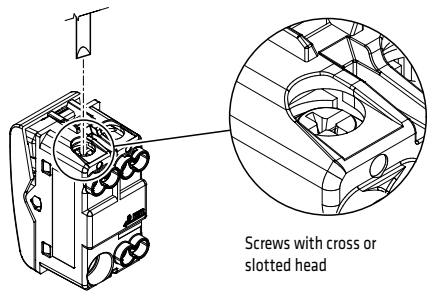
The ChoruSmart modular range allows you to create a wide variety of functions, thanks to the modular structure of the numerous products offered.
In addition to the traditional electromechanical devices (commands, socket-outlets, protection etc.), there are also electronic devices for the command and control of services, such as regulators, timers and dimmers. Furthermore, a wide selection of products has been developed for special services and wireless systems.
The ChoruSmart range for domestic use has a modular structure on flush-mounting frames up to 12 modules. Surface-mounting and free-standing boxes and plates are included, along with watertight plates (IP55) and outdoor containers (IP40 and IP55).

TECHNICAL DATA AND REFERENCE STANDARDS

Component	Reference standards	Essential electrical data*			Prolonged operation (no. of position changes)	Resistance to abnormal heat and fire	
		Resistance at test voltage (V)	Insulation resistance (MΩ)	Breaking capacity or category of use		Thermo-pressure with ball (°C)	Glow Wire Test (°C)
Commands	EN 60669-1	2000 at 50 Hz for 1 minute	> 5	1.25 In (200 position changes)	40,000 at In 250V~ cosφ = 0.6	125	850
Italian Std. socket-outlets	IEC 60884-1			1.25 In (100 position changes)	10,000 at In 250V~ cosφ = 0.8		
International Std. socket-outlets	IEC 60884-1			1.25 In (100 position changes)	10,000 at In 250V~ cosφ = 0.8		
Latching relays	EN 60669-1 / EN 60669-2-2				40,000 at In 250V~ cosφ = 0.6		
Momentary relays	EN 60669-1 / EN 60669-2-2			1.25 In (200 position changes)			
Miniature circuit breakers	EN 60898-1		2** ÷ 5	3KA	8,000		
Residual current circuit breakers	EN 61009-1 / EN 61008-1			3KA	4,000		
Supports and plates	EN 60669-1	–	–	–	–	70	650

* For rated voltages and currents, see the specifications for the individual codes. ** The value of 2 MΩ refers to a special condition established by the Standards given alongside.

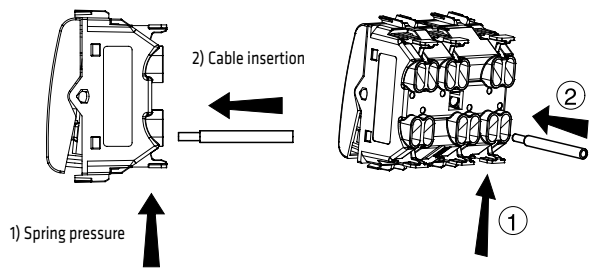
Characteristics of screw terminals



The terminals, located in the rear part of the devices, are manoeuvrable even after coupling the component to the support, and are suitable for both stranded and solid cables. The components are supplied with the screws of the terminals open, to reduce wiring times.

TECHNICAL DATA			
Terminal grip on cable traction			>50N
TERMINAL TIGHTENING CAPACITY			
Stranded wires		Solid wires	
Minimum 0.75mm²	Maximum 2 x 4mm²	Minimum 0.5mm²	Maximum 2 x 2.5mm²

Characteristics of spring terminals

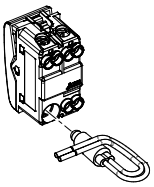
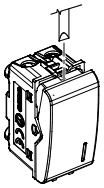
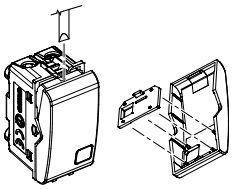
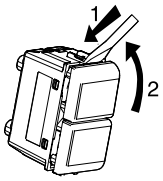
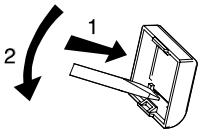


The spring terminals allow you to carry out the wiring in a shorter time, and without using screwdrivers or other tools. To insert the cable, it is necessary to press the orange lever (opening of terminal). Releasing the lever, the terminal closes automatically, firmly blocking the cable.

TECHNICAL DATA			
Terminal grip on cable traction			>50N
TERMINAL TIGHTENING CAPACITY			
Stranded wires		Solid wires	
Minimum 0.75mm²	Maximum 2 x 4mm²	Minimum 0.5mm²	Maximum 2 x 2.5mm²

For technical information visit www.gewiss.com

Features, signalling and localisation of rocker commands

Type of coupling and avantages of unique support	Illuminated devices	Substitution of the button key	Substitution of the signalling lens for functional signalling	Interchangeability of the 22x22mm button keys	
 The front coupling of the ChoruSmart devices makes the support assembly and release operations quick and easy, without the necessity to remove the support. The support is able to accepted both rocker and axial devices.	Seat for insertion of miniature lamps with wired lead 			Replacing a button key 	 Substitution of diffuser and personalised label

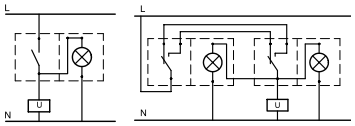
Backlighting of command devices

Type	Use	Applications	Type	Use	Applications
 **Lighting for localisation purposes**	Permits the identification of the command button in the dark, or the indication of the ON/OFF status of a lighting circuit	General services of a building complex (stair lights, entrances, etc.) Public entertainment premises Bedrooms Corridors	 **Diffuser 22x22mm**	Permits the identification of the ON/OFF status of a service or lighting circuit from a distance. The signalling is clearly visible from the front	Signalling of lights coming on outside the place where the command device is installed
 **Lighting for signalling**	Permits the identification of the command button, and its specific function, in the dark	General services Indoor systems for offices, shops, warehouses. Hotel facilities Hospitals and nursing homes	 **Push-buttons with illuminated name plate**	Permits the identification of the command button in the dark, and the reading of the name on the label, even in poorly lit areas	Push-button for call circuits in homes and offices

Examples of function and location lighting

To indicate the operating status of services not visible from the command position

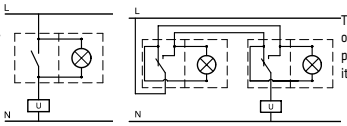
The indicator lamp is located parallel to the service, and is switched on when the one-way switch is ON. The indicator lamp follows the ON/OFF status of the service.



The two indicator lamps and the service are placed in parallel, therefore they switch on and off together with the service

To locate the command key in the dark

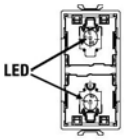
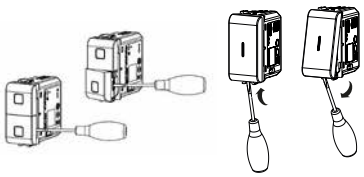
The indicator lamp is switched on when the one-way switch is OFF. With the one-way switch in the ON position, the service is powered and the indicator lamp is switched off.



The two indicator lamps come on when the service is not powered and go off when it is ON.

NOTE: layouts not suitable for commanding compact energy saving lamps, LED lamps and/or relays

Features, signalling and localisation of axial commands

Type of coupling and avantages of unique support	Backlit devices	Ergonomics and functionality	Substitution of the button key for locating and signalling lenses
The front coupling of the ChoruSmart devices makes the support assembly and release operations quick and easy, without the necessity to remove the support. The support is able to accepted both rocker and axial devices. 	 The devices are equipped with configurable blue LEDs that can be set to OFF mode, location or signalling of the connected load.	- The entire control surface is active. For perfect control, the buttons can be operated at any point. - EVO devices are able to realise the OFF function of the loads and the Up/Down function of the shutters with a single centralised control point.	Axial controls are provided without button keys to provide maximum flexibility for customisation and installation, both in functionality and style. Modules are provided without button key and it's possible choose the button key to locate in the dark the device or to indicate functions using over 40 interchangeable lenses. 

Degree of protection of the set of CHORUSMART domestic range devices installed

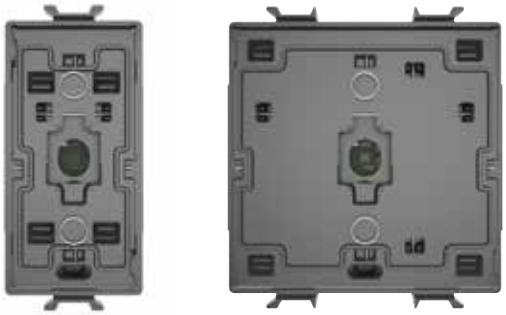
Component	Installation	Reference standard	IP rating
Devices with closed front (commands, bells, indicators, etc.) installed in flush-mounting boxes, surface-mounting boxes, free-standing panels (completed with support and plate) and in self-supporting boxes	Flush-mounting for domestic or similar finish, in vertical position, installed to a high standard	EN60529 (CEI 70-1)	**41**
Devices with open front (socket-outlets, etc.) installed in flush-mounting boxes, surface-mounting boxes, free-standing panels (completed with support and plate) and in self-supporting boxes	Flush-mounting for domestic or similar finish, in vertical position, installed to a high standard. Suitable for use for zone 3 of rooms containing baths or showers.		**X 1** (in case of socket-outlets it is 21)
Devices with open front (socket-outlets, etc.) installed in flush-mounting boxes, surface-mounting boxes, free-standing panels (completed with support and plate) and in self-supporting boxes	Flush-mounting for domestic or similar finish, in vertical position, installed to a high standard **with plug inserted**		**4 X**

EVO axial one-way switch modules

Axial switch modules are axial actuated devices that are ideal for controlling loads and executing the centralisation OFF command.
They have a pleasant feel to the touch, thanks to the reduced stroke of the buttons and the lower pressure required for activation. Plus, the soft-click activation, reminiscent of digital controls, makes them extremely quiet.

Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN 60669-2-1
EN IEC 63000

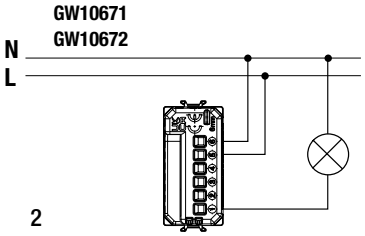
TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
Auxiliary inputs	2
Type of load:	
Max power for incandescent lamps	500W (100 V ac) 1.000W (240 V ac)
Max power for LEDs (max 5 lamps)	50W (100 V ac) 100W (240 V ac)
Max power for fluorescent lamps (max 6 lamps)	60W (100 V ac) 120W (240 V ac)
Max power for halogen lamps controlled by electronic transformer	125VA (100 V ac) 250VA (240 V ac)
LED	1 blue LED
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°C
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With button key installed)
Dimensions	GW 10 671 – 1 ChoruSmart module GW 10 672 – 2 ChoruSmart modules



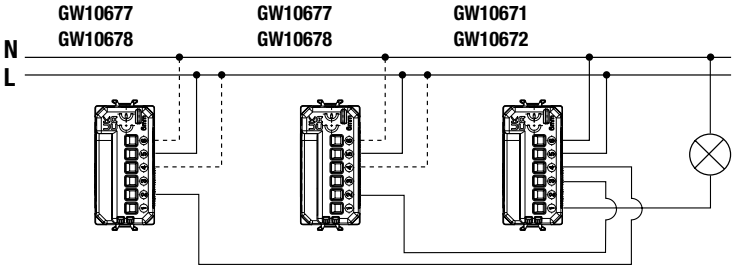
GW10024825

GW 10 671 – GW 10 672

Wiring diagram



EVO axial one-way switch module connected to a load



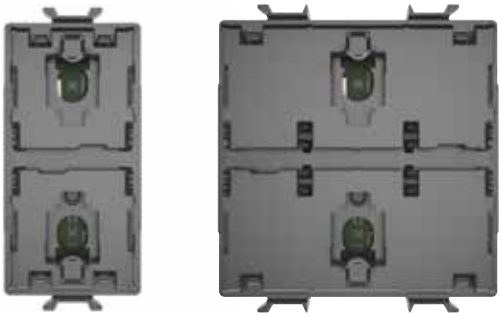
EVO axial one-way switch module connected to a load and wired so it can be commanded via a local command and receive the centralised "OFF only" command

EVO axial dimmer module

Axial dimmer modules are axial actuated devices that are ideal for dimming loads and executing the centralisation OFF command.
They have a pleasant feel to the touch, thanks to the reduced stroke of the buttons and the lower pressure required for activation. Plus, the soft-click activation, reminiscent of digital controls, makes them extremely quiet.

Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN 60669-2-1
EN IEC 63000

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
Auxiliary inputs	2
Type of load:	
Max power for incandescent lamps/ alogene	4 ÷ 75W (100 V ac) 4 ÷ 150W (240 V ac)
Max power for LEDs (max 5 lamps)	4 ÷ 75W (100 V ac) 4 ÷ 150W (240 V ac)
Max power for halogen lamps controlled by electronic transformer	4 ÷ 150VA (240 V ac)
LEDs	2 blue LEDs
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°C
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With button key installed)
Dimensions	GW 10 673 – 1 ChoruSmart module GW 10 674 – 2 ChoruSmart modules

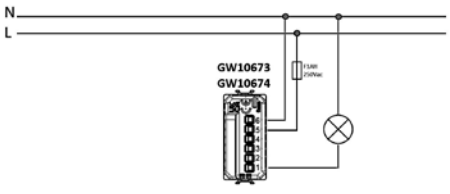


GW10024827

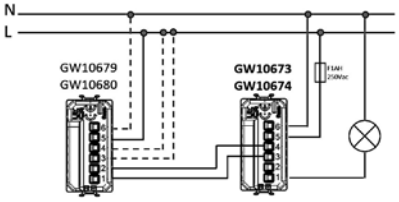
GW 10 673 – GW 10 674

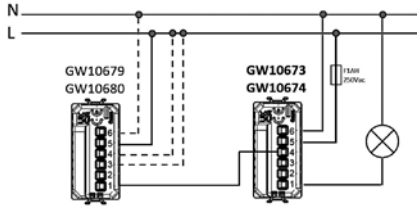
Wiring diagram

EVO axial dimmer module connected to a load



EVO axial dimmer module connected to a load and wired so it can be commanded via an external command, with the local command function.





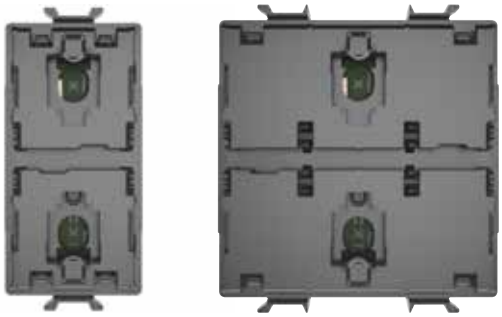
EVO axial dimmer module connected to a load and wired so it can be commanded via an external command, with the centralised command function (OFF only).

EVO axial roller shutter modules

Evo axial roller shutter modules are devices for controlling a motor to operate roller shutters, curtains, venetian blinds, roller blinds, etc., via 2 interlocked output contacts, are able to create the Up/Down centralisation function.
They have a pleasant feel to the touch, thanks to the reduced stroke of the buttons and the lower pressure required for activation. Plus, the soft-click activation, reminiscent of digital controls, makes them extremely quiet.

Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN 60669-2-1
EN IEC 63000

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
Auxiliary inputs	2
Max current supplied	2,3 A 240 V ac (according to IEC 60669-2-1) 450W (cosf 0,6 - 240 V ac)
LEDs	2 blue LEDs
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°C
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With button key installed)
Dimensions	GW 10 675 – 1 ChoruSmart module GW 10 676 – 2 ChoruSmart modules

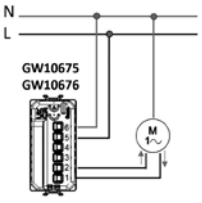


GW10024827

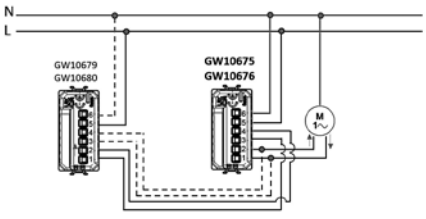
GW 10 675 – GW 10 676

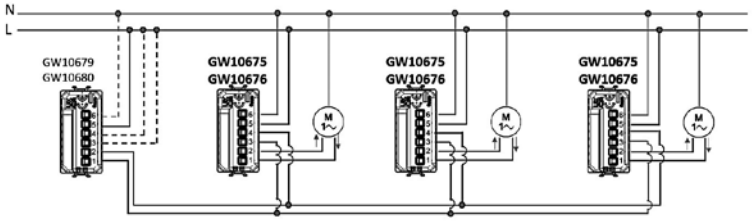
Wiring diagram

EVO axial roller shutter module connected to a load.



EVO axial roller shutter module connected to a load and wired so it can be commanded via an external command, with the local command function.





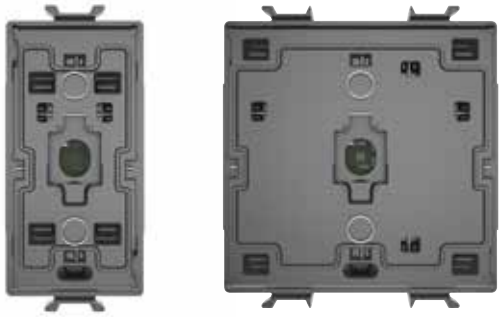
EVO axial roller shutter modules each connected to a load and wired so they can be commanded via an external command, with the centralised command function.

1 command auxiliary axial modules

Modules with 1 auxiliary axial command are devices that connect to the local inputs of the EVO axial controls, they replicate the command of the local load or manage the centralization function.
They have a pleasant feel to the touch, thanks to the reduced stroke of the buttons and the lower pressure required for activation. Plus, the soft-click activation, reminiscent of digital controls, makes them extremely quiet.

Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN IEC 63000

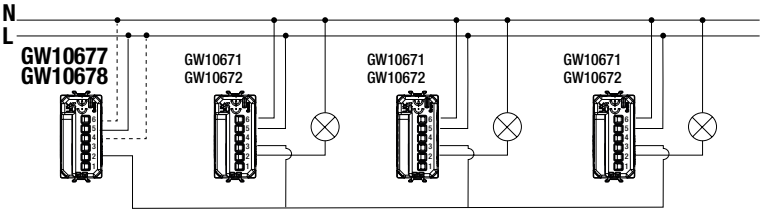
TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
LEDs	1
Power of LEDs	0,4W
Output contacts	1A AC1 (240 V ac)
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°C
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With button key installed)
Dimensions	GW 10 677 – 1 ChoruSmart module GW 10 678 – 2 ChoruSmart modules



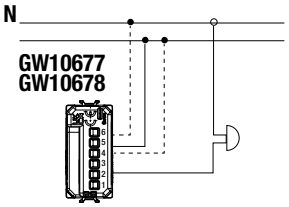
GW10024825

GW 10 677 – GW 10 678

Wiring diagram



Module with 1 auxiliary axial command with wired LEDs for the Localisation function, and connected - as a centralised OFF command - to 3 EVO axial one-way switches



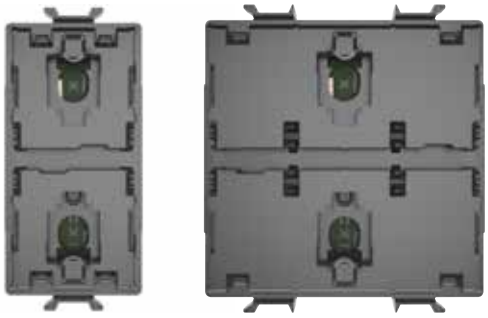
Module with 1 auxiliary axial command with wired LED for the Localisation function, and connected for the direct command of a 230V AC ringer (max 10VA)

2 commands auxiliary axial modules

Modules with 2 auxiliary axial commands are devices that connect to the local inputs of the EVO axial controls, they replicate the command of the local load or manage the centralization function.
They have a pleasant feel to the touch, thanks to the reduced stroke of the buttons and the lower pressure required for activation. Plus, the soft-click activation, reminiscent of digital controls, makes them extremely quiet.

Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN IEC 63000

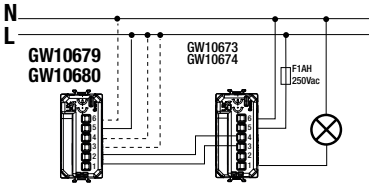
TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
LEDs Inputs	2
Power of LEDs	2 x 0,4W
Output contacts	2 x 1A AC1 (240 V ac)
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°C
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With button key installed)
Dimensions	GW 10 679 – 1 ChoruSmart module GW 10 680 – 2 ChoruSmart modules



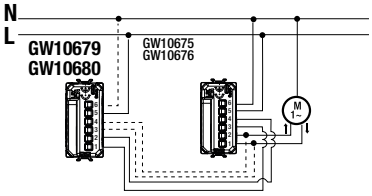
GW10024827

GW 10 679 - GW 10 680

Wiring diagram

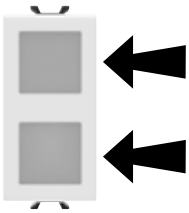


Module with 2 auxiliary axial commands with wired LEDs for the Localisation function, and connected as a centralised UP/DOWN command to 3 EVO axial commands.



Module with 2 auxiliary axial commands with wired LEDs for the Localisation function, and connected to a system with a connected axial motor command.

Features of TOUCH commands

Type of coupling and avantages of unique support	Backlit devices	Ergonomics and functionality	Identifying product functions
 The front coupling of the ChoruSmart devices makes the support assembly and release operations quick and easy, without the necessity to remove the support. The support is able to accepted rocker, axial and touch devices.	 All touch devices are equipped with blue LEDs, with two brightness levels.	- For a perfectly control, touch devices are equipped with a buzzer that can be set on or off. - TOUCH devices are able to realise the OFF function of the loads and the Up/Down function of the shutters with a single centralised control point.	 ICE TOUCH plates are equipped with a sheet of symbols that clearly identify the function performed by the device.

TOUCH one way switch

Touch one way switch module is a device that is ideal for controlling loads and executing the centralisation OFF command.
They have a pleasant feel, thanks to the short key travel and less pressure required for activation. In addition, the soft-click operation, reminiscent of digital controls, makes them extremely quiet. Functions can be identified by the symbols on the ICE TOUCH plates.

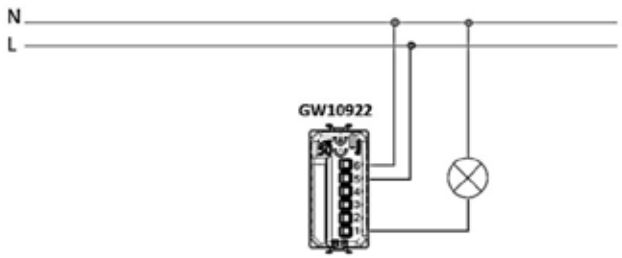
Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN 60669-2-1
EN IEC 63000

GW10024843

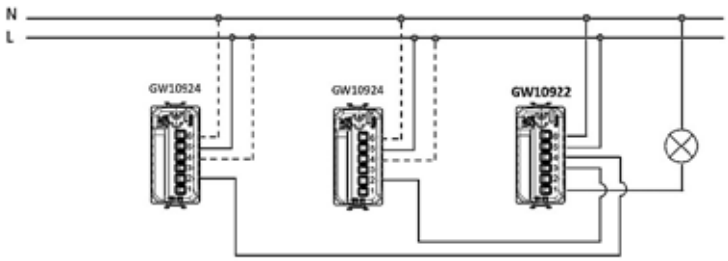
GW 10 922

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
Auxiliary inputs	2
Type of load:	
Max power for incandescent lamps	500W (100Vac) 1.000W (240Vac)
Max power for LEDs (max 5 lamps)	50W (100Vac) 100W (240Vac)
Max power for fluorescent lamps (max 6 lamps)	60W (100Vac) 120W (240Vac)
Max power for halogen lamps controlled by electronic transformer	125VA (100Vac) 250VA (240Vac)
LEDs	2 blue LEDs (two levels of light intensity)
Buzzer	Can be set on ON or OFF
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°C
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With plate installed)
Dimensions	1 ChoruSmart module

Wiring diagram



Touch one-way switch module connected to a load



Touch one-way switch module connected to a load and wired so it can be commanded via a local command and receive the centralised "OFF only" command

TOUCH dimmer module

Touch dimmer module is a device that is ideal for dimming loads and executing the centralisation OFF command.
They have a pleasant feel, thanks to the short key travel and less pressure required for activation. In addition, the soft-click operation, reminiscent of digital controls, makes them extremely quiet. Functions can be identified by the symbols on the ICE TOUCH plates.

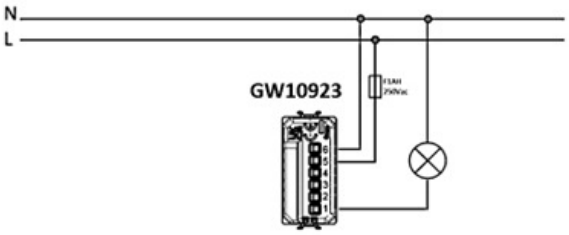
Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN 60669-2-1
EN IEC 63000

GW10024843

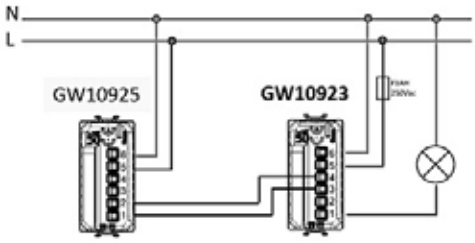
GW 10 923

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
Auxiliary inputs	2
Type of load:	
Max power for incandescent lamps/ alogene	4 ÷ 75W (100Vac) 4 ÷ 150W (240Vac)
Max power for LED (max 5 lamps)	4 ÷ 75W (100Vac) 4 ÷ 150W (240Vac)
Max power for halogen lamps controlled by electronic transformer	4 ÷ 150VA (240Vac)
LEDs	2 blue LEDs (two levels of light intensity)
Buzzer	Can be set on ON or OFF
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With plate installed)
Dimensions	1 ChoruSmart module

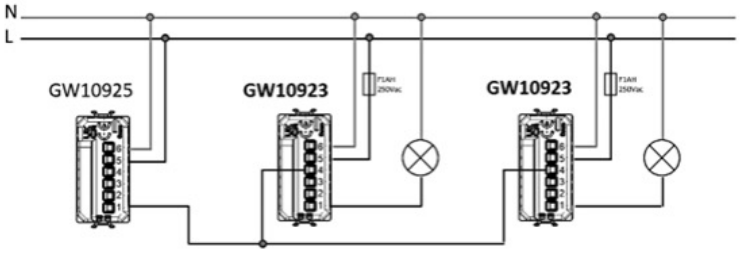
Wiring diagram



Touch dimmer module connected to a load.



Touch dimmer module connected to a load and wired so it can be commanded via an external command, with the local command function.



Touch dimmer module connected to a load and wired so it can be commanded via an external command, with the centralised command function (OFF only).

TOUCH roller shutter module

Touch roller shutter module is a device for controlling a motor to operate roller shutters, curtains, venetian blinds, roller blinds, etc., via 2 interlocked output contacts, is able to create the Up/Down centralisation function.
They have a pleasant feel, thanks to the short key travel and less pressure required for activation. In addition, the soft-click operation, reminiscent of digital controls, makes them extremely quiet. Functions can be identified by the symbols on the ICE TOUCH plates.

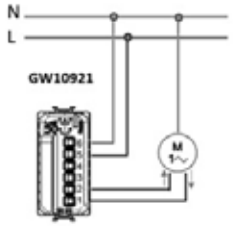
Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN 60669-2-1
EN IEC 63000

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
Auxiliary inputs	2
Max current supplied	2,3 A 240 V ac (according to IEC 60669-2-1) 450W (cosf 0,6)
LEDs	2 blue LEDs (two levels of light intensity)
Buzzer	Can be set on ON or OFF
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With plate installed)
Dimensions	1 ChoruSmart module

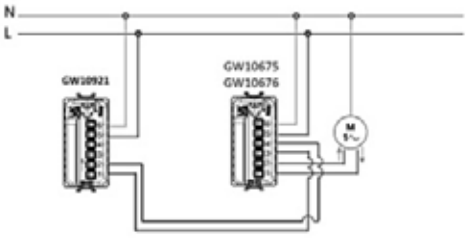
GW10024843

GW 10 921

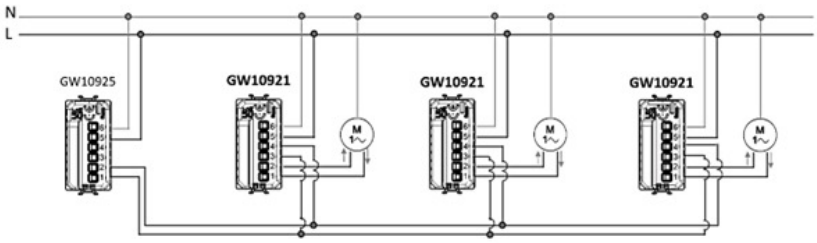
Wiring diagram



Touch roller shutter module connected to a load.



Touch roller shutter module connected to a load and wired so it can be commanded via an external command, with the local command function.



Touch roller shutter modules each connected to a load and wired so they can be commanded via an external command, with the centralised command function.

1 command auxiliary TOUCH module

Touch module with 1 auxiliary axial command is a devices that connect to the local inputs of the touch controls, they replicate the command of the local load or manage the centralization function.
They have a pleasant feel, thanks to the short key travel and less pressure required for activation. In addition, the soft-click operation, reminiscent of digital controls, makes them extremely quiet. Functions can be identified by the symbols on the ICE TOUCH plates.

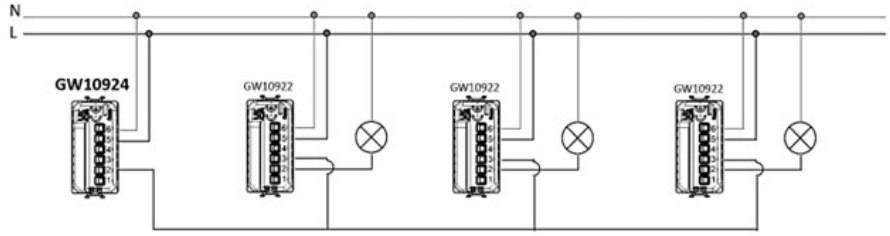
Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN IEC 63000

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
LEDs	2 blue LEDs (two levels of light intensity)
Buzzer	Can be set on ON or OFF
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With plate installed)
Dimensions	1 ChoruSmart module

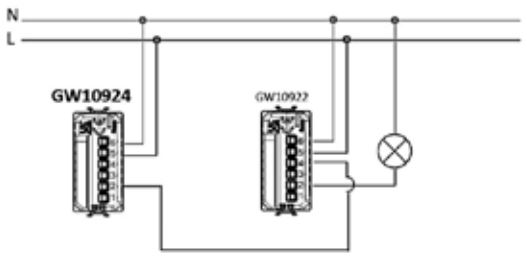
GW10024843

GW 10 924

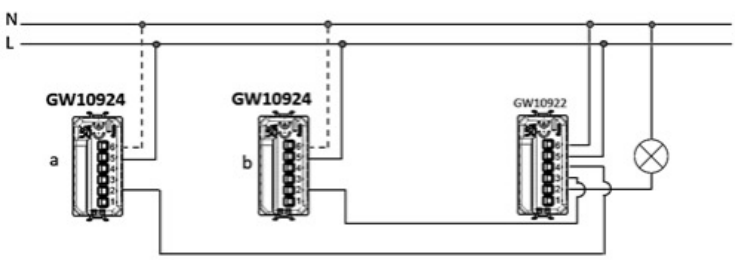
Wiring diagram



Auxiliary touch control module 1 connected as centralised OFF control to 3 touch switch modules



Modulo 1 comando touch ausiliario collegato come comando locale di un modulo interruttore touch



No. 2 Modules 1 auxiliary touch control connected as: local control (a) and as central control (b) to a touch switch module

For technical information visit www.gewiss.com

2 commands auxiliary TOUCH module

Touch module with 2 auxiliary axial commands is a devices that connect to the local inputs of the touch controls, they replicate the command of the local load or manage the centralization function.
They have a pleasant feel, thanks to the short key travel and less pressure required for activation. In addition, the soft-click operation, reminiscent of digital controls, makes them extremely quiet. Functions can be identified by the symbols on the ICE TOUCH plates.

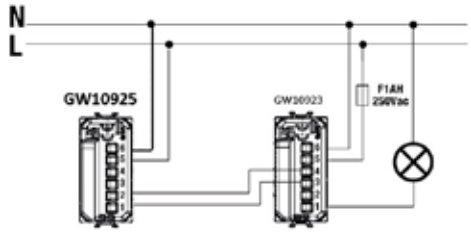
Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
RoHS Directive 2011/65/EU + 2015/863
EN 60669-1
EN IEC 63000

TECHNICAL DATA	
Power supply voltage	100 ÷ 240 V ac, 50 / 60 Hz
LED	2 blue LEDs (two levels of light intensity)
Buzzer	Can be set on ON or OFF
Terminals	Screwed, max section 1,5mm²
Operating temperature	-5°C ÷ +45°
Relative humidity (non condensative)	Max 93%
Degree of protection	IP20 (With plate installed)
Dimensions	1 ChoruSmart module

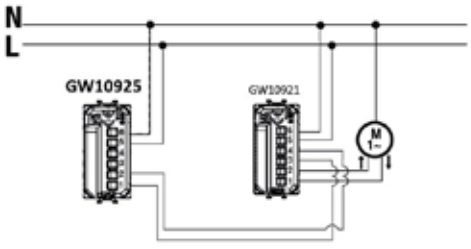
GW10024843

GW 10 925

Wiring diagram



Auxiliary touch control module 2 connected as local or central control of a touch dimmer module



Auxiliary touch control module 2 connected as local or centralised control of a touch shutter module

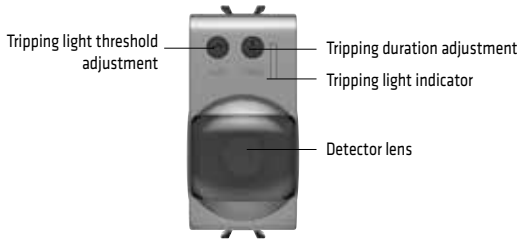
COMMAND

Infrared movement detectors

The passive infrared movement detector senses temperature variations within its range of action and, depending on the environmental light, closes a relay contact. When movement stops, the contact automatically opens again after an adjustable set time. The device incorporates a light-sensitive sensor with an adjustable trip threshold to avoid controlling the circuit (e.g. lighting equipment) when not necessary.

Fixed lens

Reference standards: EN 60669-1, EN 60669-2-1

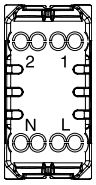


GW 10 594 - GW 12 594 - GW 13 594 - GW 14 594 - GW 15 594

NOTE: Not suitable for compensated fluorescent lamps, for discharge lamps and for those loads not indicated; please use an auxiliary relay to control such lamps.

TECHNICAL DATA	
Power supply voltage	230V AC - 50/60 Hz
Light-sensitive threshold setting	10 lux - max. inhibited
Activation duration setting	15 sec / 10 min
Output contact	1 NO 3A (AC1) 250V ac, potential-free
Type of load:	
Resistive loads	700W
Incandescent lamps	450W
Low voltage halogen lamps (12V)	450W
Uncompensated fluorescent lamps	2x58W
Motors and motor reduction units	400VA
Operating temperature	-5 to +40°C
Relative humidity	max. 93% non condensative
Dimensions	1 ChoruSmart module

The exclusion of the light-sensitive threshold is obtained by positioning the luminosity selector at the maximum.

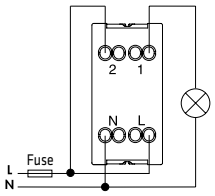


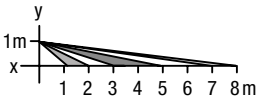
Wiring terminals

Power supply:
L - Phase
N - Neutral

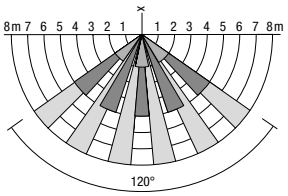
Potential-free output:
1 / 2 - NO contact

Connection diagram





Coverage diagram



Celeing-mounting presence detector

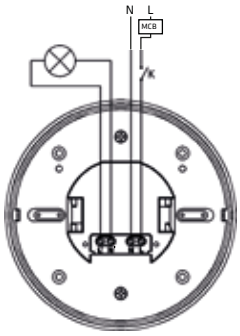
Presence sensor installable with fixing springs on a surface-mounted or recessed box. Equipped with a surface-mount box capable of holding sensors from IP20 to IP44.

Reference Standards:
Low voltage Directive 2014/35/EU (LVD)
Electromagnetic Compatibility Directive 2014/30/EU (EMC)
RoHS Directive 2011/65/EU
EN 60669-1
EN 60669-2-1

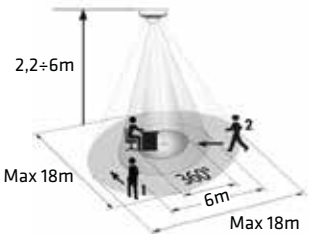
GW 10 595

TECHNICAL DATA	
Power supply voltage	220/240 V ac - 50/60 Hz
Measuring of light intensity	<3 ÷ 2000 lux
Type of load:	
- Max power for incandescent lamps/alogene	1.000W
- Max power for LEDs	200W (4W / 23W – max. 8 lamps)
Degree of protection	IP20 (IP44 with surface-mounting box)
Operating temperature	- 20°C ÷ +35 °C

Wiring diagram



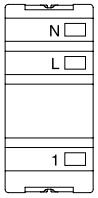
Operating range



Latching relay

Electromechanical relay (of the latching type) for commanding lamps from more than one point.

Reference standards: EN 60669-1;EN 60669-2-2



Wiring terminals

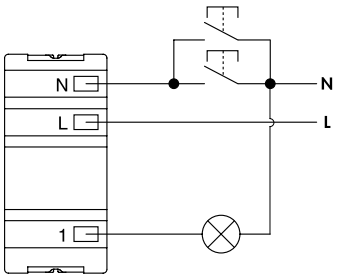
Power supply:
L - Phase
N - Neutral

230V AC output:
1 - Load power supply contact

GW 10 721 - GW 12 721 - GW 13 721 - GW 14 721 - GW 15 721

TECHNICAL DATA	
Power supply voltage (coil)	230V AC 50/60 Hz
Output contact	10AX 250V AC
Number of poles	1
Dimensions	1 ChoruSmart module

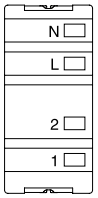
Connection diagram



4 sequence latching relay

Electromechanical relay with 4 sequences for commanding two independent circuits, in the sequence: open-open, open-closed, closed-open, closed-closed.

Reference standards: EN 60669-1;EN 60669-2-2



Wiring terminals

Power supply:
L - Phase
N - Neutral

230V AC output:
1 - Contact 1
2 - Contact 2

GW 10 723 - GW 12 723 - GW 13 723 - GW 14 723 - GW 15 723

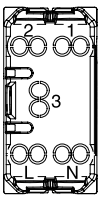
TECHNICAL DATA	
Power supply voltage (coil)	230V AC 50/60 Hz
Output contact	10AX 250V AC
Number of poles	2
Dimensions	1 ChoruSmart module

NUMBER OF IMPULSES	SEQUENCES			
	1	2	3	4
4				

Momentary relay

Electromechanical momentary relay suitable for creating automatisms or separations between the command circuit and the energy circuit. Can be used as an auxiliary element for controlling special loads.

Reference standards: EN 60669-1;EN 60669-2-2



Wiring terminals

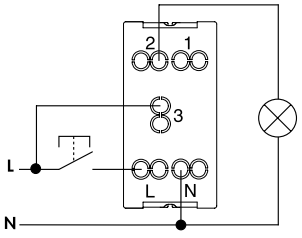
Power supply:
L - Phase
N - Neutral

Potential-free output:
1 - NC contact
2 - NO contact
3 - Common

GW 10 724 - GW 12 724 - GW 13 724 - GW 14 724 - GW 15 724

TECHNICAL DATA	
Power supply voltage (coil)	230V AC 50/60 Hz
Output contact	1 NO/NC 10A (AC1) /2A (AC15) 250V AC 50/60Hz
Number of poles	1
Dimensions	1 ChoruSmart module

Connection diagram



For technical information visit www.gewiss.com

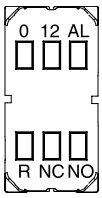
Call relay

“Bathroom Alarm” call system

Since each Country establishes its own technical regulations in order to avoid architectural barriers, here below is represented only an example for the creation of hygene services for people with a disability.
From the electrical point of view, in particular there must be an emergency bell located near the toilet and the bath.
The alarm circuit must be activated by means of a pull-cord push-button (emergency bell) which, if pressed again, does not silence the alarm.
The return to a condition of normality can only be obtained by pressing a remote push-button connected to the “reset” input of the relay.
In order to avoid the unintentional resetting of the alarm, the use of the key push-buttons (e.g. code GW 10 145, GW 12 145 and GW 14 145) is recommended.
Apart from the inputs for the “AL” alarm push-button and the “R” reset push-button, the Gewiss call relay, powered at 12V AC/DC, also includes an NO + NC output contact with 12V potential for managing acoustic/light signalling.

Reference standards: EN 60669-1;EN 60669-2-2

GW 10 726 - GW 12 726
GW 13 726 - GW 14 726 - GW 15 726



Wiring terminals

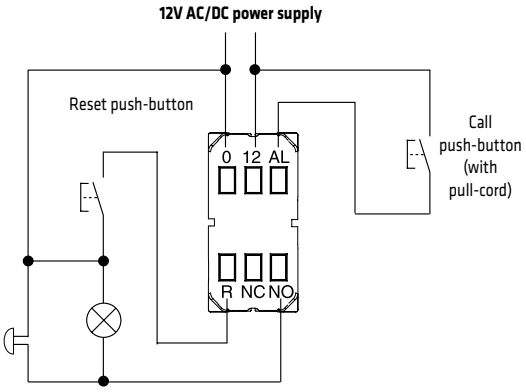
12V power supply: 0 / 12

Inputs:
AL - alarm push-button
R - reset push-button

12V output contacts:
NO - normally open contact
NC - normally closed contact

TECHNICAL DATA	
Power supply voltage (coil)	12V AC/DC
Output contact	1 NO/NC 1A 12V DC
Dimensions	1 ChoruSmart module

Connection diagram



SOCKET-OUTLETS

Multistandard socket-outlets

The multistandard socket-outlets accept different types of plugs, guaranteeing always the right connection.
They are provided with safety shields and are suitable for use in environments such as hotels, airports, meeting rooms, etc.

Reference standards: IEC 60884-1

GW 10 310 - GW 12 310
GW 13 310 - GW 14 310 - GW 15 310

TECHNICAL DATA	
Type of socket-outlet	2P+E - 13A/250Vac - 15A/127Vac with safety shields
Terminal block	with screws (for rigid and stranded cables) up to 14mm^2)
Protection degree	IP20
Plugs compatibility	Europlug 2P 2.5A - 250V British 2P+E 13A - 250V Italian 2P 10A - 250V Danish 2P 10A - 250V Chinese 2P+E 10A - 250V Argentinean/Australian 2P+E 10A - 250V Indian 2P+E 6A - 250V USA 2P+E 15A - 127V Not suitable for 2P+E German and French sockets because they don't offer earth continuity
Dimensions	2 ChoruSmart modules

NOTES: the multistandard energy sockets GW 1x 310 are in compliance with the safety requirements defined by the International Standard IEC 60884-1. These sockets may not be in compliance with the standard sheets used in the country where they are sold, hence their usage could be prohibited or however, restricted only for specific applications. The plugs allowed are listed in the technical datasheet. Please contact directly Gewiss technical service for further information.

SOCKET-OUTLETS

Italian and international standards

Italian

Power supply for household appliances, lighting devices, portable appliances, etc. Multiple sockets to reduce wiring times.

Power supply of equipments through dedicated lines.

Italian/German

Power supply for household appliances, lighting devices, portable appliances, etc.

Power supply of equipments through dedicated lines.

German

Power supply for household appliances, lighting devices, portable appliances, etc. Sockets provided with a IP40 transparent lid.

Power supply of equipments through dedicated lines.

French

Power supply for household appliances, lighting devices, portable appliances, etc.

Power supply of equipments through dedicated lines.

British

Power supply for household appliances, lighting devices, portable appliances, etc.

Main international standards: USA, Euroamerican, Israelian, Argentinian, Australian, Chinese, etc.

Power supply for household appliances, lighting devices, portable appliances, etc.

German and french standard sockets with front tightening of terminals

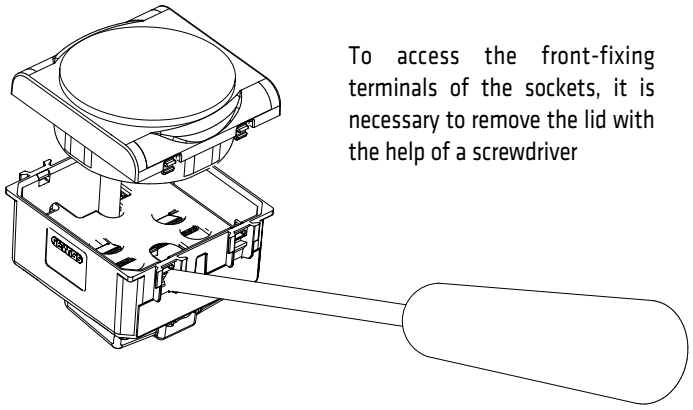
The German and French Standard sockets with front tightening of terminals allow you to check the correct fixing of the cables once the installation is completed and, thanks to the side output, they also allow a reduced bulk of the wiring in the box (flush-mounting or surfacemounting).

GW 10 341
GW 12 341
GW 13 341
GW 14 341
GW 15 341

GW 10 351

GW 10 248
GW 12 248
GW 13 248
GW 14 248
GW 15 248

GW 10 258



To access the front-fixing terminals of the sockets, it is necessary to remove the lid with the help of a screwdriver

Terminal tightening screws

Removable front lid

French standard socket for allocated lines, with front tightening terminals

GW 10 258

GW 10 260

This French Standard socket allows you to identify and privilege an energy take-off point, in order to prevent the powering of devices excluded from the allocated line. The sockets are equipped with a supplementary honeycomb for the mechanical release of the safety shields. The plugs of the services connected to these circuits require the accessory (GW 10 260) which, when fixed on the front of the plug, allows you to unblock the protection system.

Plugs and sockets for dedicated lines

Functional characteristics

The plugs and sockets for dedicated lines allow the clear differentiation of a power outlet intended for special applications, avoiding the connection of services not envisaged for this circuit.

APPLICATION EXAMPLES*:

Red:
Line fed by UPS static system

If the sockets installed inside the same box have different power supply lines, separate the circuits by mean of the special divider.

Green:
Line fed by mains power supply/generating set

If the sockets installed inside the same box have different power supply lines, separate the circuits by mean of the special divider.

Orange:
Line powered by mains/generator and insulation transformer

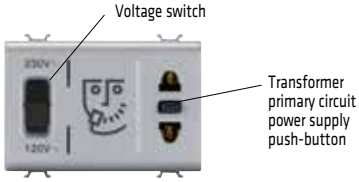
If the sockets installed inside the same box have different power supply lines, separate the circuits by mean of the special divider.

* There are no relevant regulatory provisions, therefore the examples of colour use are only a guide.

Euro-american standard shaver socket with insulation transformer

The shaver socket includes a powered insulation transformer 20VA, automatically fed upon the insertion of the plug. There is also a selector that allows you to change the voltage of the secondary circuit of the transformer. Especially suitable for use in hotel facilities.

Reference standards: EN 61558-2-5



GW 10 331 - GW 12 331 - GW 13 331 - GW 14 331 - GW 15 331

TECHNICAL DATA	
Insulation transformer in compliance with CEI 96-1 standards:	Primary: 230V ac
	Secondary: 120 and 230V ac
	Frequency: 50/60Hz
	Power: 20 VA
	Overload protection via PTC with automatic reset
Euro-American 2P socket suitable for:	American standard plugs 6.3 x 1.5 Centre distance 12.7mm
	British 2.5A Standard plugs (plug pins Ø 5mm)
	European plugs 2.5A
	Italian Standard plugs 2 x 10A - type S10

Interlocked switched socket-outlets

Many danger situations in the domestic environment are caused by faults or insulation leaks in the service devices (especially the portable ones), occurring when the appliance is fed.
Gewiss has created interlocked switched socket-outlets with a bipolar switch (both miniature circuit breaker and residual current circuit breaker with overcurrent protection), suitable for installation in the system terminations for load protection. These socket-outlets guarantee that the holes are only connected to the voltage when the plug is inserted, to prevent the formation of electrical arcs when the plug is inserted and removed.
The automatic circuit breaker is immediately disconnected when the plug is pulled out.

Reference standards: CEI 23-50 (IEC 60884-1), EN 60898, EN 61009-1

GW 10 321
GW 12 321
GW 13 321
GW 14 321
GW 15 321

GW 10 311
GW 12 311
GW 13 311
GW 14 311
GW 15 311

TECHNICAL DATA	
Power supply voltage	230V AC
Rated current	16A
Breaking capacity	3 kA
Rated residual current	10mA
Characteristic of the miniature circuit breaker tripping	C characteristic
Type of residual current devices	Class A
Number of poles	1P + N / 1P
Type of socket-outlet	2P + E 16A dual amperage
	2P + E 16A dual amperage, Italian/ German Standard
Dimensions	GW 1x 331 - 2 ChoruSmart modules (Colonna dx) GW 1x 321 - 3 ChoruSmart modules

1- the absence of voltage on the holes is ensured.

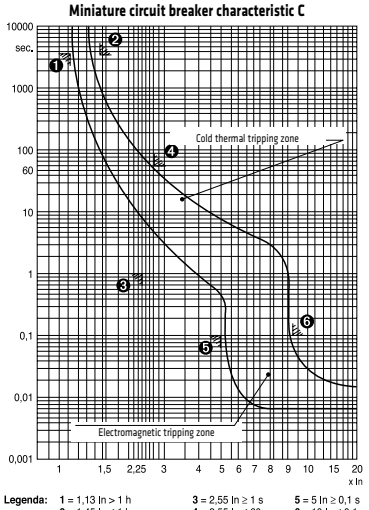
2- only with the plug completely inserted is it possible to close the circuit breaker.

3- the circuit breaker opens automatically when you begin to remove the plug.

4- protection is guaranteed in the event of short-circuiting/overloading and (where a residual current circuit breaker is envisaged) also in the event of direct or indirect contact.

Tripping characteristics

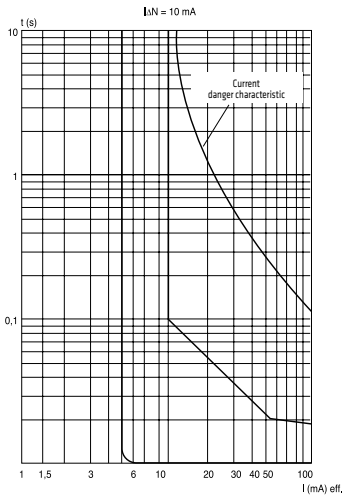
Miniature circuit breaker characteristic C



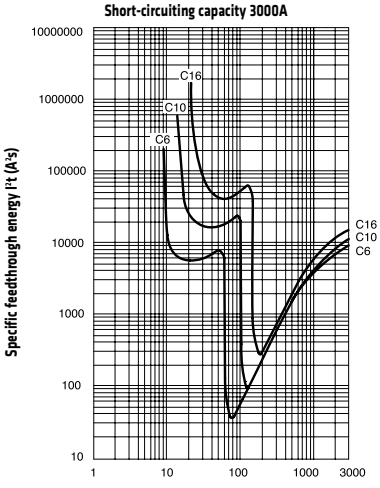
Legenda: 1 = 1,13 In > 1 h; 2 = 1,45 In ≤ 1 h; 3 = 2,55 In ≥ 1 s; 4 = 2,55 In ≤ 60 s; 5 = 5 In ≥ 0,1 s; 6 = 10 In ≤ 0,1 s

Key:

Residual current circuit breaker



Short-circuiting capacity 3000A



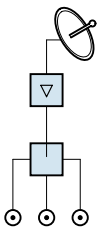
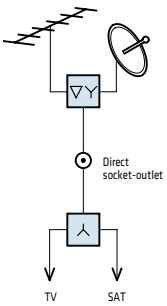
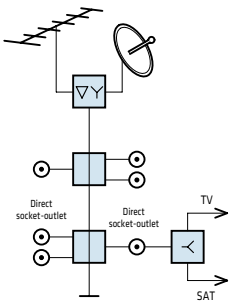
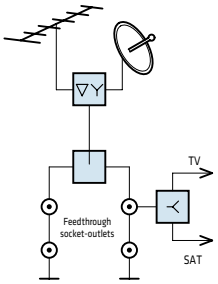
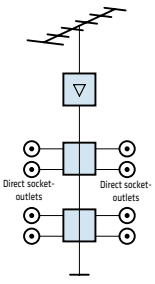
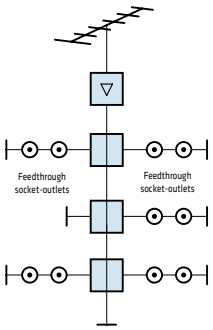
For technical information visit www.gewiss.com

SIGNAL

TV-SAT socket-outlets

The development of television transmission systems and of services intended for the user has raised the performance and quality level required for signal distribution systems.
The EN 60728 standards (systems for distribution of television and sound signals via cable) define the present and future European standard and establish the requisites that the various parts of the system (including the terminal socket-outlets) must meet.
Thanks to their high performance level, these socket-outlets offer optimal distribution of the signals, both digital and analogue, as required by the various drivers for access to present and future services.

CHARACTERISTICS	ADVANTAGES
• Shielding efficiency (in compliance with standard EN 60728-4).	• The socket-outlets are in a metal shell and are unaffected by the electromagnetic emissions (EMC) present in the environment.
• Impedance adaptation. • System for the quick and safe connection of the coaxial cable.	• Undesired signal reflections are avoided. • Maintains the co-axiality of the cable in the connection point.
• A range featuring two types: user ports with F connector (type EN 60169-24) and with male IEC connector Ø 9.5mm (in compliance with HD134.2 S2).	• Maximum application flexibility with single or centralised systems (new / restored / arrangements for future extensions). • In satellite reception, due to the frequency range, it is very important to maintain the co-axiality of the connection, which is a requirement fully met by the innovative connection and the use of the F connector.

APPLICATIONS	TV		SAT	TV-SAT		
	Centralised system with star distribution	Centralised system with cascade distribution	SAT system for single user	Combined TV-SAT system for single user	Combined TV-SAT centralised system with star distribution	Combined TV-SAT centralised system with feedthrough socket-outlets
						
						

"F" female connector

"IEC" male connector

TECHNICAL DATA	
Frequency field	From 5 to 2400 MHz
Diameter of the coaxial cable	From Ø 5 to Ø 7mm
Return channel	From 5 to 40 MHz
Shielding	Class A
Chrominance/luminance delay difference	< 1 ns. for all models
User port - TV socket-outlet	Male IEC coaxial connector Ø 9.5mm
User port - TV-SAT socket-outlet	F coaxial connector (female)

TV-FM-SAT socket-outlets

The TV-FM-SAT socket-outlets of 2 modules allow the contemporary connecting of more than one device. The socket-outlets consist of:
- male IEC coaxial TV socket-outlet connector
- female F coaxial TV-SAT socket-outlet connector
- female IEC radio socket-outlet connector

GW 10 381 - GW 12 381 - GW 13 381 - GW 14 381 - GW 15 381

GW 10 382 - GW 12 382 - GW 13 382 - GW 14 382 - GW 15 382

GW 10 383 - GW 12 383 - GW 13 383 - GW 14 383 - GW 15 383

Code	Type of socket-outlet	Cut-out attenuation (base loss)	Insulation (average value between the ports)	Return loss (input port)			Current passage		
				Return channel 5-40 MHz.	TV 47-862 MHz.	SAT 950-2400 MHz.	TV	FM	SAT
GW 1X 381	TV - FM	<1.5 dB	>22 dB	>18 dB	>10 dB	-	-	-	-
GW 1X 382	TV-FM-SAT	<2.5 dB	>20 dB	>10 dB	>10 dB	>12 dB	-	-	500mA
GW 1X 383	TV-SAT	<1.5 dB	>25 dB	>10 dB	>10 dB	>10 dB	-	-	500mA

International Standard telephone connectors

RJ11 telephone connector with 4 contacts, suitable for connecting the telephone, telefax, modem.

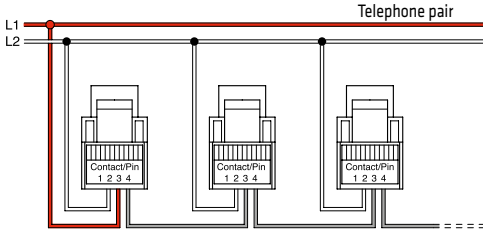
RJ11: GW 10 401 - GW 12 401 - GW 13 401 - GW 14 401 - GW 15 401

Reference standards: ISO 11801

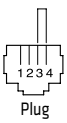
RJ11 CONNECTOR

The RJ11 connector is provided with a dust cover and terminal blocks with screws.

Series connection

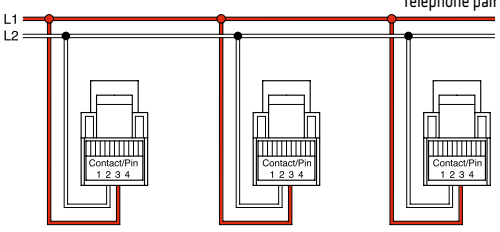


- The clamps 3 and 4 are connected by means of the contact inside the telephone, which is closed when the telephone receiver is put down. When the telephone receiver is picked up, the line breaks downstream (L1 pole), ensuring that the conversation is not overheard.



Note: with the connection in series, when one of the plugs is extracted, the socket-outlets positioned downline are disconnected. To prevent this problem, just insert a plug with a jumper between terminals 3-4, in the socket-outlets from which the telephone appliance was removed.

Parallel connection



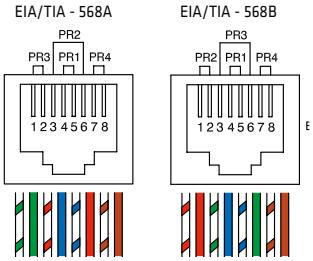
- Each socket-outlet takes the signal from the line.
There is no privacy of conversation.

For technical information visit www.gewiss.com

Connectors for structured wiring

RJ45 connectors of category 5e and 6, shielded (FTP) and unshielded (UTP), for data transmission. Allow computerised devices (computers, printers, modems, etc.) to be connected to the network, as well as the connection of multimedia devices (e.g. videoconference facilities). They can also be used for traditional, centralised telephone systems.

Diagrams



To obtain the EIA/TIA 568A or 568B configuration shown alongside, follow the colour code given on the terminal block (of the products).

Toolless connection

With the Toolless connection, it is possible to make the connection without using additional tools.
This connection simplifies the wiring operations.

Reference standards: EN 50 173 - ISO 11801 EIA / TIA 568A

CAT 5e

GW 10 421 - GW 12 421 - GW 13 421
GW 14 421 - GW 15 421
GW 10 422 - GW 12 422 - GW 13 422
GW 14 422 - GW 15 422

CAT 6

GW 10 423 - GW 12 423 - GW 13 423
GW 14 423 - GW 15 423
GW 10 424 - GW 12 424 - GW 13 424
GW 14 424 - GW 15 424

ADAPTERS

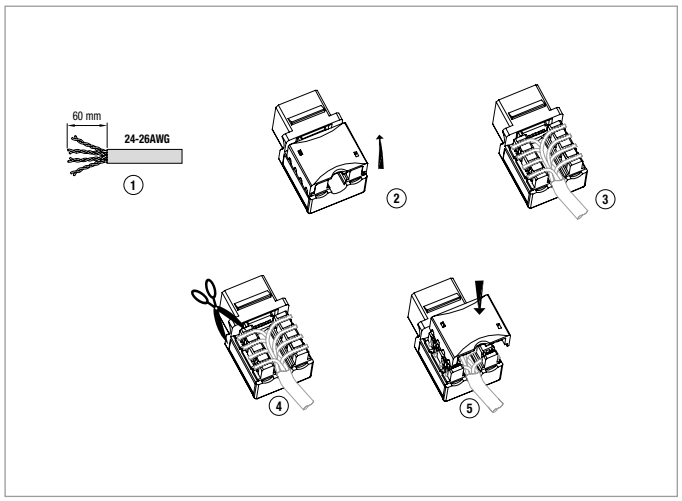
GW 10 431 - GW 12 431 - GW 12 431
GW 14 431 - GW 15 431

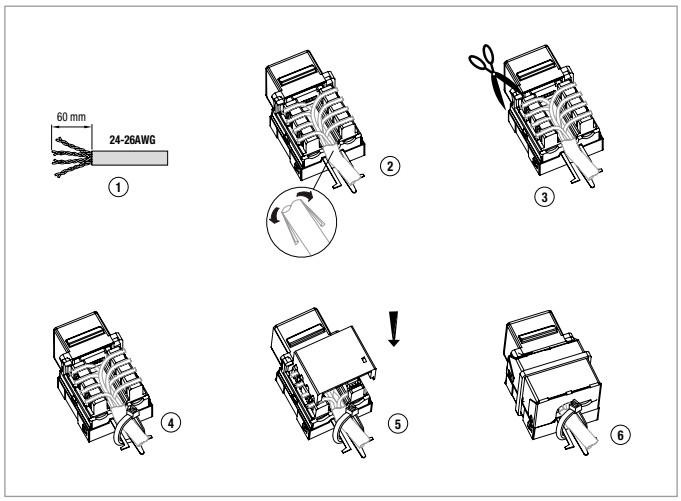
Suitable for Keystone Jack-type connectors (manufactured in according to standard EN 60603-7)

The wires without fitted terminal are inserted in the appropriate blade seats.
The cover closure ensures the complete incision of the insulation and the electrical continuity with the contact.

TECHNICAL DATA	GW 1x 421	GW 1x 423
Connector type	RJ45	
Type of cables used	UTP	
No. of contacts	8	
Terminals	toolless	
Category	5e	6
Transmission protocols used	EIA/TIA 568A - EIA/TIA 568B	
Dimensions	1 ChoruSmart module	

TECHNICAL DATA	GW 1x 422	GW 1x 424
Connector type	RJ45	
Type of cables used	FTP	
No. of contacts	8	
Terminals	toolless	
Category	5e	6
Transmission protocols used	EIA/TIA 568A - EIA/TIA 568B	
Dimensions	1 ChoruSmart module	





USB and HDMI couplers

Female-female couplers with Keystone Jack coupling, for A-type USB and HDMI cables. To complete with GW1x431 adapters.

HDMI coupler

GW 38 056

USB coupler

GW 38 057

USB charger

3A double USB charger, suitable for powering mobile phones, smartphones and mobile electronic devices.

Tipo A+A

GW 10 447 - GW 12 447 - GW 13 447
GW 14 447 - GW 15 447

Tipo A+C

GW 10 449 - GW 12 449 - GW 13 449
GW 14 449 - GW 15 449

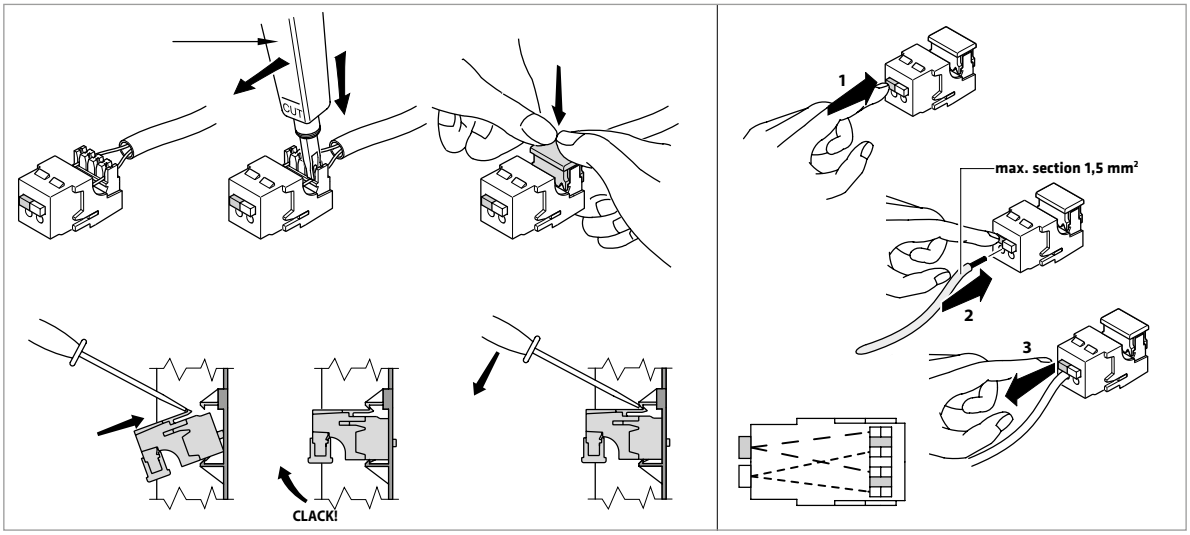
TECHNICAL DATA	
Product code	GW 1x 447 - GW 1x 449
Power supply	100-240V ac - 50/60Hz - 300mA max
Output	5V dc - 3A
USB connector	A+A / A+C
Power supply connector	Screws terminals, min. 1 - max. 1,5mm²
Degree of protection	IP20
Operating temperature	0÷ +40°C
Dimensions	1 ChoruSmart module

Suitable to recharge a single 3A electronic device or a couple of simultaneous devices. The total current provided (max. 3A) is split in the two USB outputs, depending on the state of charge of the connected devices.

Connector for speakers/music

Front terminals (red and black) for inserting solid or stranded cables with section max 1.5mm². Rear dual puncture insulation terminals for AWG24 cables or for cables with section max 0.25mm² (an "impact tool" like GW38051 is recommended).

GW 10 458
GW 12 458
GW 13 458
GW 14 458
GW 15 458



PROTECTION

Automatic circuit breakers

The automatic circuit breakers protect the electrical load connected downline (either directly or via a socket-outlet) against overloading and short-circuiting and, via the residual current circuit breaker part, against contact voltages. They can be installed together with the miniature circuit breakers and the RCCBs with overcurrent protection used - in the enclosure of the home - to diversity the different lines while respecting the selectivity.
They are particularly suitable in locations where there is a high risk of electrocution, such as the bathroom, to protect terminal devices, as well as a safety for portable service devices in the home and so on.
Miniature circuit breaker tripping with C characteristic and A-type residual current circuit breaker for alternated fault currents and single-direction push-buttons.

Reference standards: EN 60898-1; EN 61009-1; EN 61543

Miniature circuit breaker

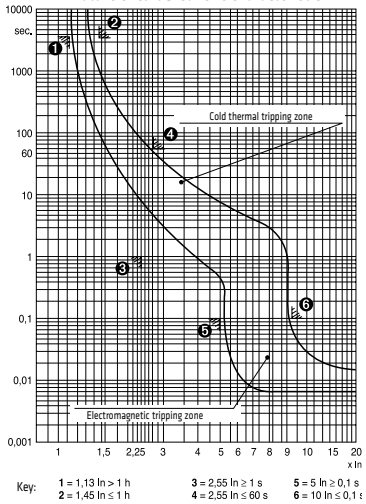
RCCB with overcurrent protection

TECHNICAL DATA

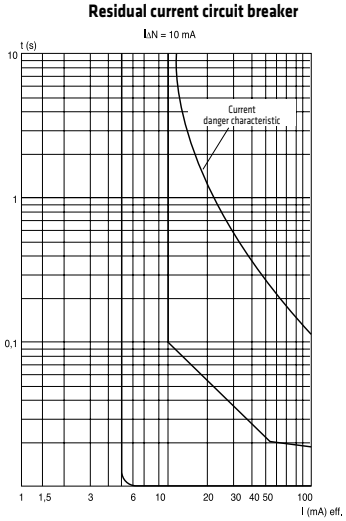
	Power supply voltage	Number of poles	Rated current	Breaking capacity		Code	Dimensions
Miniature circuit breaker	230V AC	1P	6A	3 kA		GW 1x 461	1 ChoruSmart module
			10A			GW 1x 462	
			16A			GW 1x 463	
		1P+N	6A			GW 1x 466	
			10A			GW 1x 467	
			16A			GW 1x 468	
RCCB with overcurrent protection	230V AC	1P+N	6A	3 kA	10mA	GW 1x 482	2 ChoruSmart modules
			10A			GW 1x 485	
			16A			GW 1x 488	
			6A		30mA	GW 1x 483	
			10A			GW 1x 486	
			16A			GW 1x 489	

Tripping characteristics

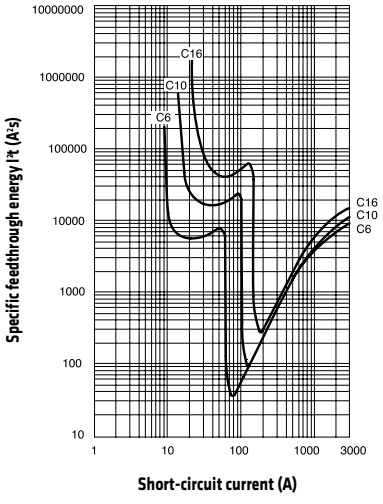
Miniature circuit breaker C characteristic



Residual current circuit breaker



Short-circuiting capacity 3000A



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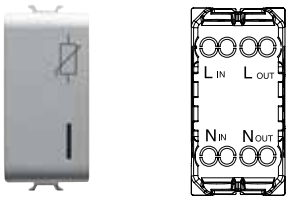
Overvoltage limiter

The overvoltage limiter is a discharger of the varistor type, suitable for protecting the power supply socket-outlets of all types of electrical appliances (especially those containing electronic components, e.g. TV, DVD player, hi-fi, etc.) from damage that can arise from the presence of overvoltages induced in the mains by manoeuvres or atmospheric discharges. The overvoltage peak will not reach the service, or will at least be greatly attenuated. If the varistor should break, the presence of a fuse prevents short-circuiting. The failure is signalled by the switching off of the LED, and the lack of power supply.

Reference standards: EN 61643-11



GW 10 492 - GW 12 492 - GW 13 492
GW 14 492 - GW 15 492

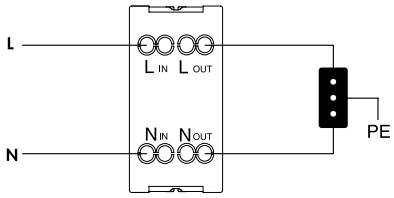
Connection terminals

Input line: L in - Phase
N in - Neutral

Output line: L out - Phase
N out - Neutral

TECHNICAL DATA	
Product code	GW 1x 492
Rated voltage	250V AC
Uc	275V AC 50/60 Hz
Up	1 kV
Uoc	<= 2.5 kV
Dimensions	1 ChoruSmart module

Connection diagram



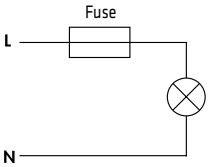
The Gewiss range to protect circuits against overvoltage in the domestic or similar environments includes the dischargers in the POWER catalogue, designed for installation in home enclosures.

Fuse holder

Modular element for the installation of fuses (Ø 6.3x32mm) with a maximum rated current of 16A.
Socket-outlets should be included upline, to power devices for which additional protection against overcurrents and short-circuiting is recommended. Especially suitable for the protection of dimmers too. The fuse is not included.

GW 10 491 - GW 12 491 - GW 13 491
GW 14 491 - GW 15 491

Connection diagram



TECHNICAL DATA	
Product code	GW 1x 491
Rated voltage	230V AC
Maximum rated current	16A
Number of poles	1
Fuses that can be inserted	Ø 6.3 x 32mm
Dimensions	1 ChoruSmart module

SIGNALLING

Extractable anti-blackout lamp

Lamp with high efficiency LED, to be inserted in any Italian, German or French Standard socket-outlet, suitable for auxiliary lighting in the event of a mains failure; can be easily extracted and used as a normal, portable, rechargeable lamp. Selecting the "night" function, it can be used as a courtesy night-light; when in this mode, the lamp switches off automatically after about 30 minutes. The time necessary for recharging is about 36 hours.
Signalling LED:
- green: indicates the presence of the mains
- red: indicates the inhibition of the anti-blackout function

Reference standards: EN 60065; EN 61000-6-3; EN 61000-6-1

GW 10 661 - GW 12 661
GW 13 661 - GW 14 661

By means of a front selector, the lamp can work in different modes:
- emergency: switches on automatically when there is no mains voltage
- inhibition: lamp always switched off
- night: the lamp remains switched on for about 30 minutes, powered by batteries, then switches off and recharges automatically

TECHNICAL DATA	
Power supply voltage	230V AC
Battery	Ni-Mh 3.6V 80mAh
Minimum autonomy	2 hours
Recharging time	36 hours
Lamp	High efficiency LED
Power absorbed in standby mode	2W

Socket-outlet type	Socket-outlet code (example)	GW 1x 661 lamp ledge (measured from the socket-outlet surface)
Italian standard	GW 1x 203	42 mm
Italian/german standard	GW 1x 204	30 mm
German standard	GW 1x 241	24 mm

Flush-mounting anti-blackout lamp

Flush-mounting anti-blackout lamp, 1 ChoruSmart module, suitable for auxiliary lighting in the event of a mains failure. Front LED indicating presence of mains and standby (steady green light).

GW 10 662 - GW 12 662 - GW 13 662
GW 14 662 - GW 15 662

TECHNICAL DATA	
Power supply voltage	230V AC
Battery	Ni-Mh
Minimum autonomy	1 hour
Recharging time	12 hours
Lamp	White high efficiency LED
Dimensions	1 ChoruSmart module

Autonomous emergency lamps

Autonomous emergency lamps for flush-mounting boxes of 2 and 4 modules, suitable for emergency lighting in residential or public service environments when there is no mains voltage. A green frontal LED indicates the presence of mains voltage. Can be used to light exits, dangerous passages, etc.
The lighting uses a high efficiency white LED.

Reference standards: EN 60598-2-22

GW 10 663 - GW 12 663
GW 13 663 - GW 14 663
GW 15 663

GW 10 666 - GW 12 666 - GW 13 666
GW 14 666 - GW 15 666

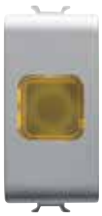
TECHNICAL DATA	GW 1x 666	GW 1x 663
Power supply voltage	230V AC	230V ac
Battery	Ni-Mh 3.6V 1100mAh	Ni-Mh 3,6V 160mAh
Minimum autonomy	1 hour	1 hour
Recharging time	24 hours	12 hours
Lamp	1 white high efficiency LED	2 white high efficiency LED
Power absorbed in standby mode	1W	1W
Light flux	30 lumens	12 lumens
Dimensions	4 ChoruSmart modules	2 ChoruSmart modules

Indicator lamps

Permit the visualisation from a considerable distance of the ON/OFF status of a service or lighting circuit. The ChoruSmart half-module indicator lamps allow notable space-saving.

Reference standards: EN 62094-1

1/2 Module
GW 1x 641 Opal
GW 1x 642 Green
GW 1x 643 Red
GW 1x 644 Amber



1 Module
GW 1x 621 Opal
GW 1x 622 Green
GW 1x 623 Red
GW 1x 624 Amber

The indicator lamps must be completed with miniature lamps with wired lead, to be inserted in the back of the product

1 Module
GW 1x 628 Opal/opal
GW 1x 629 Red/green

Protruding indicator lamps

Permit the visualisation from a considerable distance of the ON/OFF status of a service or lighting circuit. The light generated by the indicator lamp is visible not only from the front, but also from the side. Suitable for special applications such as the signalling of calls from hospital wards. The protruding indicator lamps are supplied with LED sources.

Reference standards: EN 62094-1

TECHNICAL DATA	
Power supply voltage	12V AC/DC or 230V AC
Dimensions	2 ChoruSmart modules
Type of lamp	LED
Power absorbed	12V: 0.4W - 230V: 6W

TECHNICAL DATA	
Power supply voltage	12V AC/DC or 230V AC
Type of lamp	LED
Power absorbed	12V: 0.4W - 230V: 6W
Dimensions	2 ChoruSmart modules

GW 1x 631 Opal

GW 1x 632 Green

GW 1x 633 Red

GW 1x 634 Amber

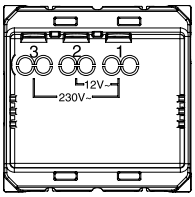
Stair riser lamp

Lamp with white LEDs, suitable for use as a stair riser lamp, courtesy lamp, night-time lamp, etc.
The product has a double 12V AC/DC - 230V AC power supply input.
The lamp with white LEDs is integrated in the product.

Reference standards: EN 62094-1

GW 10 651 - GW 12 651 - GW 13 651
GW 14 651 - GW 15 651

GW 10 656 - GW 12 656 - GW 13 656 - GW 14 656 - GW 15 656



Wiring terminals

Power supply: terminals 1 - 2: 12V
terminals 1 - 3: 230V

TECHNICAL DATA	
Power supply voltage	12V AC/DC or 230V AC 50/60Hz
Type of lamp	White high efficiency LEDs
Power absorbed	12V 2 modules: 0.12W 230V 2 modules: 0.6W 12V 4 modules: 0.1W 230V 4 modules: 0.5W
Dimensions	GW 1x 651 - 2 ChoruSmart modules GW 1x 656 - 4 ChoruSmart modules

Ringer with three independent inputs

The ringer with three independent inputs has three different acoustic signals:
- emergency-type sound (e.g. bathroom alarm)
- two-tone sound (e.g. main entrance ringer)
- trill-type sound (e.g. secondary entrance ringer)

The volume of the ringer can be adjusted using the push-button on the back.

Reference standards: IEC 62080

GW 10 611 - GW 10 612
GW 12 611 - GW 12 612
GW 13 611 - GW 13 612
GW 14 611 - GW 14 612
GW 15 611 - GW 15 612

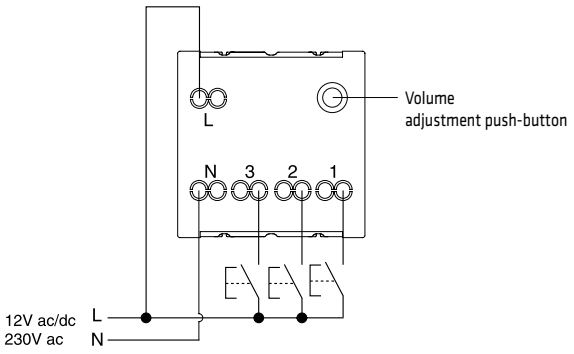
TECHNICAL DATA	
Power supply voltage	GW 1x 611 - 12V AC/DC GW 1x 612 - 230V AC - 50Hz
Power absorbed	GW 1x 611 - 3 VA GW 1x 612 - 6 VA
Sound intensity	80dB at 1m
Dimensions	2 ChoruSmart modules

Wiring terminals

Power supply: L - Phase
N - Neutral

Ringer inputs: 1 - emergency
2 - two-tone
3 - trill

Connection diagram



ENERGY AND COMFORT MANAGEMENT

1-channel daily and weekly electronic timer

- Electronic device for the timed command of a load
- Positive LCD display with white backlight
- Permanent indication of: time, day of the week, load lighting status, functioning/working mode status,
- 144 daily cycles that can be set (transitions every 5 minutes)
- Manual activation/deactivation of the load (MAN mode)
- Programmed activation/deactivation of the load (AUTO mode), with daily/weekly cycles
- Permanent deactivation of the load (OFF mode)
- Immediate visualisation of the daily planning, via permanently visualised histogram
- Rechargeable buffer battery

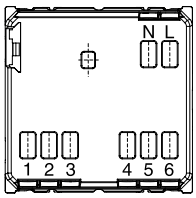
Reference standards: EN 60730-1; EN 60730-2-7

GW 10 581 - GW 12 581 - GW 14 581

TECHNICAL DATA	
Power supply voltage	230V AC 50/60Hz
Output contacts	1NO/NC 8A(AC1) / 4A(AC15) 250V AC
Reserve charge	48 hours
No. activations/deactivations	144
Dimensions	2 modules

Command push-buttons:

- Selection of functional mode
- Selection of operational mode
- Modify (increase)
- Modify (decrease)



Wiring terminals

Power supply:
L - Phase
N - Neutral

Output relay:
1 - NO contact
2 - NC contact
3 - Common

Serial line:
4 - TX (output data)
5 - GND (common)
6 - RX (input data)

DIMMER

Rotating electronic regulators, for resistive/inductive loads

Dimmer with conventional potentiometer adjustment and static switching off by turning the knob on position zero.

Reference standards: EN 60669-1;EN 60669-2-1

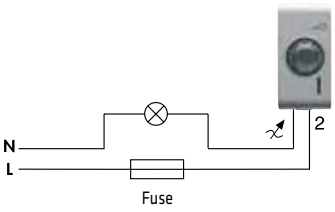
Control knob:
- ON/OFF
- adjustment via rotation

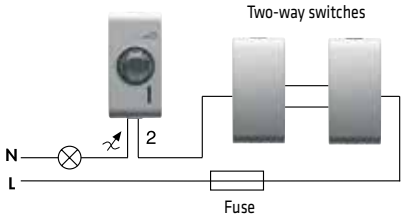
Indicator light for localisation and presence of mains voltage.

GW 10 564
GW 12 564
GW 13 564
GW 14 564
GW 15 564

TECHNICAL DATA	
Product code	GW 1x 564
Technology	with TRIAC
Power supply voltage	230V ac
Max. power of resistive load	100 - 900W
Max. power of inductive load	40 - 300VA
Adjustable load	
- Incandescent and halogen lamps	•
- Toroidal and lamellar transformers	•
Dimensions	1 ChoruSmart module

Item designed solely to a limited number of countries outside the European Union or proposed as candidate and to the European Free Trade Association.





Typical use:

- Domestic sector for light source adjustment.

The conformity to EMC Directive is guaranteed only connecting the GW1x564 regulator to a LC filter as showed in the following wiring diagram.

WARNINGS
- The connection should be made together with a fuse carrier (eg. GW1x491) with a quick-acting fuse with high breaking capacity type F2.5AH 250Vac (for GW1x561) as shown in the diagrams.
- The regulator does not have a mechanical circuit breaker in the main circuit and so is not galvanically separated. The circuit load should be considered always under voltage.
- The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- It should be used in dry, dust-free places at a temperature between 0 °C and +35 °C.

Rotating electronic regulators with two-way switch, for resistive/inductive loads

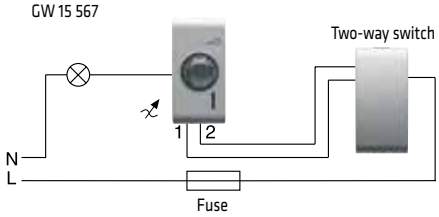
Dimmer with incorporated two-way switch that makes it possible to command the switching on and off of a second point (using the two-way switch), or a number of points (using intermediate switches). Switched on and off by pressing the knob; adjustment by turning it.

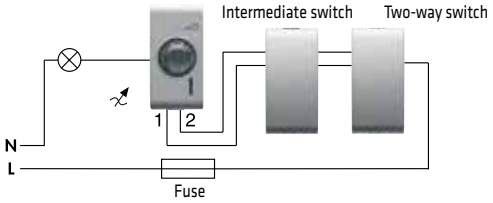
Reference standards: EN 60669-1; EN 60669-2-1

GW 10 567
GW 12 567
GW 13 567
GW 14 567
GW 15 567

TECHNICAL DATA	
Product code	GW 1x 567
Technology	with TRIAC
Power supply voltage	230V ac
Max. power of resistive load	100 - 500W
Max. power of inductive load	100 - 500VA
Adjustable load	
- Incandescent and halogen lamps	•
- Toroidal and lamellar transformers	•
Dimensions	1 ChoruSmart module

Typical use:
- Domestic sector for light source adjustment.
- In existing systems, the dimmer with two-way switch can be easily installed in place of a two-way switch, without modifying the original circuit.





WARNINGS
• The connection should be made together with a fuse carrier (eg. GW1x491) with a quick-acting fuse with high breaking capacity type F2.5AH 250Vac as shown in the diagrams.
• The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
• Do not install the regulator near thermostats or chronothermostats.
• Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
• It should be used in dry, dust-free places at a temperature between 0 °C and +35 °C.

Rotating electronic regulators with two-way switch, for universal loads

Dimmer with incorporated two-way switch that makes it possible to command the switching on and off of a second point (using the two-way switch), or a number of points (using intermediate switches). Switched on and off by pressing the knob; adjustment by turning it.

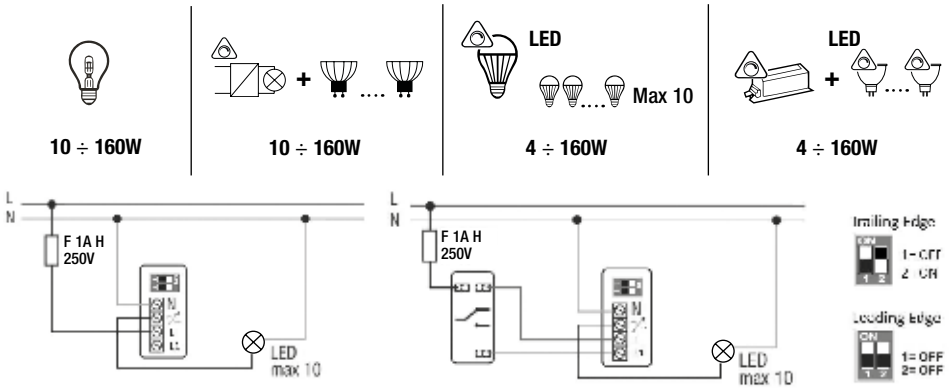
Reference standards: EN 60669-1; EN 60669-2-1

GW 10 575
GW 12 575
GW 13 575
GW 14 575
GW 15 575

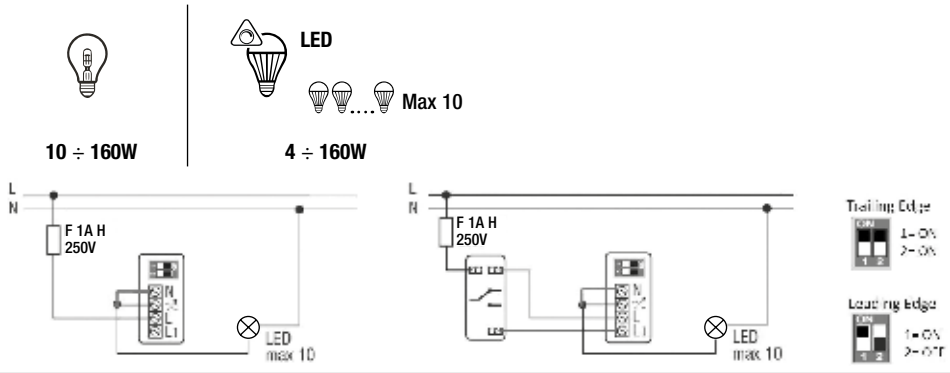
TECHNICAL DATA	
Product code	GW 1x 575
Power supply voltage	230V ac - 50Hz
Dimensions	1 ChoruSmart module

Typical use:
- Domestic sector for light source adjustment.
- In existing systems, the dimmer with two-way switch can be easily installed in place of a two-way switch, without modifying the original circuit.

230V L + N



230V L

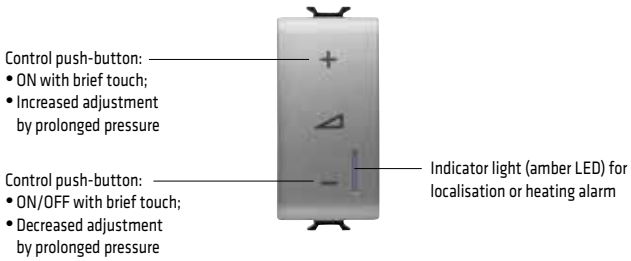


WARNINGS
- The connection should be made together with a fuse carrier (eg. GW1x491) with a quick-acting fuse with high breaking capacity type F1.6AH 250Vac as shown in the diagrams.
- The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- It should be used in dry, dust-free places at a temperature between 0 °C and +35 °C.

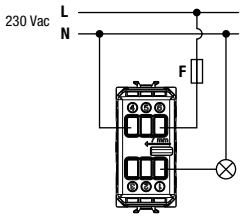
Push-button electronic regulators, for universal loads

Double push-button type dimmer, with possibility of control and adjustment from any number of points using single-pole NO push-buttons; gradual switching on and off by briefly touching at the pre-set adjustment level (intensity memory); adjustment with prolonged pressure.
A dip-switch located on the side of the devices allows to set the type of driving of the dimmable lamps (Leading Edge or Trailing Edge mode) and the type of switching on (Flash-start or Soft-start).

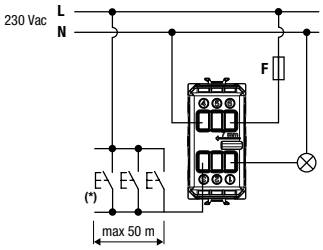
Reference standards:
EN 60669-1; EN 60669-2-1



TECHNICAL DATA		
Product code	GW 1x 572 A	GW 1x 573 A
Power supply voltage	230V ac - 50/60Hz	230V ac - 50/60Hz
Adjustable load		
- Incandescent and halogen lamps	40 - 300W	40 - 300W
- Toroidal and lamellar transformers	40 - 300W	40 - 300W
- Electronic transformers	40 - 300W	40 - 300W
- Dimmable 230V LED lamps	5 - 150W (max. 10 lamps)	5 - 150W (max. 10 lamps)
Dimensions	1 ChoruSmart module	2 ChoruSmart modules



1-point light control



Multi-point light control with NO buttons

Notes:
(*) Illuminated push-buttons cannot be used with a built-in lamp for remote control

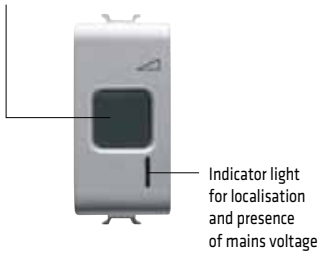
WARNINGS
- The connection should be made together with a fuse carrier (eg. GW1x491) with a quick-acting fuse with high breaking capacity type F2AH 250Vac as shown in the diagrams.
- The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- The regulator does not have a mechanical circuit breaker in the main circuit and so is not galvanically separated. The circuit load should be considered always under voltage.
- It should be used in dry, dust-free places at a temperature between 0 °C and +35 °C.

Push-button electronic regulator, for resistive/inductive loads

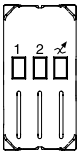
Push-button type dimmer, with possibility of control and adjustment from any number of points using single-pole NO push-buttons; gradual switching on and off by briefly touching at the pre-set adjustment level (intensity memory); adjustment with prolonged pressure on the same button.

Reference standards: EN 60669-1;EN 60669-2-1

Control push-button:
- ON/OFF with touch;
- adjustment by prolonged pressure



TECHNICAL DATA	
Product code	GW 1x 568
Technology	with TRIAC
Power supply voltage	230V ac
Max. power of resistive load	60 - 500W
Max. power of inductive load	60 - 500VA
Adjustable load	
- Incandescent and halogen lamps	•
- Ferromagnetic transformers	•
Dimensions	1 ChoruSmart module



GW 10 568
GW 12 568
GW 13 568
GW 14 568
GW 15 568

Wiring terminals

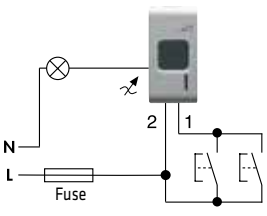
Power supply: 2 - Phase
Command:: - Load
Input: 1 - Remote command

CHARACTERISTICS	ADVANTAGES
Memorisation of adjustment level	Easy to position at a standard adjustment level
Gradual switching on	Increased lamp lifespan, reducing filament stress during cold switch-on; also prevents disturbing glare effect
Gradual switching off	Guarantees the gradual passage from the maximum light condition to the switched-off status

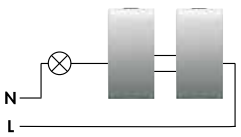
Typical use:

- Domestic sector for light source adjustment.
- Commercial sector, hotel rooms, places for communities, conference halls, for adjustment of light sources.
- In existing systems, the dimmers can be easily installed by replacing the two-way switches, without modifying the original circuit.

Multi-point light control and setting
with NO push-buttons

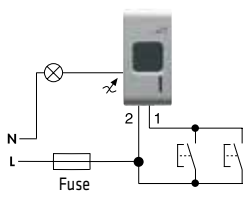


2-point light control
(2 two-way switches)



Before

2-point light control and setting
(1 regulator + 1 or more NO push-buttons



After

WARNINGS
- The connection should be made together with a fuse carrier (eg. GW1x491) with a quick-acting fuse with high breaking capacity type F2.5AH 250Vac as shown in the diagrams.
- The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- The regulator does not have a mechanical circuit breaker in the main circuit and so is not galvanically separated. The circuit load should be considered always under voltage.
- It should be used in dry, dust-free places at a temperature between 0 °C and +35 °C.

ELECTRONIC PUSH-BUTTONS

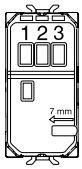
Introduction

The electronic push-buttons are an innovative range of modular devices, characterised by their minimum stroke and light, silent activation. Suitable for both conventional and domotic electric systems. The range includes a illuminated 230V AC push-button (GW 1X 912), a illuminated push-button for BUS inputs (GW 1X 913), a double arrow push-button (GW 1X 914) and a universal push-button (GW 1X 915).

Backlit electronic push-button

The generic push-button for 230V AC applications is specifically designed to command bistable relays, electronic one-way switches for heavy loads, or dimmers with a remote control input. Equipped with amber localisation LED.

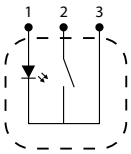
GW 10 912
GW 12 912
GW 13 912
GW 14 912
GW 15 912



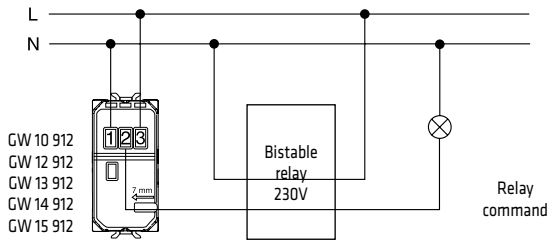
Wiring terminals

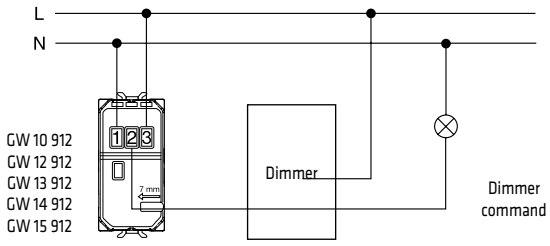
Power supply: 1 - Neutral
3 - Phase

Command: 2 - Load



TECHNICAL DATA	
Product code	GW 1x 912
Power supply voltage	230V AC
Type of contact	4A (AC1) - 230V ac
Type of load	Relay
	Dimmer (with remote control input)
LED	Localisation (amber)
Dimensions	1 ChoruSmart module



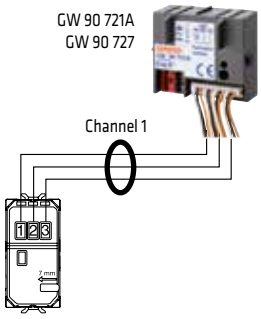


Backlit push-button for BUS inputs

The push-button for BUS inputs is designed for KNX BUS contact interface connections. Equipped with two-colour LED (for night-time localisation or load status signalling).

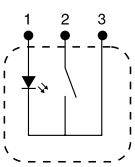
GW 10 913
GW 12 913
GW 13 913
GW 14 913
GW 15 913

GW 10 916
GW 12 916
GW 13 916
GW 14 916
GW 15 916



Wiring terminals

Command: 1 - LED
3 - Common
2 - Contact

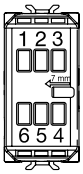


TECHNICAL DATA	
Product code	GW 1x 913, GW 1x 916 (1M) GW 1x 917, GW 1x 918 (2M)
Type of contact	Potential-free
Type of load	BUS contact interfaces
LED	Two-colour: amber/green - the colour can be chosen using the selector. Can be programmed to act as a night-time localisation indicator light, or to show the load status
Dimensions	1 ChoruSmart module

Double electronic push-button

The double push-button for roller shutters is designed for the connection of KNX BUS contact interfaces, or electronic control panels for moving the roller shutters.

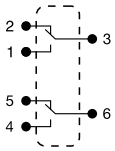
GW 10 914
GW 12 914
GW 13 914
GW 14 914
GW 15 914



Wiring terminals

UP arrow:
1 - NO contact
2 - NC contact
3 - Common

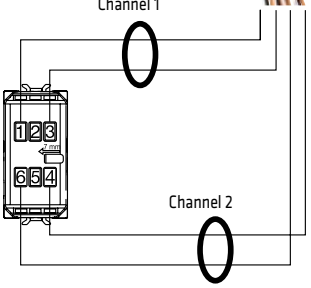
DOWN arrow:
4 - NO contact
5 - NC contact
6 - Common



TECHNICAL DATA	
Product code	GW 1x 914
Type of contact	Double potential-free contact with interlock
Type of load	BUS contact interfaces
	Electronic control units for roller shutters
Dimensions	1 ChoruSmart module

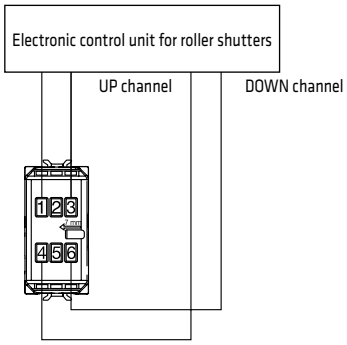
Connection of 2 channels of a KNX BUS contact interface

GW 90 721A
GW 90 727



GW 10 914
GW 12 914
GW 13 914
GW 14 914
GW 15 914

Connection to electronic control panel for moving roller shutters

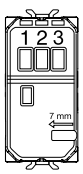


GW 10 914
GW 12 914
GW 13 914
GW 14 914
GW 15 914

Universal electronic push-button

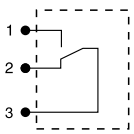
The push-button is suitable for KNX BUS contact interface connections or the command of bistable relays, electronic one-way switches for heavy duty loads or dimmers with a remote control input.

GW 10 915
GW 12 915
GW 13 915
GW 14 915
GW 15 915



Wiring terminals

1 - NO contact
2 - NC contact
3 - Phase



TECHNICAL DATA	
Product code	GW 1x 915
Type of contact	4A (AC1) - 230V ac
Type of contact	Potential-free
Type of load	Relay
	Dimmer (with remote control input)
	Bus contact interfaces
Dimension	1 ChoruSmart module

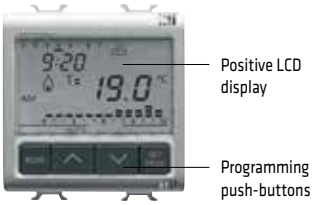
CLIMATE CONTROL

Timed thermostat - daily/weekly programming

The timed thermostat allows you to automatically control the weekly temperature and timing within the place of installation, together with the heating and air-conditioning systems.

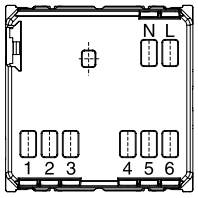
- Powered by mains voltage
- Relay output contact for commanding the boiler, air-conditioner, zone solenoid valve, etc.
- LCD display with white backlight (the backlighting is activated every time one of the button-keys is pressed, and switches off 5 seconds after the last touch)
- Programming on a weekly basis (a programme for 7 days with hourly profiles independently configurable for each day)
- Setting of hourly profile on 24-hour basis, with 3 different temperature levels (T1, T2, T3) and profile display
- Programming of times with a resolution of 15 minutes without a limit in the number of daily changes
- Residual current circuit breaker for adjustment can be set and differentiated for HEATING and AIR-CONDITIONING
- PARTY and HOLIDAY functions for programming special functioning speeds of different duration periods
- Functioning modes that can be set: AUTOMATIC / MANUAL / OFF
- Possibility to select the system thermal gradient self-learning function. This function optimises the heating anticipation (up to 2 hours) in order to guarantee the set temperature right from program start;
- Rechargeable buffer battery.

Reference standards:
EN 60730-1; EN 60730-2-7, EN 60730-2-9



GW 10 703 - GW 12 703 - GW 14 703

TECHNICAL DATA	
Product code	GW 10 703 - GW 12 703 - GW 14 703
Power supply voltage	230V AC 50/60Hz
Output contact	1NO/NC with potential-free contact 5A(AC1) / 2A(AC15) 250V AC
Operating temperature	-5 to +45°C
Detected temperature display range	0 to +45°C
Adjustment range	+5 to +40°C
Tolerance	±0.5°C to 20°C
Reserve charge	48 hours
Dimensions	2 ChoruSmart modules

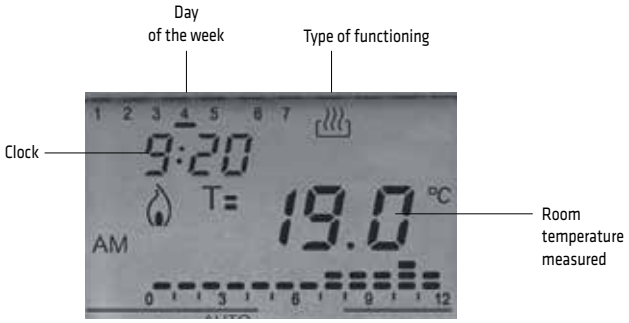


Wiring terminals

Power supply: L - Phase
N - Neutral

Output relay: 1 - NO contact
2 - NC contact
3 - Common

Serial line: 4 - TX
5 - GND (common)
6 - RX



Thermo ICE WiFi thermostats - wall-mounted

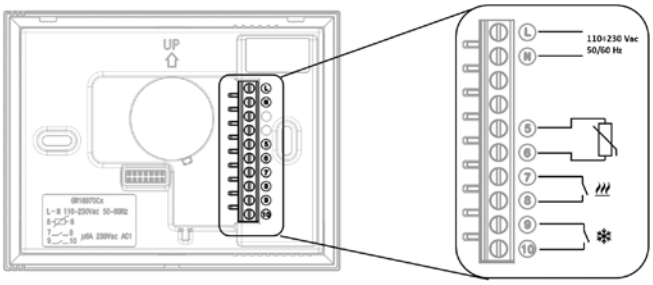
Thermostats are used to control the temperature and humidity of the room in which they are installed. The temperature is regulated by controlling the heating/cooling solenoid valve via local relays. The device is able to control two- or four-way heating/cooling systems, having two output relays. If only one relay is used for heating/cooling control, the other could be used to control a dehumidification system.
The thermostats, with a technopolymer surface, are equipped with a white LED backlit display, touch controls, a circular touch slider, RGB signalling LEDs and integrate a temperature sensor, a humidity sensor and a proximity sensor for activating backlighting.

The thermostat provides:
- 2 types of operation: heating and cooling, with independent control algorithms;
- 6 operating modes: OFF (antifreeze/high temperature protection), Economy, Precomfort, Comfort, Manual and Automatic;
- 4 regulation temperatures for heating (Teconomy, Tprecomfort, Tcomfort, Tantifreeze);
- 4 regulation temperatures for cooling (Teconomy, Tprecomfort, Tcomfort, Tprotection_high_temperatures);
- 2 types of control: HVAC mode or Setpoint;
- Control algorithms: 2 points ON/OFF or proportional PI with PWM control;
- 2 relay outputs with NO contact, which can be used by the thermostat to control the heating, cooling or humidity solenoid valve (see table above);
- 1 input for external temperature NTC sensor (e.g. protection sensor for underfloor heating).

Thermo ICE WiFi thermostats integrate a WiFi interface for home WLAN/internet connection and management via APP. Through the THERMO ICE 2.0 App, it is possible to control the thermostat and display its operating status, to set parameters and program temperature profiles (chronothermostat function), to control ignition according to your position detected by your smartphone (geolocation function), and to display the trend over time of the temperature, humidity and ignition of the heating/cooling system.
The THERMO ICE 2.0 APP is available for smartphones and tablets with iOS and Android systems and uses a cloud connection with the thermostat.

Regulatory references: EN 60730-2-7, EN 60730-2-9

GW16970CB - GW16970CN - GW16970CT



TECHNICAL DATA	
Power supply	110 V ac - 230 V ac, 50/60 Hz Consumption < 3W (in stand by < 1W)
Inputs	1 input for temperature external sensor (es: GW 10 800), type NTC 10K
Outputs	2 NO potential-free contatcs 6A (cosφ=1) 250 V ac
Temperature adjustment range	+10 a +35 °C
Dimension of the plate (BxHxP)	123,2x95,2x20,6 mm
Mounting	in 3-gang rectangular flush mounting box or wall-mounting (with screws and dowels supplied)
WiFi connection	2.4 GHz IEEE 802.11 b/g/n
Dimensions	2 ChoruSmart modules

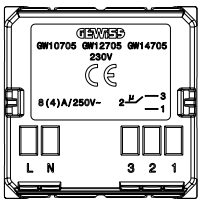
Thermostat

The flush-mounting thermostat commanding a boiler and/or an air-conditioner regulates the temperature in an easy, efficient way.
The choice of temperature is made by simply rotating the knob and positioning it on the value you want.
The frontal selector allows you to select 3 different functioning modes.

- SUMMER (air-conditioner) - the output will be active when the temperature recorded by the thermostat is greater than the value indicated by the knob.
- WINTER (boiler) - the relay output will be active when the temperature recorded by the thermostat is lower than the value indicated by the knob. In winter mode, the antifreeze function is active (pre-set at +5°C).
- OFF - the output is never activated.

Reference standards: EN 60730-1;EN 60730-2-9

GW 10 705 - GW 12 705 - GW 13 705
GW 14 705 - GW 15 705



Connection terminals

Power supply: L - Phase
N - Neutral

Output relay: 1 - NO contact
2 - Common
3 - NC contact

TECHNICAL DATA	
Product code	GW 1x 705
Power supply voltage	230V AC
Power absorbed	2 VA
Adjustment range	+5 to +35°C
Hysteresis	1°C
Output contact	1NO/NC 8A(AC1) 250V AC

The thermostat is fitted with two LEDs; the yellow light has a localisation function, while the green one indicates the activation of the output.

SAFETY

Gas detectors

The gas detectors reveal the presence of substances (CH_4/GPL) that are dangerous for the domestic environment where they are installed

- Indicator lights and acoustic alarm signalling
- Closure of a solenoid valve, via relay
- Indicator lights for malfunctioning of sensor or device
- Device operating test function

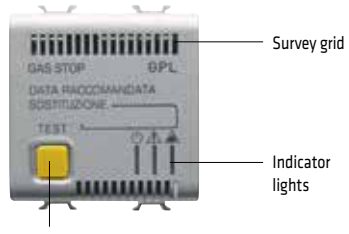
The closure of the solenoid valve via the relay is carried out approximately 20s after the start of the alarm situation.

The push-button allows you to carry out the operational test: when pressed, the red LED lights up (alarm signalling), the buzzer sounds and, after about 20s, the relay is activated. Upon the release of the push-button, the signalling is immediately deactivated.

The detectors can be powered through the 12V power supply unit GW10720.

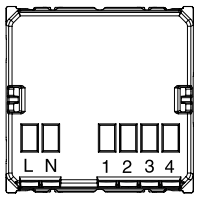
Owing to the particular thermal sensitivity of the LPG sensor, you are advised to position it far from the power supply unit, and apply a blanking module.

Reference standards: CEI 216-8



LPG
GW 10 711 - GW 12 711 - GW 14 711

METHANE GAS
GW 10 712 - GW 12 712 - GW 13 712
GW 14 712 - GW 15 712

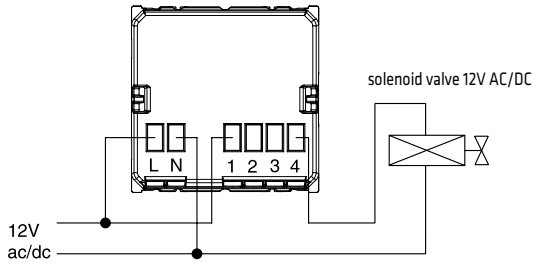


Connection terminals

L-N - 12V AC/DC power supply
1 - Common
2 - NC contact
3 - NO contact
4 - NO contact

TECHNICAL DATA	
Power supply voltage	12V AC/DC
Power absorbed	2 VA
Alarm threshold	9% LIE (lower explosive limit)
Alarm sound level	85 dB at 1m
Operating temperature	+5 to +40°C
Relative environmental humidity	+30 to +90% without condensation
Output contact in switching:	1 NO/NC 10A (NO)/3A (NC) 250V AC
Fixing	flush-mounting on ChoruSmart support
Lifespan of device	5 years from when first powered
Dimensions	2 modules

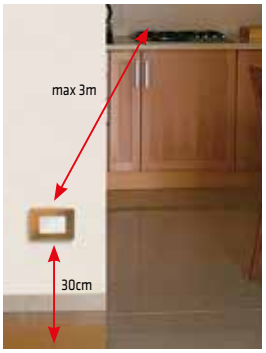
Connection diagram



Correct positioning of detectors

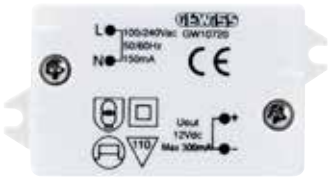
Methane gas (CH_4)

LPG gas



12V power supply unit

Insulation transformer suitable for the power supply of gas detectors (methane and LPG) and WiFi Thermo ICE thermostats. Internally protected against overloading, short-circuiting and excessively high temperatures.



GW 10 720

Wiring terminals

Power supply:
L - Phase
N - Neutral

12V output:
+12V - Positive
-12V - Negative

TECHNICAL DATA	
Power supply voltage	110/240Vac - 50/60Hz - 150mA
Output voltage	12V dc - 300mA
Dimensions (mm)	52x33x17

Anti-flood system with wireless sensor

The anti-flood system consists of one or more flood alarms (GWA1514) that reveal the presence of water and an actuator (GWA1521) for the control of the solenoid valve. The devices, that communicate via the Zigbee protocol in a wireless mode, need to be manually binded each other with a simple procedure using the programming buttons and the dip-switches.
The flood alarms can be freely positioned on the floor or can be wall mounted thanks to their specific accessories (GWA1541); the actuator can be easily located on the bottom of flush-mounted boxes, junction boxes or coupled to a specific ChoruSmart blind module (GW1x750).
In the event of flooding, the flood alarms send luminous and acoustic signals and, through the actuator, they command the closure of the solenoid valve contact. The contact can only be reactivated locally, pressing a push-button wired to the actuator.
The flood alarms are battery operated: the necessity to replace the battery is reported by short acoustic and luminous notifications.

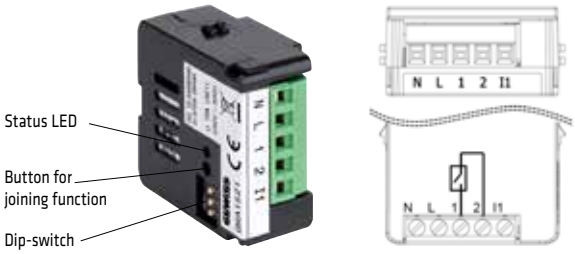
Reference standards: IEC 60669-2-1, EN 300 328, 2014/53/UE

Zigbee flood alarms

GW A1 514

TECHNICAL DATA	
Radio protocol	Zigbee / IEE 802.15.4
Frequency	2.4 GHz
Output power	+8 dBm
Power supply	CR123 replaceable
Siren	85 dB @3m
Degree of protection	IP20
Operating temperature	0 ÷ +50 °C
Dimensions	Ø 60 x 37mm
Certifications	Zigbee

Zigbee actuator

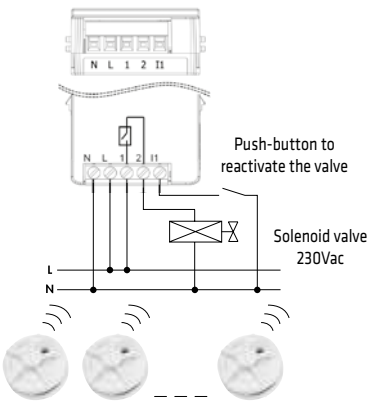


GW A1 521

TECHNICAL DATA	
Radio protocol	Zigbee / IEE 802.15.4
Frequency	2.4 GHz
Output power	+3 dBm
Power supply	230V ac - 50 Hz
Relay contact	10A NA - Potential-free
Terminal blocks	With screws - Section max 1,5mm²
Degree of protection	IP20
Operating temperature	-5 ÷ +45 °C
Dimensions	42x40x20mm
Certifications	Zigbee

Installation characteristics

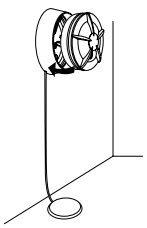
Connection diagram



Water sensor accessory

GW A1 541

Accessory for the wall mounting of the GWA1514 flood alarm.



For technical information visit www.gewiss.com

HOTEL COMPONENTS

"Do not disturb" and "Make up the room" interchangeable button keys and light signalling

Interchangeable button keys with "Do not disturb" and "Make up the room" pad printings, to be used to customize the ChoruSmart command devices (eg: switches, push-buttons, etc.) in the hotel rooms.

The indicator lamp unit, located outside the room, is used to inform the service staff about the customer's will not to be disturbed or to clean the room. The device can accept two LED signalling units, not included (eg: GW10881, GW10882, etc.).

Interchangeable button
DND
GW 10 731 - GW 12 731 - GW 13 731
GW 14 731 - GW 15 731

Interchangeable button
MUR
GW 10 732 - GW 12 732 - GW 13 732
GW 14 732 - GW 15 732

Interchangeable button
DND + MUR
GW 10 733 - GW 12 733 - GW 13 733
GW 14 733 - GW 15 733

Indicator lamp unit
DND + MUR
GW 10 736 - GW 12 736 - GW 13 736
GW 14 736 - GW 15 736