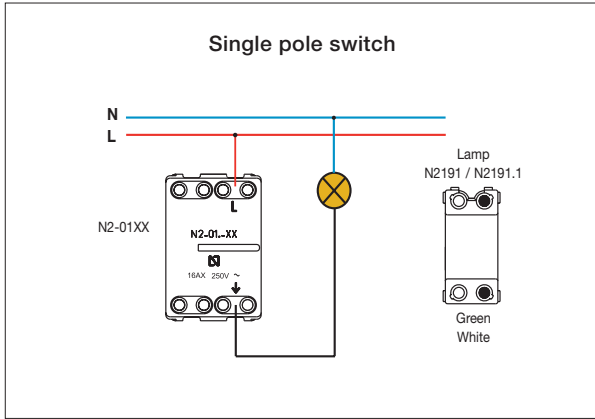
Diagrams, technical data and dimensions



Thinking of making your job easier. We create these supports to optimize your time. We provide all the technical information, diagrams and dimensions of each of our products in a clear and precise manner to facilitate understanding.

Wiring diagrams LED lit when the lighting is extinguished

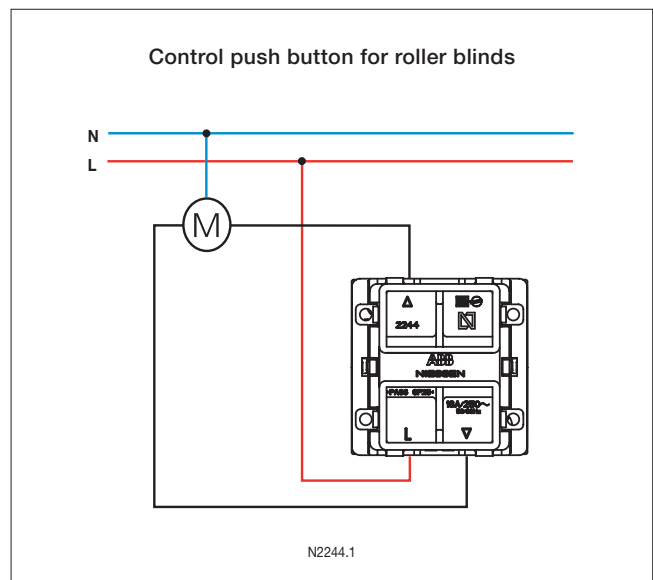
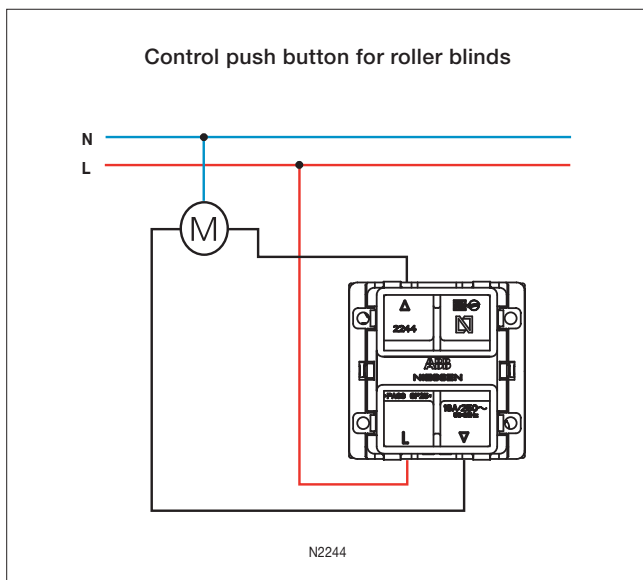
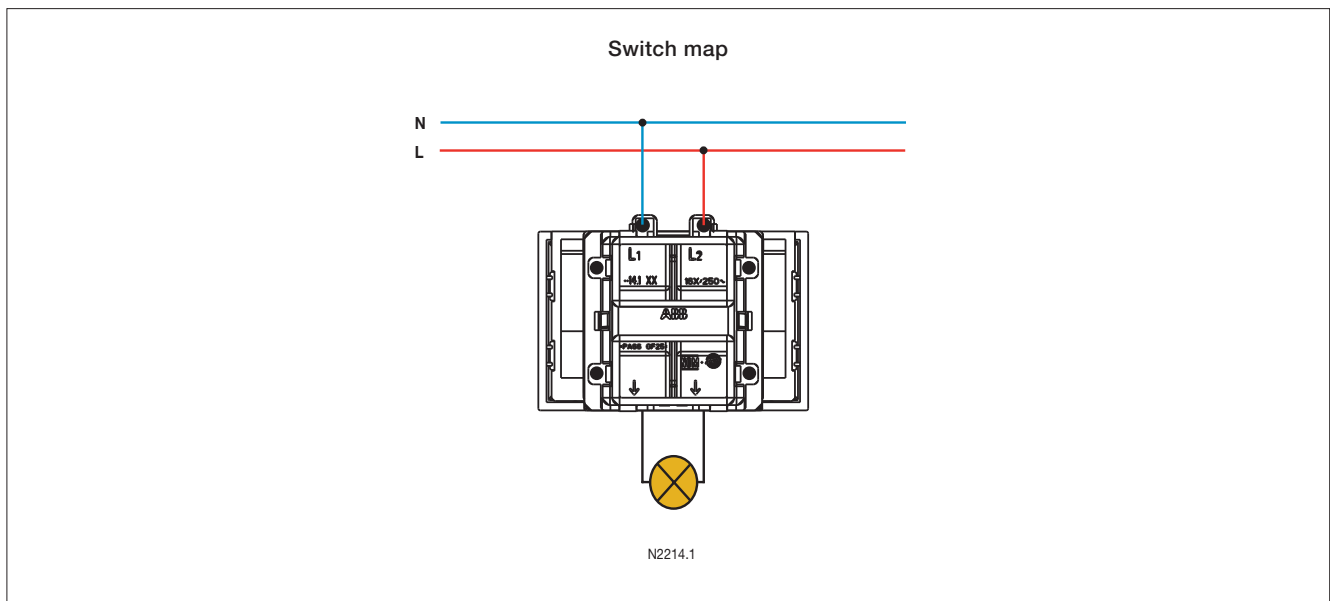
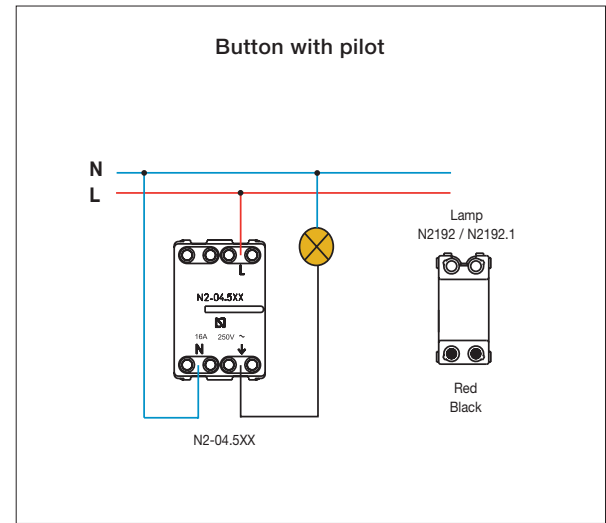
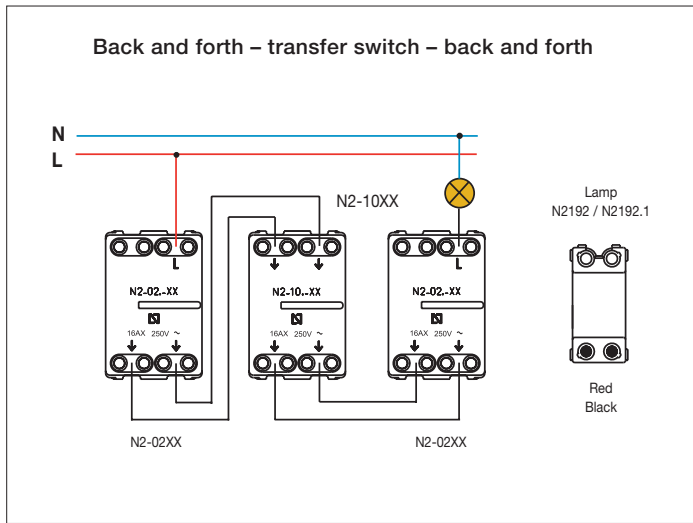
LED permanently lit for fluorescent source installations



Wiring diagrams

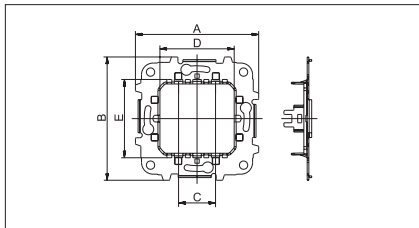
LED lit when the lighting is extinguished

LED permanently lit for fluorescent source installations

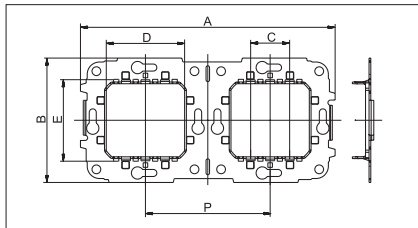


Zenit

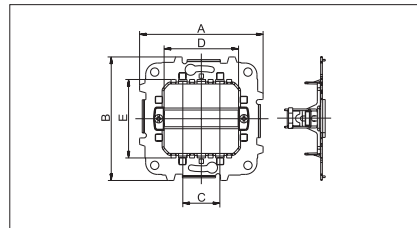
Simple support



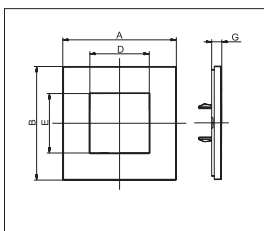
Double support



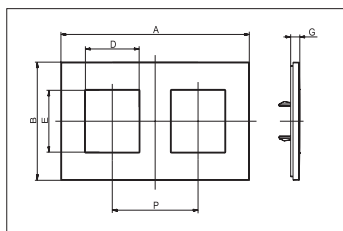
Support with claws



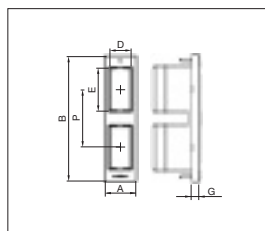
Simple frame



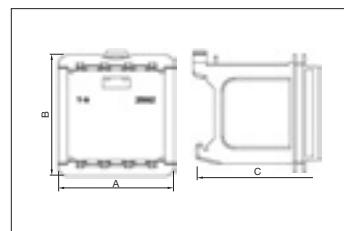
Double frame



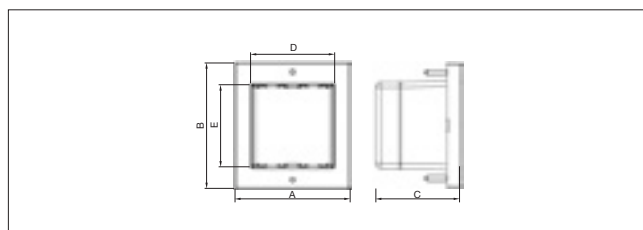
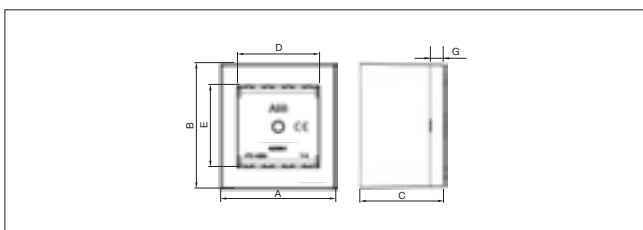
Wood support



Support for Din Rail



Frame mounted with Frame



Series	N° art.	A	B	C	D	E	G	P
Finishing frames	N2171 1 ven. (1M)	85	85	-	22,4	44,6	7,5	-
	N2171.1 1 ven. (1M)	85	85	-	22,4	44,6	7,5	-
	*N2271 1v en. (2M)	85	85	-	44,6	44,6	7,5	-
	N2271.1 1 ven. (2M)	85	85	-	44,6	44,6	7,5	-
	*N2272 2 ven. (2M)	156	85	-	44,6	44,6	7,5	71
	N2272.1 2 ven. (2M)	156	85	-	44,6	44,6	7,5	71
	*N2273 3 ven. (2M)	227	85	-	44,6	44,6	7,5	71
	N2273.1 3 ven. (2M)	227	85	-	44,6	44,6	7,5	71
	*N2274 4 ven. (2M)	298	85	-	44,6	44,6	7,5	71
	N2274.1 4 ven. (2M)	298	85	-	44,6	44,6	7,5	71
Rectangular frames	N2371.1	122	90	-	22,4	44,6	7,5	-
	N2372.1	122	90	-	44,6	44,6	7,5	-
	N2373.1	122	90	-	66,8	44,6	7,5	-
Frames 4 modules	N2374.1	139,2	85	-	89	44,6	7,5	-
Supports	N2271.9 1 ven. (2M)	74	74	22,2	44,6	47	-	-
	N2272.9 2 ven. (2M)	145	70,8	22,2	44,6	44,6	-	71
	N2271.9G 1 ven. (2M)	74	74	22,2	44,6	47	-	-
Mounted boxes	N2991 BL	85	85	44,2	58	58	-	-
	N2991.1 BL	62	68	47	44,6	44,6	8,5	-
	N2993 BL	117	85	44,2	56	87	-	-
	N2994 BL	139,2	85	44,2	56	110,2	-	-
	N2999	-	-	-	-	-	-	-
Support for carpentry	N2671 BL	32	68	46,5	22,4	44,6	8,5	-
	N2671.2 BL	32	126	46,5	22,4	44,6	8,5	-
	N2672 BL	62	68	46,5	44,6	44,6	8,5	-
Support for Din Rail	2692 BL	53,5	56	58,5	-	-	-	-

* Glass, Wood or Steel Frames

Serie	N° art.	A	B	C	D	E	G	P
Finishing Frames	N2271 1 ven. (2M)	90	90	-	44,6	44,6	8	-
	N2272 2 ven. (2M)	161	90	-	44,6	44,6	8	71
	N2273 3 ven. (3M)	232	90	-	44,6	44,6	8	71
	N2274 4 ven. (4M)	303	90	-	44,6	44,6	8	71
Rectangular frames	N2373.1	122	90	-	66,8	44,6	8	-
Frames 4 modules	N2374.1	142	90	-	89	44,6	-	-

Wiring Instructions for Female RJ45 Connector Device 2018.6

1 Preparing the Cable

1.1 Cut approximately 5 cm. off the jacket.



1.2 Open approx. 10 cm of the jacket with a cutter cord or another tool.



1.3 Cut the jacket.

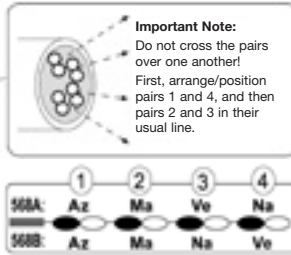


1.4 Cut the mesh (if it has one and the cord at the same level of the jacket).



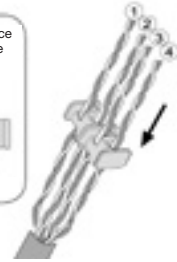
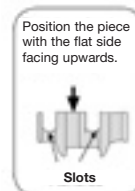
2 Preparing the Conductors

2.1 Select the adequate wiring scheme (568A or 568B) and place the pairs in a straight line.

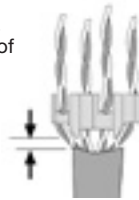


Important Note:
Do not cross the pairs over one another!
First, arrange/position pairs 1 and 4, and then pairs 2 and 3 in their usual line.

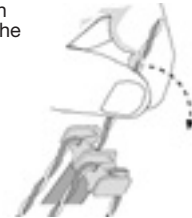
2.2 Position each of the four pairs in the holes of the end piece.



2.3 Ensure the end piece is located as close as possible to the edge of the jacket.



2.4 Place the pairs in the direction of the end piece slots.

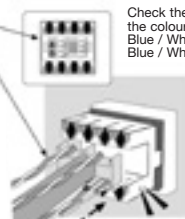


2.5 Insert the end piece into the module.

Blue / White (first pair)

Important Note:
Align the Blue / White pair with the Blue / White colour indicated in the module colour code.

Check the orientation of the colour codes: Blue / White matched with Blue / White



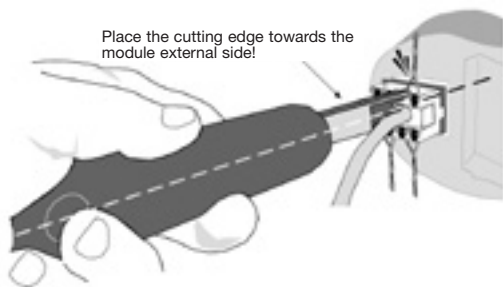
Position the piece with the flat side facing upwards.

2.6 Unbraid the pairs, position and insert the cable in the module slots. Place the **solid colour cable in the first slot of the pair.**



3 Conductor Terminations

3.1 Place the tool perpendicular to the module and finish cutting the cables.

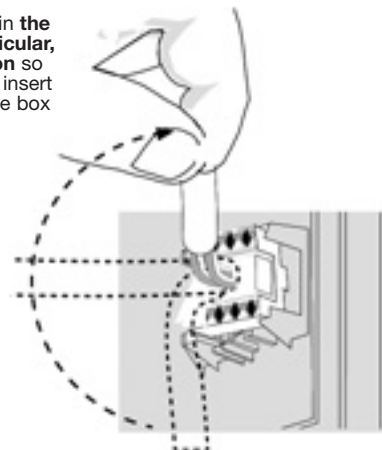


Place the cutting edge towards the module external side!

Note: Use a NORDX/CDT BIX AX100749, KRONE wiring tool, or a similar type 110 tool.

4 Placing the Cable

4.1 Place the cable in the **upper, perpendicular, or lower position** so that it is easy to insert the module in the box for attachment.

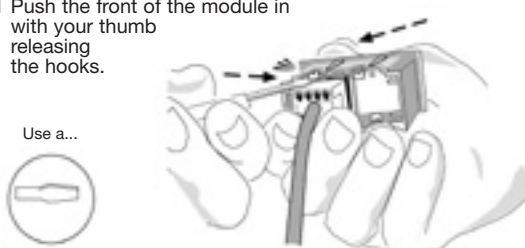


Wiring Instructions for Female RJ45 Connector Device 2018.6


5 Disassembling the module from the supporting piece

5.1 Push the front of the module in with your thumb releasing the hooks.


Use a...



5.2 Pry upwards to release the upper hook.

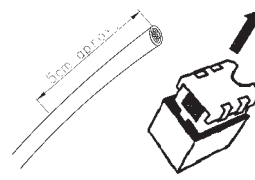


5.3 Pry downwards to release the lower hook.

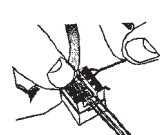


Female RJ45 Connector Mechanisms Cat. 5 E 2018.5

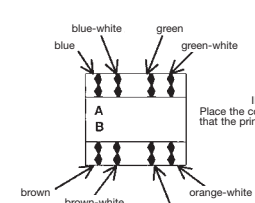
1 Remove the back cap from the connector. Strip approx. 5cm off the jacket and discard the cable cutter cord.



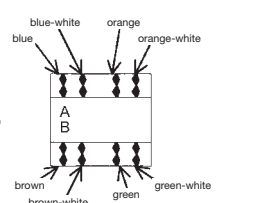
2 Bring the cable close to the connector, with the jacket at approx. 6 mm from the connector. Insert the cables into the corresponding slots as indicated by the cable colour-wiring configuration for T568A or T568 B (as shown in Figures 2A and 2B).



2a Wiring according to T568A:

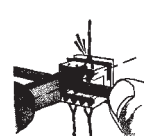


2b Wiring according to T568B:




IMPORTANT: Place the connector in such a way that the printed letters A and B are facing up

3 Push the cables against the end of the slot and cut them flush to the connector. Use an IBDN 110, BIX, KRONE wiring tool, or a similar type 110 tool

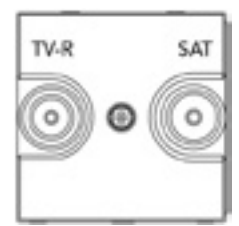


4 Mount the connector cap.



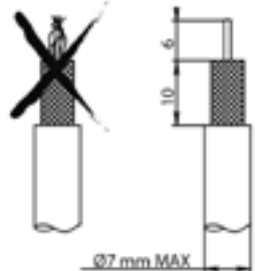
2251.3 Tv-r/sat outlet single, 2251.7 Tv-r/sat outlet dead-end and 2251.8 Tv-r/sat outlet loop through

Connector characteristics



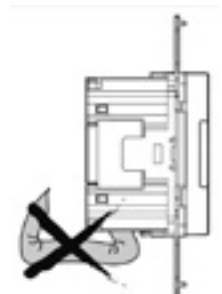
- TV-R output: 9,52 mm male.
- SAT output: 9,52 mm female.
- TV R: 9,52 mm -
- SAT: 9,52 mm.

Cable to use



- Use coaxial cable with characteristic impedance 75Ω.

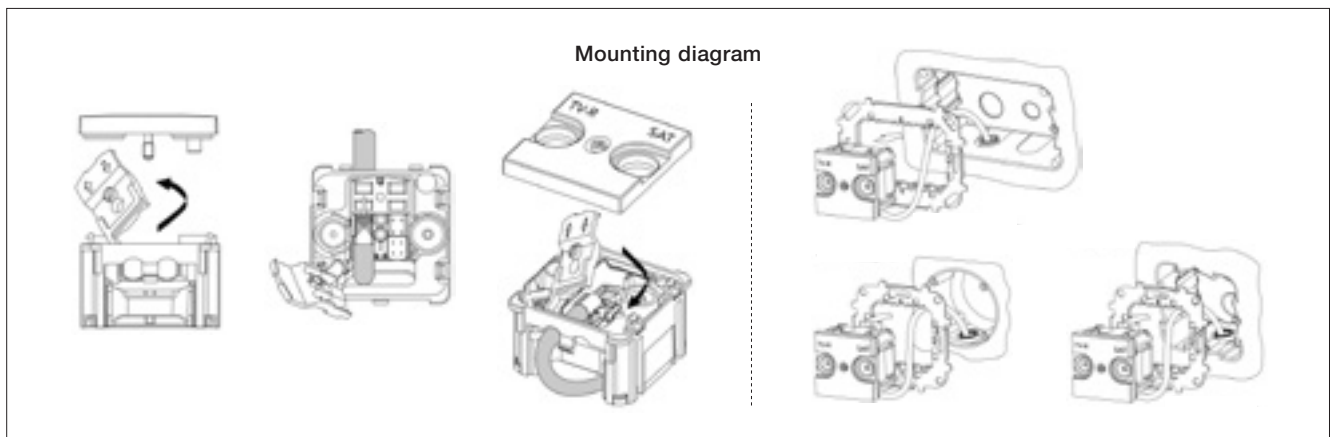
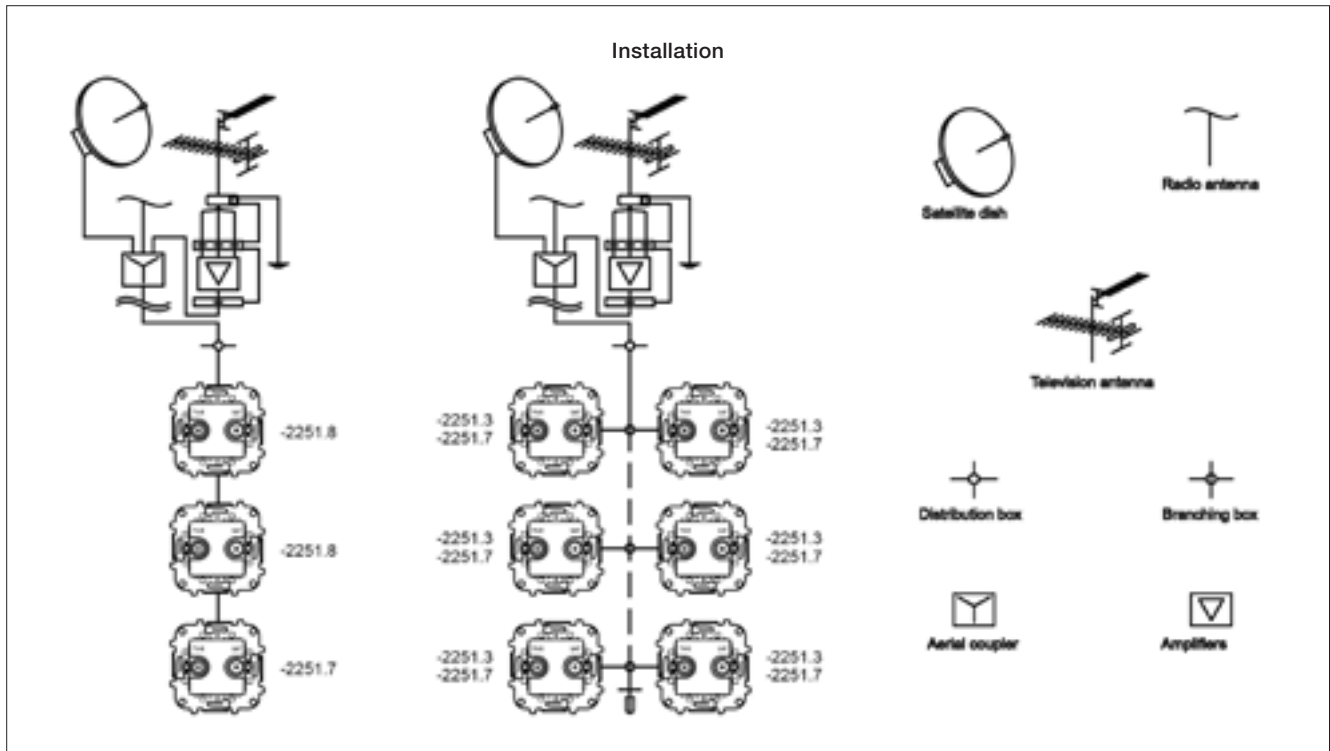
Warning



- Avoid small bending radius.

Zenit

2251.3 Tv-r/sat outlet single, 2251.7 Tv-r/sat outlet dead-end and 2251.8 Tv-r/sat outlet loop through



Main characteristics

Code		-2251.7		-2251.8		-2251.3	
Installation		Cascade				Single	
Name		TV-R-SAT outlet dead-end -R/SAT		TV-R-SAT outlet loop through V-R/SAT		TV-R-SAT outlet loop through V-R/SAT	
Frequency range	MHz	I/O	5,2400		5,2400		
		C1	5,2400		5,862		
		C2	5,2400		930,2400		
Connection loss	dB	R	3,7±0,3	10±1		0,2±0,1	
		TV	4,0±0,5	10±1		1,0±0,5	
		SAT	5,0±1,2	12±2		1,2±0,6	
Through loss	dB	R	-	2,5±0,5		-	
		TV	-	2,5±0,7		-	
		SAT	-	3,0±1,0		-	
Directivity	dB	R	-	>20		-	
		TV	-	>12		-	
		SAT	-	>5		-	
Isolation	dB	R	>20	>45		>15	
		TV	>20	>30		>15	
		SAT	>14	>28		>15	
Return loss	dB	R	>16	>13		>25	
		TV	>16	>12		>14	
		SAT	>9	>12		>10	
DC bypass	V mA			34 (max)			
				500 (max)			
				22Khz / DiSEqC			

1 Module dimmer N2160.E

1.- Technical Data

Voltage:
127 V~ ; 60 Hz for refs. N2160 XX, 2160 XX
230 V~ ; 50-60 Hz for ref. N2160.1 XX

Power:
50-500 W for refs. N2160 XX, 2160 XX
50-700 W for ref. N2160.1 XX

Operating T°:
0 – 30° C

2.- Assembly/Connection

2.1.- Assembly

Important:
If the dimmer is installed next to another electronic device that can produce heat, the maximum power must be reduced in half.
If it is installed between two electronic devices that can produce heat, the maximum power must be reduced to the fourth.

2.2.- Connection

Important:
Disconnect the power supply when installing.

3.- Operation

Do not exceed the maximum shown in Table 1, since the dimmer has a NON-resettable thermal fuse. If the fuse is triggered, the electronic dimmer is useless for further use. In case of exceeding the maximum load, the fuse could not trig but it may happen that the load will not turn off. To solve this

Table 1:
Power reduction (%) as a function of temperature (°C)

Push dimmer N2260

Installation and Operating Instructions

Operating mode

This electronic pulsation regulator makes it possible to control the loads connected to it, either directly or remotely using conventional pushbuttons.

It does not require any special installation and can substitute directly switches or regulators already existing in the installation.

The specific features of this device enable a comfortable remote control capability through conventional pushbuttons with the use of only one conductor, thus simplifying electrical installations, with the possibility to substitute the traditional switched installations.

The operation of the regulator during set up, disconnection or regulation is as follows:

Short pulsation:

If the regulator is off, upon receiving a short pulsation it will turn on using always the maximum level of light.

If the regulator is on, upon receiving a short pulsation it will turn off.

A short pulsation refers to any pulsation lasting between 50 ms and 400 ms.

Long pulsation:

If the regulator is off, upon receiving a long pulsation it will turn on using the minimum level of light; then it will increase it until the pulsation stops, or until it reaches the maximum level of light. If the regulator is on, upon receiving a long pulsation the regulation direction will reverse: if the level of light has increased up to a certain point, it will diminish, and vice versa. Whenever the maximum level of light is reached during a long pulsation, the regulation will stop in the maximum level, even if pulsation continues. However, when the minimum level is reached, it does not stop and it starts increasing.

A long pulsation refers to any pulsation lasting for more than 400 ms.

Basic wiring system

The electrical wiring for these devices is performed according to the wiring diagram shown in Figure 1 in the next page.

The incoming arrow indicates the phase wire of the installation and the outgoing arrow indicates the wiring towards the receptor according to Figure 1.

The terminal "1" is used to exercise control from several points using conventional pushbuttons, refer to the special wiring system.

If the device is to be installed individually, follow the instructions indicated in Figure 1.

Note: Pay special attention to the device input and output conductors, according to the previous description.

Make sure to disconnect the power supply before manipulating the device.

Technical Data

Power Supply:
127 V~ ; 60 Hz
230 V~ ; 50 Hz

Maximum Power:
40 W / VA

Maximum Power:
For 230 V~ ; 50 Hz:
 450 W incandescent lamps.
 400 VA halogen lamps with transformers.

For 127 V~ ; 60 Hz:
 250 W incandescent lamps.
 250 VA halogen lamps with transformers.

Protection against overcurrent:
Using a calibrated fuse ref. T-2A.
A spare fuse is provided.

Protection against faulty connections:
Using an electronic device.

Regulation time: from minimum to 3.8 seconds.
Nighttime indicator display: LED.

Temperature for operation: 0 to 30 °C.

Interference suppression:
UNE-21806 and EN 55014 Standards.

- To connect the device, lift the switch (Fig. 3).
- Connect the regulator based on the wiring scheme (Figs. 1 and 2).
- Mount the device on the wall box, and then position the plate.
- To change the fuse, lift the switch, pulling softly along its edge (Fig. 5) and remove the fuse holder (Fig. 6).
- To dismantle the device, for regulator 2360-XX, lift the switch (Fig. 5), and then remove the plate (Fig. 4).

For regulator ref. 2360-XX, this operation must be performed with the switch lifted (Fig. 4).

Universal pulsation regulator N2260.1X

1.- Technical Data

Electrical Characteristics - Power Supply: 230 V~ ; 50 Hz

- **Minimum Power:** 60 W / VA
- **Maximum Power:** 500 W incandescent lamps
500 VA halogen lamps with electronic transformer.
400 VA halogen lamps with ferromagnetic transformer.
- Room temperature for operation: 0 to 30 °C.

Operating Characteristics

- Regulation control by means of a local push-button (N2260.1X and N2260.2X) and a rotary switch (N2260.2X).
- Control capability through auxiliary pushbut-tons (N2X04.X)
- LED indicator pilot **Detecting the Type of Load**
- After wiring the device to the mains voltage, the regulator assesses the characteristics of the load connected. The load will the device is connected to the mains voltage.

Note: Disconnect the device from the power supply if you are making changes to the load. Overload

- If the device overloads above the maximum per-mitted nominal power, or if the operating temperature exceeds the maximum, the regulator will automatically stop working as a safety measure.

Short Circuit

In case of short circuit, the device will stop working as a safety measure.

2.- Assembly/Connection

2.1.- Connection

Important: Disconnect the power supply when installing.

Basic Wiring

The electrical wiring for these devices is performed according to the wiring diagram shown in Figure 1.

The terminal marked "L" shows the phase wire of the installation.

The terminal indicated with represents the conductor wiring terminal returning from the load, which is also connected to the neutral conductor of the installation. See Figure 1.

The terminal marked "1" is used to exercise control from several points by means of conventional pushbuttons. See Figure 2.

If the device is installed individually, follow the instructions indicated in Figure 1.

Note: Pay special attention to the device input and output conductors, according to the previous description.

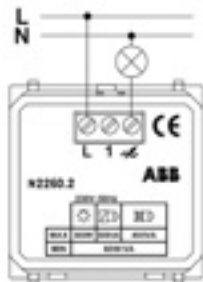


Figure 1:
Basic wiring diagram

Special Wiring

The special characteristics of these regulators enable the remote control using conventional auxiliary pushbuttons (N2X04.X), making it possible to control the turning on and off and regulation features from different points using only one electronic regulator and any number of conventional pushbuttons as desired.

In case it is required to exercise control from several points, refer to the diagram below. Any number of auxiliary conventional pushbuttons may be used as needed.

The outputs of these pushbuttons are connected to terminal "1". See Figure 2.

Note: Pay special attention to the device input and output conductors, according to the previous description.

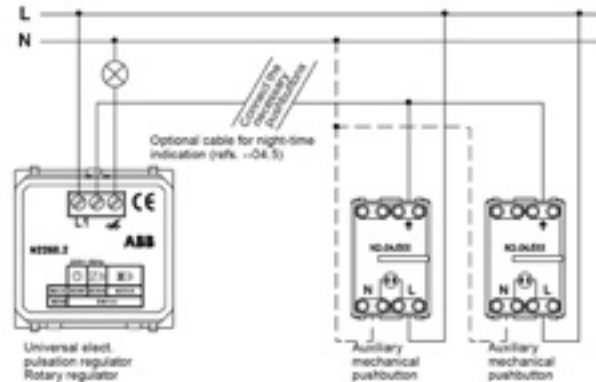


Figure 2: Special wiring diagram

Assembly

To install the device follow these steps:

1. Connect the device based on the corresponding wiring scheme. Figure 1 and Figure 2.
2. Mount the device on the wall box.
3. Then, position the plate.

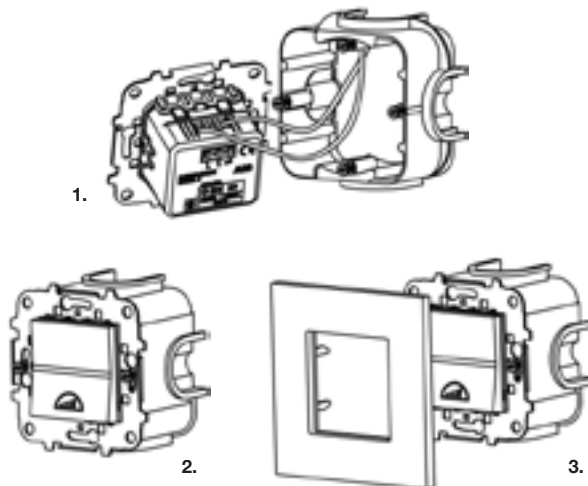


Figure 3: Installation

Long Pulsation

If the regulator is off, upon receiving a long pulsation it will turn on using the minimum level of light. Then it will increase it until the pulsation stops, or until it reaches the maximum level of light.

If the regulator is on, upon receiving a long pulsation the regulation direction will reverse: if the level of light has increased up to a certain point, it will diminish, and vice versa. Whenever the maximum (or minimum) level of light is reached during a long pulsation, the regulation will stop in the maximum (or minimum) level, even if pulsation continues.

A long pulsation refers to any pulsation lasting for more than 400 ms. Turning the Switch Clock-wise (Only applicable to N2260.2X) If the load is off, or in the maximum intensity level, it will not perform any action.

If the load is in a specific regulation point, it will increase the load intensity. Turning the Switch Anti-clockwise (Only applicable to N2260.2X)

If the load is off, it will not perform any action.

If the load is in a specific regulation point, or in the maximum level, it will diminish the load intensity. Once the load reaches the maximum or minimum intensity level, if we keep turning the switch anti-clockwise or clockwise, the load will continue in its maximum/minimum intensity level.

Rotary/push dimmer N2260.2 XX

1.- Technical Data

Electrical Characteristics - Power Supply: 230 V~ ; 50 Hz

- **Minimum Power:** 60 W / VA
- **Maximum Power:** 500 W incandescent lamps
500 VA halogen lamps with electronic transformer.
400 VA halogen lamps with ferromagnetic transformer.
- Room temperature for operation: 0 to 30 °C.

Operating Characteristics

- Regulation control by means of a local push-button (N2260.1X and N2260.2X) and a rotary switch (N2260.2X).
- Control capability through auxiliary pushbut-tons (N2X04.X)
- LED indicator pilot **Detecting the Type of Load**
- After wiring the device to the mains voltage, the regulator assesses the characteristics of the load connected. The load will the device is connected to the mains voltage.

Overload

- If the device overloads above the maximum per-mitted nominal power, or if the operating temperature exceeds the maximum, the regulator will automatically stop working as a safety measure.

Short Circuit

In case of short circuit, the device will stop working as a safety measure.

Note: Disconnect the device from the power supply if you are making changes to the load.

2.- Assembly/Connection

2.1.- Connection

Important: Disconnect the power supply when installing.

Basic Wiring

The electrical wiring for these devices is performed according to the wiring diagram shown in Figure 1.

The terminal marked "L" shows the phase wire of the installation.

The terminal indicated with represents the conductor wiring terminal returning from the load, which is also connected to the neutral conductor of the installation. See Figure 1.

The terminal marked "1" is used to exercise control from several points by means of conventional pushbuttons. See Figure 2.

If the device is installed individually, follow the instructions indicated in Figure 1.

Note: Pay special attention to the device input and output conductors, according to the previous description.

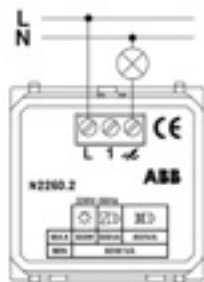


Figure 1:
Basic wiring diagram

Special Wiring

The special characteristics of these regulators enable the remote control using conventional auxiliary pushbuttons (N2X04.X), making it possible to control the turning on and off and regulation features from different points using only one electronic regulator and any number of conventional pushbuttons as desired.

In case it is required to exercise control from several points, refer to the diagram below. Any number of auxiliary conventional pushbuttons may be used as needed.

The outputs of these pushbuttons are connected to terminal "1". See Figure 2.

Note: Pay special attention to the device input and output conductors, according to the previous description.

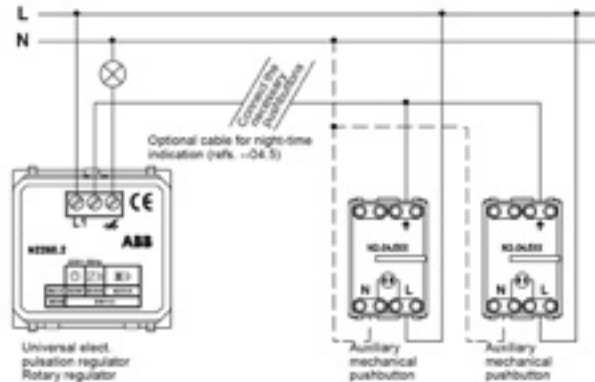


Figure 2: Special wiring diagram

3.- Operation

The operation of the regulator during set up, disconnection or regulation is as follows:

Short Pulsation

If the regulator is off, upon receiving a short pulsation it will turn on using always the maximum level of light.

If the regulator is on, upon receiving a short it will turn off.

A short pulsation refers to any pulsation lasting between 50 ms and 400 ms.

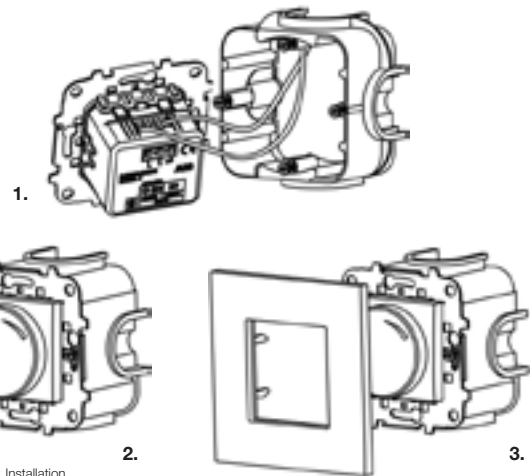


Figure 3: Installation

Long Pulsation

If the regulator is off, upon receiving a long pulsation it will turn on using the minimum level of light. Then it will increase it until the pulsation stops, or until it reaches the maximum level of light.

If the regulator is on, upon receiving a long pulsation the regulation direction will reverse: if the level of light has increased up to a certain point, it will diminish, and vice versa. Whenever the maximum (or minimum) level of light is reached during a long pulsation, the regulation will stop in the maximum (or minimum) level, even if pulsation continues.

A long pulsation refers to any pulsation lasting for more than 400 ms. Turning the Switch Clock-wise (Only applicable to N2260.2X) If the load is off, or in the maximum intensity level, it will not perform any action.

If the load is in a specific regulation point, it will increase the load intensity. Turning the Switch Anti-clockwise (Only applicable to N2260.2X)

If the load is off, it will not perform any action.

If the load is in a specific regulation point, or in the maximum level, it will diminish the load intensity. Once the load reaches the maximum or minimum intensity level, if we keep turning the switch anti-clockwise or clockwise, the load will continue in its maximum/minimum intensity level.

Rotary dimmer for fluorescent N2260.9

1.- Technical Data

Power Supply: 230 V~ ; 50 Hz

- **Nominal power:** 700 VA

- **Load type:** Dimmable electronic ballast with 1-10V control input.

2.- Assembly/Connection

2.1.- Connection

Follow the steps below to install the mechanism:

1. Connect the device according to the connection schemes. Figure 2 and Figure 3.
2. Assemble the device on the flush mounting box.
3. Then, place the plate.

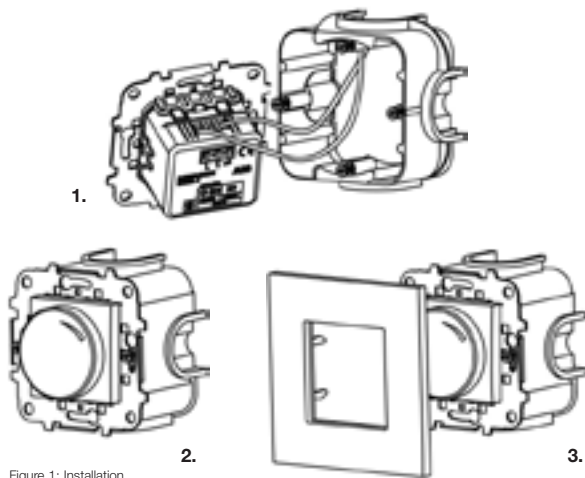
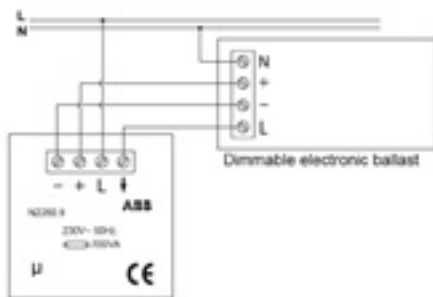


Figure 1: Installation

Important: Disconnect the power supply when installing.

2.2.- Connexion

Le régulateur de fluorescence N2260.9 pourra se connecter à des ballasts électroniques réglables par une entrée de contrôle de 1-10 V comme l'indique la Figure 2:



The maximum charge to be connected to the control terminals + and -, should not exceed 50 mA.

See technical specifications of the dimmable electronic ballast to be installed.

Electronic ballasts generate a very high instantaneous peak current at connection, therefore it is recommended not to connect more than 6 ballasts to the N2260.9 fluorescence regulator.

In installations where it is required to connect more than 6 electronic ballasts to the same regulator mechanism, it is recommended to use a contactor to protect the mechanism contacts. See Figure 3.

3.- Operation button turn in the clockwise direction

If the charge is disconnected, i.e. the rotary button is completely turned counter-clockwise, when turning right the charge will turn on (a "click" will be heard) and the intensity level will increase as we turn the button in the clockwise direction.

If the charge is at a given point of regulation, the charge intensity will increase as we turn the button in that direction.

If we turn the button completely in the clockwise direction, this will stop in a limit, which will coincide with the maximum regulation intensity level.

Button turn in the counter-clockwise direction

intensity level will reduce as we turn the button in the counter-clockwise direction.

If we turn the button completely in the counter-clockwise direction, a "click" will be heard and the button will stop in a limit, the charge will be disconnected.

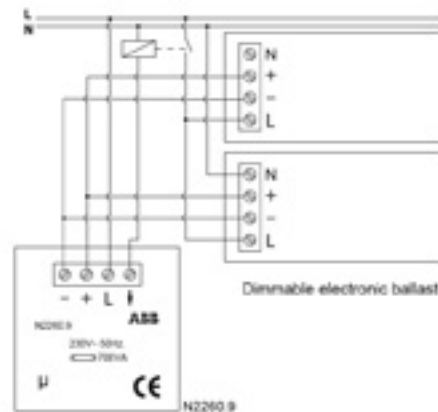


Figure 3: Connection using a contactor

Time delay switch N2262

Operation

The Timer Switch is an electronic operation mechanism making the automatic disconnection of the controlled element, within an adjustable time interval.

The manual operation is carried out by pressing the key.

The remote control operation is made by means of conventional auxiliary push-buttons.

Setting the desired time margin for disconnecting the device, is carried out by using an adjusting screw, as indicated in Figure 1. The time range is adjustable from 10 seconds to 10 minutes ($\pm 10\%$).

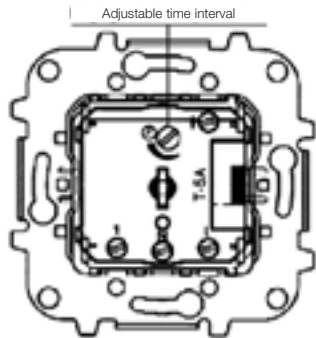


Figure 1

Instructions for use

When the connection of the electrical conductors has been made, you may set the desired value of time delay to the disconnection by operating with the setting screw. When you rotate it in clockwise direction, the disconnection time delay is prolonged, in such a way that the led blinks each time it jumps to the next delay level.

After placing the key, the device is ready to be efficiently used.

When operating manually on the key, the controlled element will connect to the Timer Switch. The disconnection of the latter will be automatically produced when the previously set time delay is over.

If the key, or any of the auxiliary push-buttons, if any, is operated before the totality of the set time delay has come to an end, the device re-initialises the time sequence

Basic connection system

The electric connection of these articles is carried out in conformity with the presentation of the following Figures.

The «L» terminal indicates the connection with the installation phase wire, and the arrow exiting the device indicates the connection to the receptor, accordingly to what can be read in Fig. 2.

If you wish to make the installation of the device as an individual element, you may follow Fig. 3.

Terminal «1» will be used if you wish to control from various positions with push-buttons (see instructions for special connection system on page 10, Fig. 4.)

You have to connect to the «N» terminal, the neutral of the installation.

NOTE: Pay particular attention to the connection of exit/entry device conductors, as shown in the diagrams.

When manipulating the device, make sure it is disconnected from the power grid.

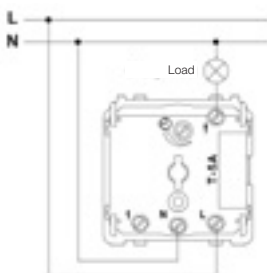


Figure 2

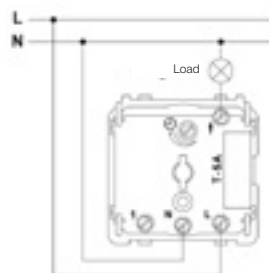


Figure 3

Système de connexion spéciale

Ses caractéristiques spéciales donnent la possibilité de réaliser un contrôle à distance sur la minuterie, grâce à des boutons poussoirs conventionnels, on peut ainsi allumer ou éteindre depuis différents points en utilisant un seul interrupteur temporisé et le nombre de boutons poussoirs désiré.

Au cas où l'on veut un contrôle depuis différents points, on suivra le schéma de l'illustration 4. Dans ce cas, on peut utiliser autant de boutons poussoirs conventionnels que l'on veut. Les sorties des boutons poussoirs mentionnés seront connecté à la borne «1».

Au cas où l'on veut une illumination du pilote de signalisation des boutons poussoirs auxiliaires, il faut compter sur une ligne supplémentaire comme il apparaît sur l'illustration.

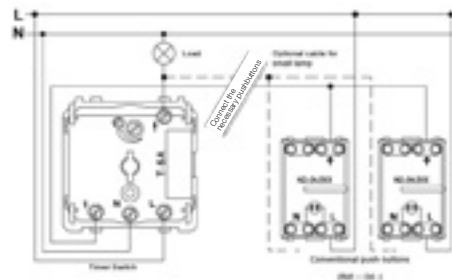


Figure 4
Diagram for luxury connection mechanisms.

Mounting

The Timer Switch ABB is designed for its installation in universal flush-mounting boxes (ref. 1099).

1. Connect the device according to the instructions cited in the subsection on connection systems. **Do not manipulate the device when connected to the power grid.**
2. Introduce the mechanism in the flush-mounting box holding it with the screws of the box (or with fixation claws, if the box is equipped with them).
3. Set the time delay.
4. In case of Stylo or Zenit, mount the frame.
5. When mounting the other series, insert the frame between the support and the body and screw the support to the body. Mount the key on the support.
6. The Timer Switch is ready to use.

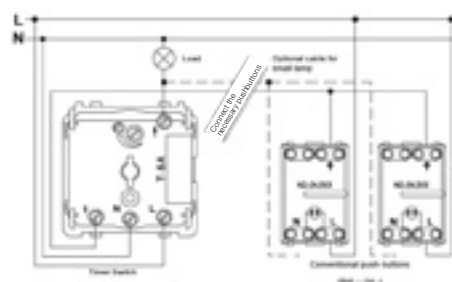


Figure 4
Diagram for connection of modular mechanisms.

Figure 5






Time delay switch N2262

Technical data






- Rated Voltage: 230 V~ ; ± 10% ; 50 Hz
127 V~ ; ± 10% ; 60 Hz

- Maximum Output:

For 230 V~:

☀️ 1.000 W for incandescent lamps.
    1.000 VA for halogens with conventional, electric and motored transformers.
 650 VA for fluorescent lamps.

For 127 V~:

☀️ 600 W for incandescent lamps.
    600 VA for halogens with conventional, electric and motored transformers.
 400 VA for fluorescent lamps

Protection contre les surintensités:

Through calibrated fuse T-5A. It is supplied with a replacement.

Protection against faulty connections:

Through electronic device.

Control time: from 10 sec. to 10 min. (±10%).

Night vision device: Through red LED.

Operating temperature: from 0 to 40 °C.

Interference suppression following the rules:
UNE-21806 y EN 55014.

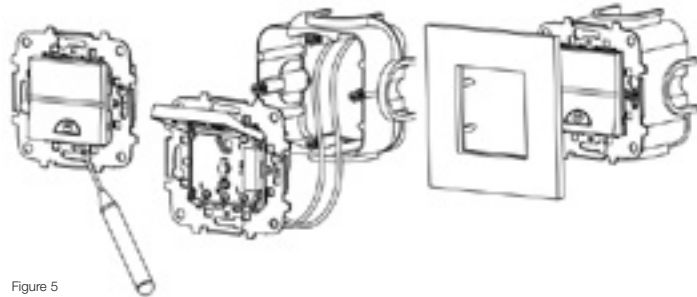


Figure 5

Cover

The current warranty applies only to those articles having a manufacturing defect. It does not apply to the articles damaged as a consequence of a wrong reading of the instructions of installation, or if the installation has been made by a nonspecialized individual. Likewise excluded are the damages caused by the inappropriate use of the device and the defaults produced during transportation.

Validity

This warranty is valid for 24 months from the date of the acquisition of the device.

Important: Ensure that the current warranty certificate is properly filled by the supplier.

Time disconnection switch card N2214.5 XX

1.- Technical Data

Power Supply: 127 V~ / 60 Hz
230 V~ / 50 Hz

Maximum power:

127 V~ / 60 Hz:
 ☀️ 1600 W,  1600 W,  1600 W,  1600 W,  700 W
 230 V~ / 50 Hz:
 ☀️ 3000 W,  3000 W,  3000 W,  3000 W,  1300 W

Night orientation: By a red LED

Operating T°: 0° C +40° C

Protection: IP 20

2.2.- Connection

Important: Disconnect the mains when installing.

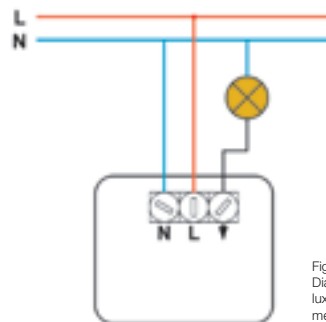
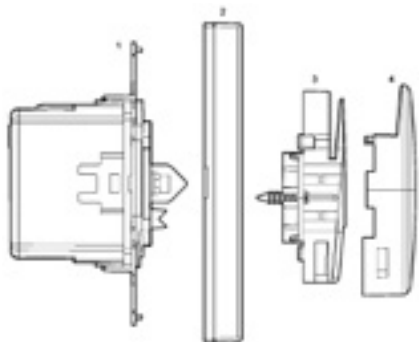


Figure 4
Diagram for luxury connection mechanisms.

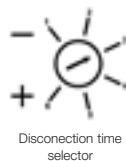
2.- Mounting and connection scheme

2.1.- Mounting



3.- Operation

Time selector for disconnection: The load time disconnection, after removing the card, can be programmed by the user through the rotary programme selector on the device cover.



Option	Time until disconnection		Previous status	Current Status	Action
	50Hz	60Hz			
1.-	5 s.	4 s.	No card	Card detected	Connects load
2.-	10 s.	8 s.			
3.-	20 s.	16 s.			
4.-	30 s.	25 s.	Card detected	No card	Disconnects the load at preset time
5.-	60 s.	50 s.			
6.-	90 s.	75 s.			

4.- Warranty

This product is subject to the warranty offered in the general conditions of sale of ABB in each country.

Movement detector N2241

1.- Introduction

This motion detector device senses the movement of people in an area of 5m (maximum) and in a 110° angle.

Depending on the level of light detected by the light sensor and the motion detected in the covered area the device determines if the load connected to it should be activated or not, thus lighting the area in which it is connected whenever someone passes.

While it is detecting movement, the device maintains the load activated. When it stops detecting motion it disconnects the loads in the preset time.

The device enables remote control through conventional pushbuttons with the use of only one conductor and thus simplifying electrical installations with the possibility to substitute the traditional switched installations.

2.- Technical Characteristics:

Power supply: 230 V~ ; 50 Hz
127 V~ ; 60 Hz

Maximum power:

Incandescent lamps: 1,800 W (230 V~ 50 Hz)
1,000 W (127 V~ 60 Hz)

Halogen lamps with electronic transformer, or halogen lamps with ferromagnetic transformer:
750 VA (230 V~ ; 50 Hz)
400 VA (127 V~ ; 60 Hz)

Fluorescent lamps or motors: 400 VA (230 V~ ; 50 Hz)
200 VA (127 V~ ; 60 Hz)

Voltage free relay output: 2 terminals:

- Control capability through auxiliary pushbuttons (N2X04.X).
- Timer adjustment: Between 10 sec. and 10 minutes.
- Adjustment of light set point level for detection.
- Room temperature for operation: -10° C to 40° C.
- Detection range of the IR motion sensor: Max. 5 metres in a 110° angle.

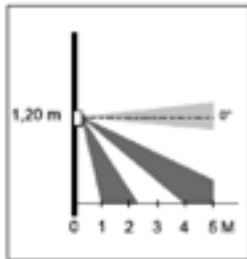


Figure 1. Sensor detection diagram

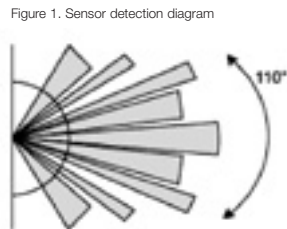


Figure 2. Front view of the device

Front Device Description

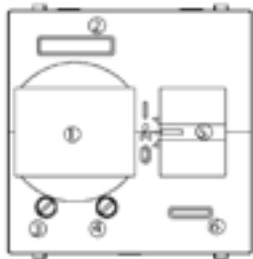


Figure 3. Basic wiring diagram

- 1.- Detection lens
- 2.- Light sensor
- 3.- Light set point selector
- 4.- Timer selector
- 5.- Operating mode selector (3 positions):
I - Always on
A - Automatic (central position)
0 - Always off
- 6.- Red LED, indicator of automatic operating mode. It does not light when operating in modes I and 0.

3.- Wiring

Pre-installation Recommendations

Install the device away from heat sources or draughts.

The sensitivity of this detection device depends on several factors such as temperature, ambient humidity, as well as speed and direction of people's movement.

Before installing the device, it is important to determine where to install it so that it adequately covers the desired detection area.

Basic Wiring

The electrical wiring of these devices is performed according to the wiring diagram shown in Figure 3.

The terminal marked "L" shows the phase wire of the installation. The terminal marked "N" shows the neutral wire of the installation.

The terminals marked $\overline{\text{L}}$ and $\overline{\text{N}}$ represent the two terminals of the relay output (voltage free).

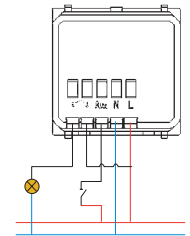


Figure 4. Special wiring diagram

The terminal marked "aux" (control terminal) is used in case it is desired to control the device (optional) from different points through conventional pushbuttons (auxiliary pushbuttons). See wiring diagram in Figure 4.

It is possible to use the device as a crepuscular switch if a switch is connected to the control terminal to a pushbutton.

Note: Pay special attention to the device input and output conductors, according to the previous description.

Make sure to disconnect the power supply before manipulating the device.

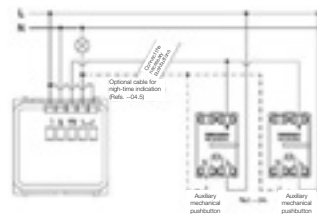


Figure 5: Parallel wiring diagram

Wiring of Several Devices in Parallel

The detection area in a zone can be increased by installing more than one motion detector device.

To ensure that the detection of movement by any of the devices installed activates the load controlled by all of them, their outputs should be wired in parallel to the load. See wiring diagram in Figure 5.

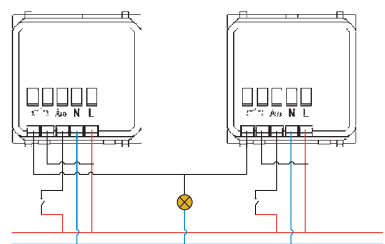


Figure 6: Selection of the Light and Time Threshold

Selection of the Light and Time Threshold

Once the device is wired and installed, based on the type of application, it is important to determine the light value below which the device should activate the load while in Automatic Mode, either by the detection of movement or by pressing the auxiliary pushbutton.

The light set point selector (see Figure 6) enables the selection of the light threshold below which the detector will activate the load.

- If the potentiometer is turned to the left (anti-clockwise), the device will activate the load whenever it detects movement, regardless of the light value, during either day or night.

-If, on the contrary, the potentiometer is turned to the right (clockwise), the device will activate the load when it detects movements under low light conditions, i.e. almost in the dark.

Movement detector N2241



Figure 6: Exploded view of the selection potentiometers for the selection of light and time thresholds.

The load disconnection time is another important parameter that needs to be chosen. The set value will be based primarily on the type of application and the area in which the detector is installed. The time can be chosen easily by turning the time selector potentiometer (see Figure 6).

4.- Installation

To install the device follow these steps

1. Connect the device based on the wiring scheme. Figures 3, 4 and 5.
2. Mount the device on the wall box.
3. Then, position the plate.



Figure 7: Installation for N2241

The load disconnection time is another important parameter that needs to be chosen. The set value will be based primarily on the type of application and the area in which the detector is installed. The time can be chosen easily by turning the time selector potentiometer (see Figure 6).

6.- Operation

The motion detector device has 3 different operating modes that the user can select at any time using the selector located at the front of the device.

The available operating modes are the following:

- I – Always on
- A – Automatic (central position)
- O – Always off

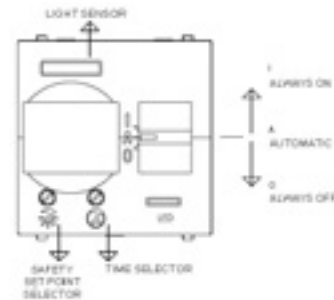


Figure 8: Front view of the device. Operating mode selection

OPERATION:

Operating Mode "I": Always On

How to select the operating mode "Always On"

- The operating selector is in position I: Always On
- The front red pilot is off

In this operating mode, the load is always activated, regardless of the light level or the movement detected within the covered area.

While in this mode, the device does not respond to the auxiliary pushbutton that may be connected to the control terminal.

Operating Mode "I": Always On

How to select the operating mode "Always On"

- The operating selector is in position I: Always On
- The front red pilot is off

In this operating mode, the load is always activated, regardless of the light level or the movement detected within the covered area.

While in this mode, the device does not respond to the auxiliary pushbutton that may be connected to the control terminal.

Operating Mode: Automatic (A). Motion detector.

How to select the operating mode "Automatic"

- The operating selector is in position A: Automatic
- The device indicates it is in the Automatic operating mode by lighting the front red pilot.
- Optionally, the auxiliary pushbuttons wired to the control terminal can be used.

This operating mode enables the independent activation and deactivation of the load, based on the movement detected within the covered area and on whether the light level is above or below the set threshold.

When the device detects movement of people and the light level sensed is below the set point, then it activates the load. With the conditions described above and while the device detects movement, the load will be activated.

Once the device stops detecting movement, it will deactivate the load based on the time set for deactivation; in this way, the device will be on standby until it detects another movement within the covered area.

When one of the auxiliary pushbuttons that may be connected to the control terminal is pushed, the device will behave as if it had detected movement. It will activate the load whenever the light level in the covered area is below the set point and will deactivate the load if no movement is detected within the time set.

Operating Mode: Automatic (A). Motion detector.

How to select the operating mode "Automatic"

- The operating selector is in position A: Automatic
- The device indicates it is in the Automatic operating mode by lighting the front red pilot.
- Optionally, the auxiliary pushbuttons wired to the control terminal can be used.

This operating mode enables the independent activation and deactivation of the load, based on the movement detected within the covered area and on whether the light level is above or below the set threshold.

When the device detects movement of people and the light level sensed is below the set point, then it activates the load. With the conditions described above and while the device detects movement, the load will be activated.

Once the device stops detecting movement, it will deactivate the load based on the time set for deactivation; in this way, the device will be on standby until it detects another movement within the covered area.

When one of the auxiliary pushbuttons that may be connected to the control terminal is pushed, the device will behave as if it had detected movement. It will activate the load whenever the light level in the covered area is below the set point and will deactivate the load if no movement is detected within the time set.

Operation as Crepuscular Switch

The device can be operated as a crepuscular switch, i.e. it can activate the load when the light level is below the set threshold, no matter if there are people moving in the area or not. In the same way, the device may deactivate the load when the light level goes above the selected threshold.

How to select the operating mode "Automatic" when the device works as a crepuscular switch.

- The operating selector is in position A: Automatic
- The device indicates it is in the Automatic operating mode by lighting the front red pilot.
- Instead of using auxiliary pushbuttons, wire a switch to the control terminal and then, wire the terminal to the phase wire. When the switch is closed, the device operates as a crepuscular switch.

This operating mode is a well defined application derived from the device Automatic operating mode. In this mode, the device operates as a crepuscular switch, so that when the front light sensor detects a decrease in the light level below the set threshold, the switch activates the load, regardless whether there is movement of people or not within the covered area.

Once the light in the room collected by the sensor exceeds the set light threshold, it disconnects the load.

Note 1: For the correct operation of the device as a crepuscular switch, the device should be kept away from the light source (load) it controls. In this way, the purpose is that the device's light sensor only collects the room light (not artificial) that will determine if the light loads automatically controlled by the device should be turned on or off.

Note 2: This operating mode automatically decides whether to connect or disconnect the loads, based solely on the light collected by the device's light sensor. Therefore, the operation of the device does not rely on or respond to the movement of people within the covered area, if the switch connected to the control terminal is closed to the phase wire.

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N2268.3	BL, AN, PL, CV	1	21
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N2288	BL, AN, PL, CV, RJ, NA	10	17
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N2373.1	BL, PL, AN, CV, CB, CN, WG, OX, PZ, BN, NT, AL	20	28, 29
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