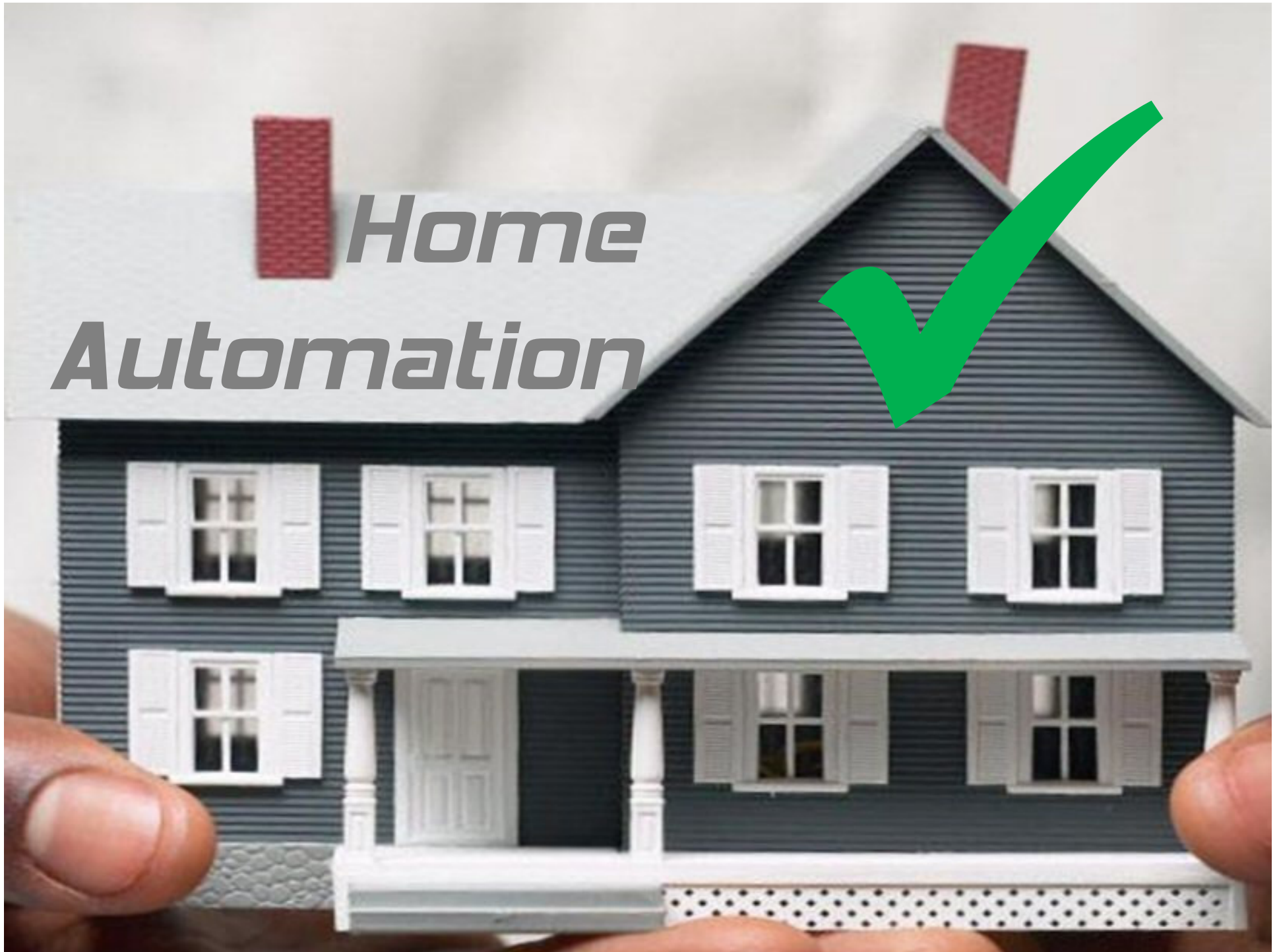
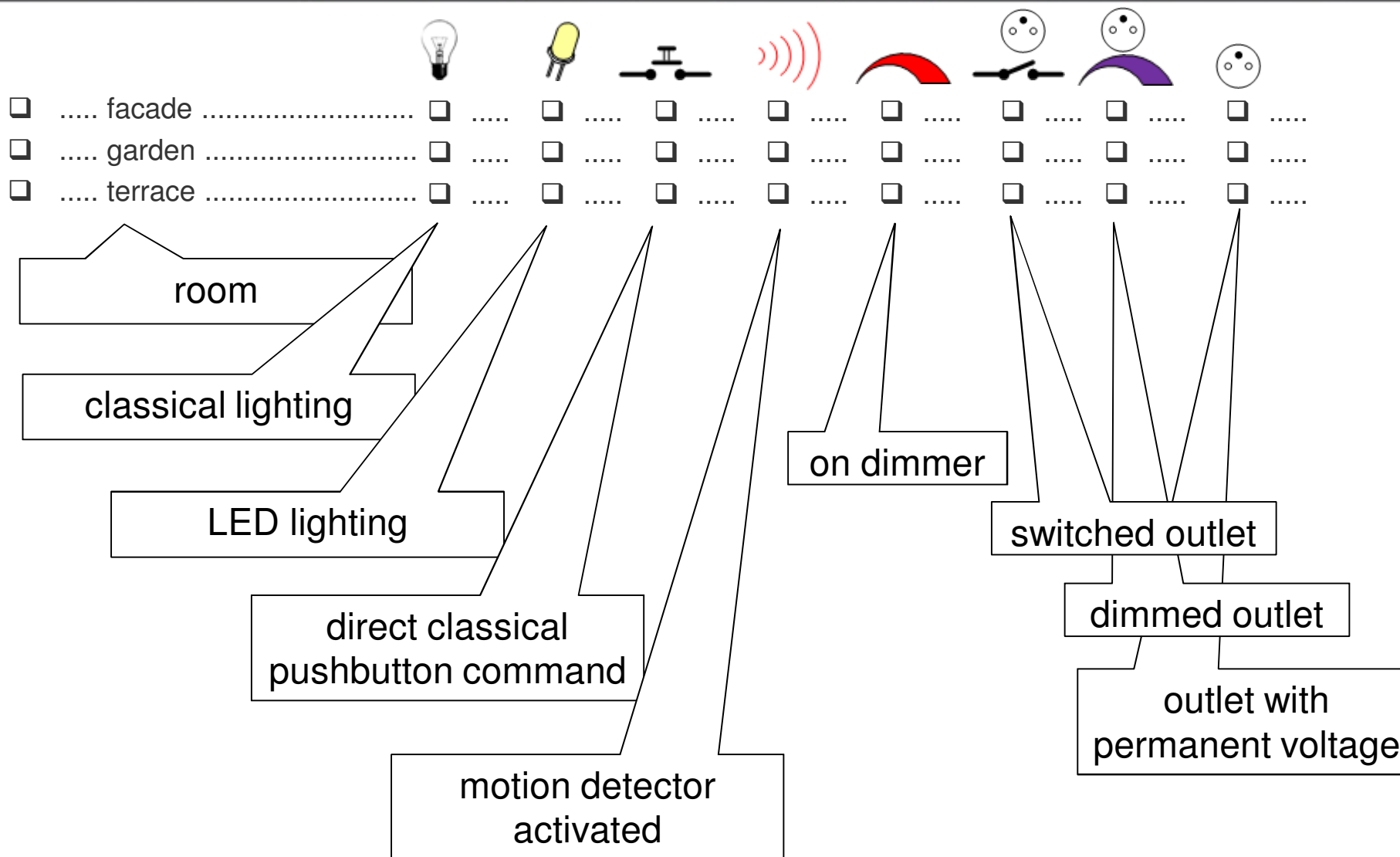
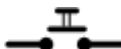


Home Automation



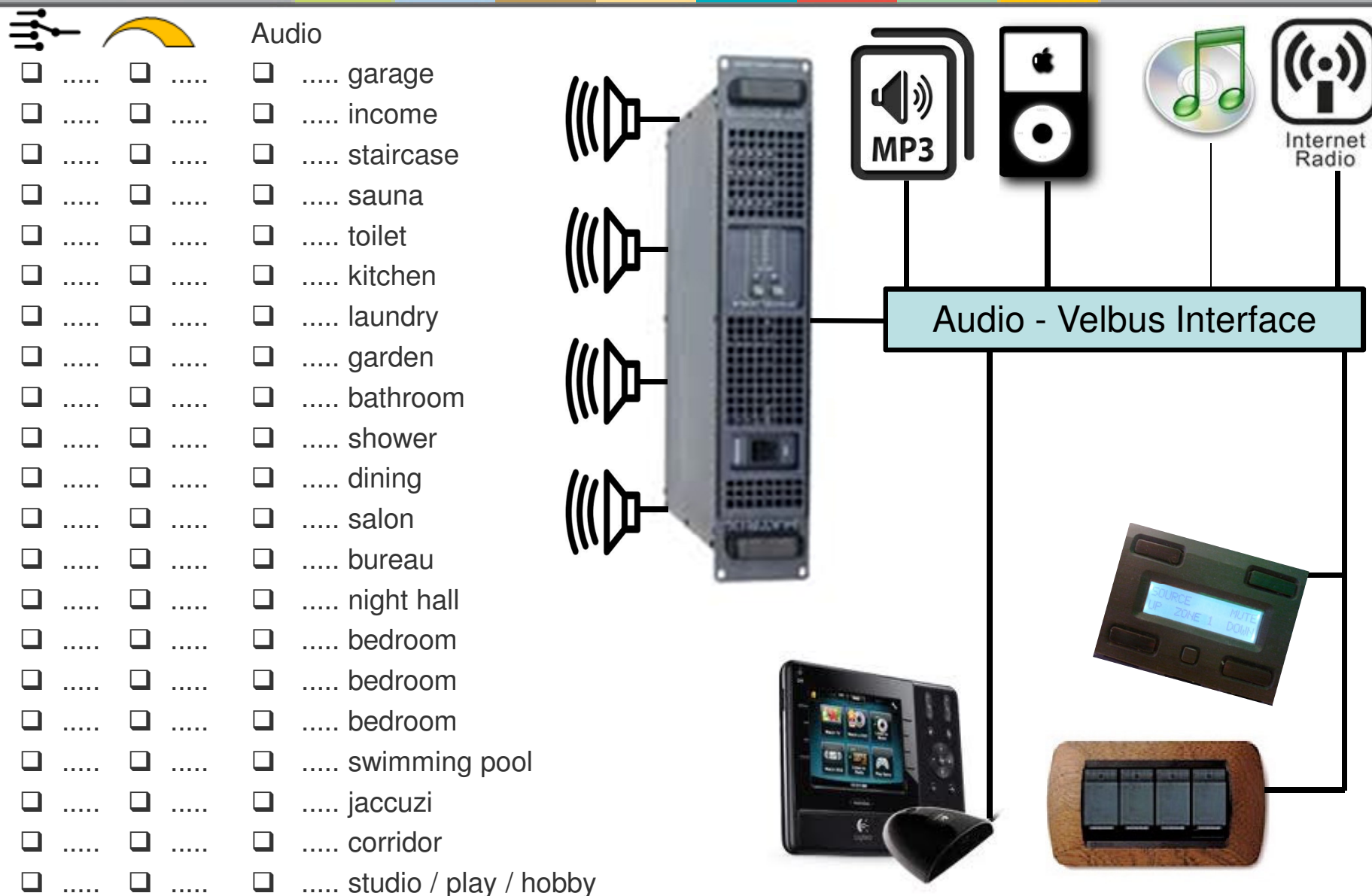


								
☐ facade	☐	☐	☐	☐	☐	☐	☐	☐
☐ garden	☐	☐	☐	☐	☐	☐	☐	☐
☐ terrace	☐	☐	☐	☐	☐	☐	☐	☐
☐ garden house	☐	☐	☐	☐	☐	☐	☐	☐
☐ poolhouse	☐	☐	☐	☐	☐	☐	☐	☐
☐ carport / parking	☐	☐	☐	☐	☐	☐	☐	☐
☐ entrance	☐	☐	☐	☐	☐	☐	☐	☐
☐ porch	☐	☐	☐	☐	☐	☐	☐	☐
☐ gate	☐	☐	☐	☐	☐	☐	☐	☐
☐ irrigation	☐	☐	☐	☐	☐	☐	☐	☐
☐ sauna	☐	☐	☐	☐	☐	☐	☐	☐
☐ swimming pool / pond ...	☐	☐	☐	☐	☐	☐	☐	☐
☐ pumps	☐	☐	☐	☐	☐	☐	☐	☐
☐ solar boiler / panels	☐	☐	☐	☐	☐	☐	☐	☐
☐ 3-way valves	☐	☐	☐	☐	☐	☐	☐	☐
☐ schemerschakelaar	☐	☐	☐	☐	☐	☐	☐	☐
☐ alarm door contacts	☐	☐	☐	☐	☐	☐	☐	☐
☐ motion sensor	☐	☐	☐	☐	☐	☐	☐	☐
☐ CCTV	☐	☐	☐	☐	☐	☐	☐	☐
☐ video-intercom	☐	☐	☐	☐	☐	☐	☐	☐

								
☐ garage	☐	☐	☐	☐	☐	☐	☐	☐
☐ income	☐	☐	☐	☐	☐	☐	☐	☐
☐ stairway	☐	☐	☐	☐	☐	☐	☐	☐
☐ storage.....	☐	☐	☐	☐	☐	☐	☐	☐
☐ toilet	☐	☐	☐	☐	☐	☐	☐	☐
☐ kitchen	☐	☐	☐	☐	☐	☐	☐	☐
☐ laundry	☐	☐	☐	☐	☐	☐	☐	☐
☐ bathroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ shower	☐	☐	☐	☐	☐	☐	☐	☐
☐ dining	☐	☐	☐	☐	☐	☐	☐	☐
☐ salon	☐	☐	☐	☐	☐	☐	☐	☐
☐ bureau	☐	☐	☐	☐	☐	☐	☐	☐
☐ night hall	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ corridor	☐	☐	☐	☐	☐	☐	☐	☐
☐ studio / play / hobby	☐	☐	☐	☐	☐	☐	☐	☐

								
☐ garage	☐	☐	☐	☐	☐	☐	☐	☐
☐ income	☐	☐	☐	☐	☐	☐	☐	☐
☐ stairway	☐	☐	☐	☐	☐	☐	☐	☐
☐ storage.....	☐	☐	☐	☐	☐	☐	☐	☐
☐ toilet	☐	☐	☐	☐	☐	☐	☐	☐
☐ kitchen	☐	☐	☐	☐	☐	☐	☐	☐
☐ laundry	☐	☐	☐	☐	☐	☐	☐	☐
☐ bathroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ shower	☐	☐	☐	☐	☐	☐	☐	☐
☐ dining	☐	☐	☐	☐	☐	☐	☐	☐
☐ salon	☐	☐	☐	☐	☐	☐	☐	☐
☐ bureau	☐	☐	☐	☐	☐	☐	☐	☐
☐ night hall	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ bedroom	☐	☐	☐	☐	☐	☐	☐	☐
☐ corridor	☐	☐	☐	☐	☐	☐	☐	☐
☐ studio / play / hobby	☐	☐	☐	☐	☐	☐	☐	☐

								
☐ basement	☐	☐	☐	☐	☐	☐	☐	☐
☐ attic	☐	☐	☐	☐	☐	☐	☐	☐
☐ staircase	☐	☐	☐	☐	☐	☐	☐	☐
☐ storage	☐	☐	☐	☐	☐	☐	☐	☐
☐ toilet	☐	☐	☐	☐	☐	☐	☐	☐
☐ wine cellar	☐	☐	☐	☐	☐	☐	☐	☐
☐ laundry.....	☐	☐	☐	☐	☐	☐	☐	☐
☐ shower	☐	☐	☐	☐	☐	☐	☐	☐
☐ sauna	☐	☐	☐	☐	☐	☐	☐	☐
☐ jacuzzi	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ garage gate								
☐ door & window contacts								
☐ alarm								
☐ motion detectors								
☐ video-intercom								
☐ heating								
☐ ventilation								



SOLVI

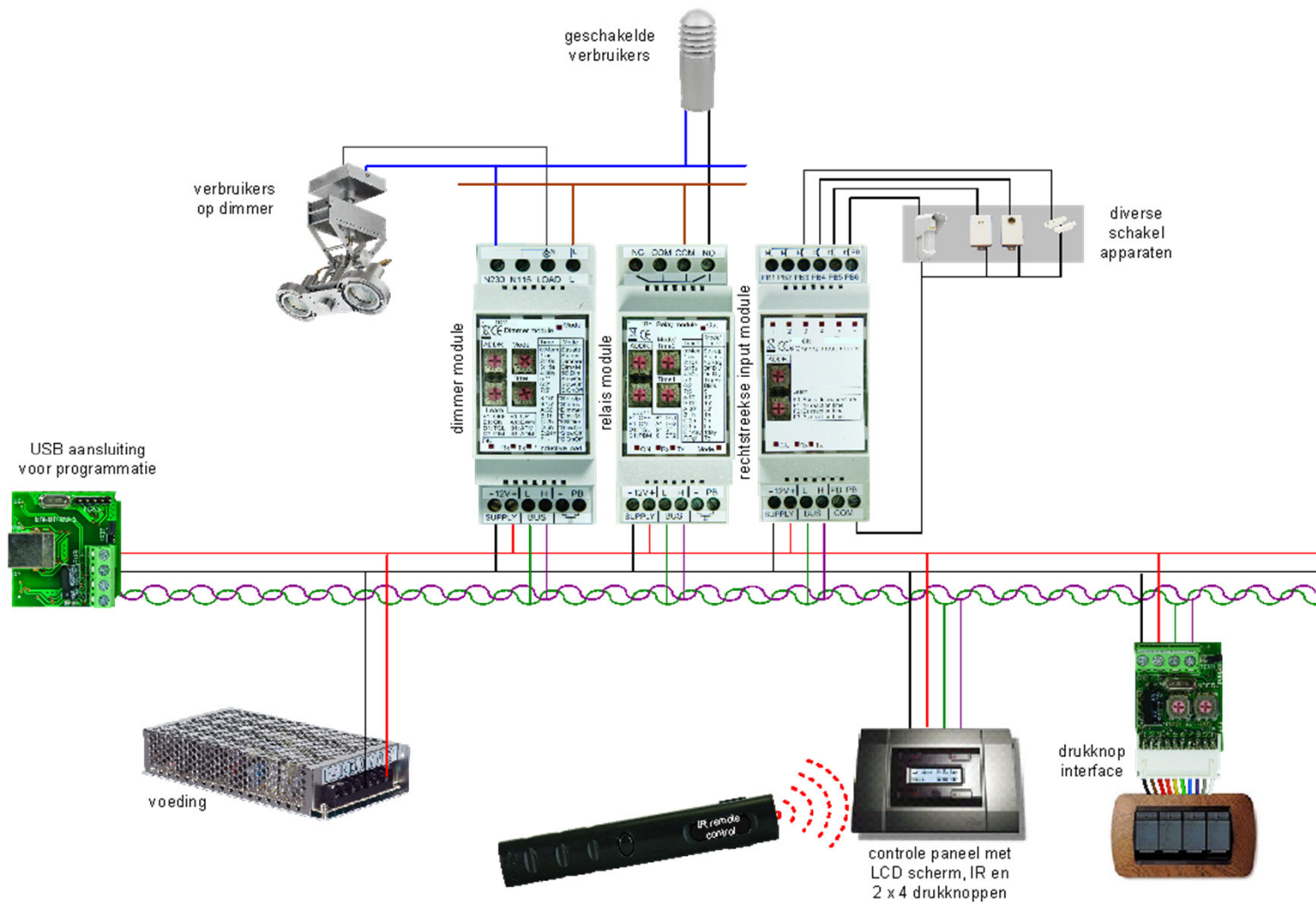


We have chosen for a system that is :

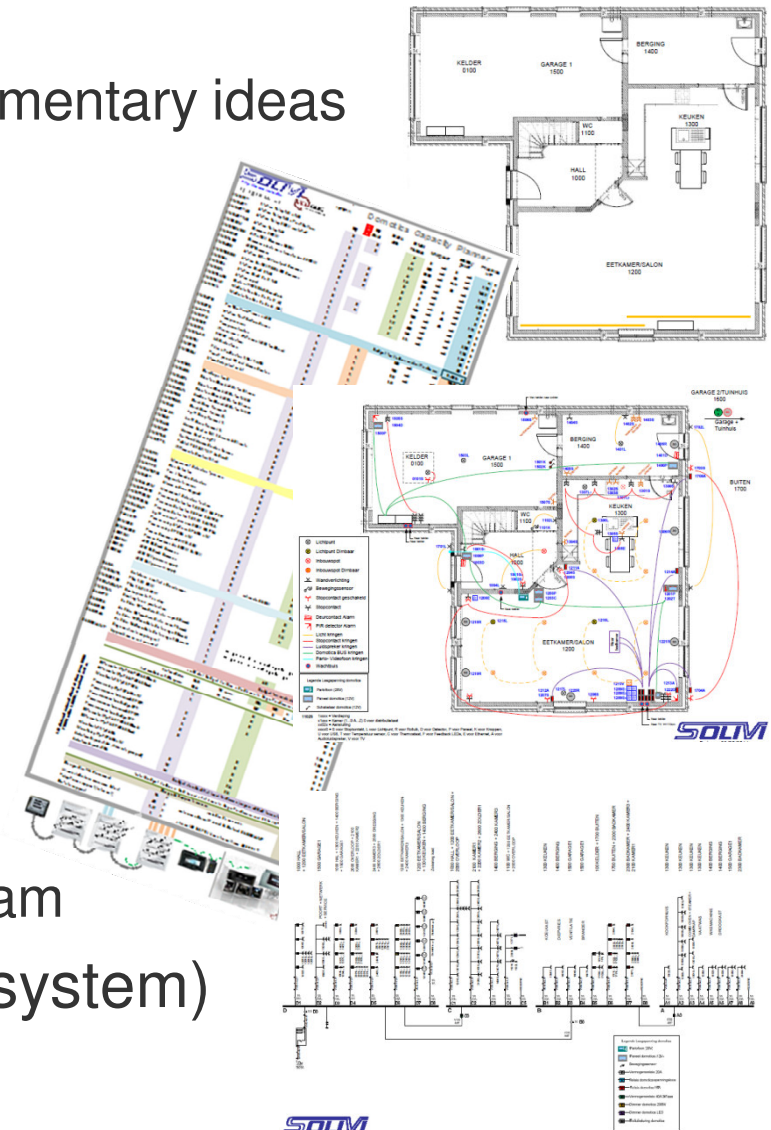
- user-friendly, easy to use and install
- modular, expandable, robust and reliable
- adaptable and programmable by the end-user
- a concept without central system (no single-point-of-failure)
- has a non-critical bus structure (can combine star, loop, tree)
- allows for simultaneous input signals (robust CANBUS protocol)
- accepts all kinds of switches (all debouncing values)
- switches with relais and regulates with dimmers
- integrates with different steerings (0-10V, DMX, IR ...)
- allows to integrate audio (all brands)
- economic and competitive



Home Automation - Example



- ± 2 hours discussion of your project
 - your vision + our experience = complementary ideas
 - checklist
 - circuits for lighting, outlets, equipment
 - your network : LAN, WiFi, Router, Switch
 - your media : TV, SATV, audio, multiroom
 - video : intercom, cctv
 - alarm
- Capacity Planner : ➔ budget quote
- adjustments
 - project maps & document
 - simplified electrical diagram
 - validation of maps and electrical diagram
- on-site cabling (respect numbering system)
- cabling domotics / network cabinet



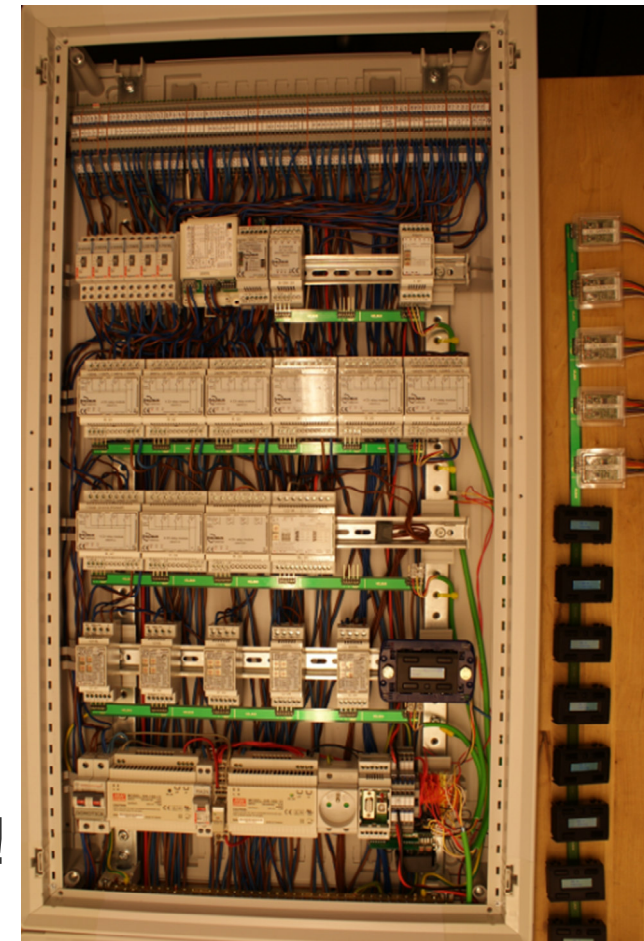


Home Automation - Example

- from full DIY package to pre-wired, tested, pre-programmed and installed



- operational in 4 hours : yes you can !
- remote support : yes we can !
- self programming : yes you can !
 - software is free
 - extensive user forum
 - training sessions
- You're still asking for help : yes we can !

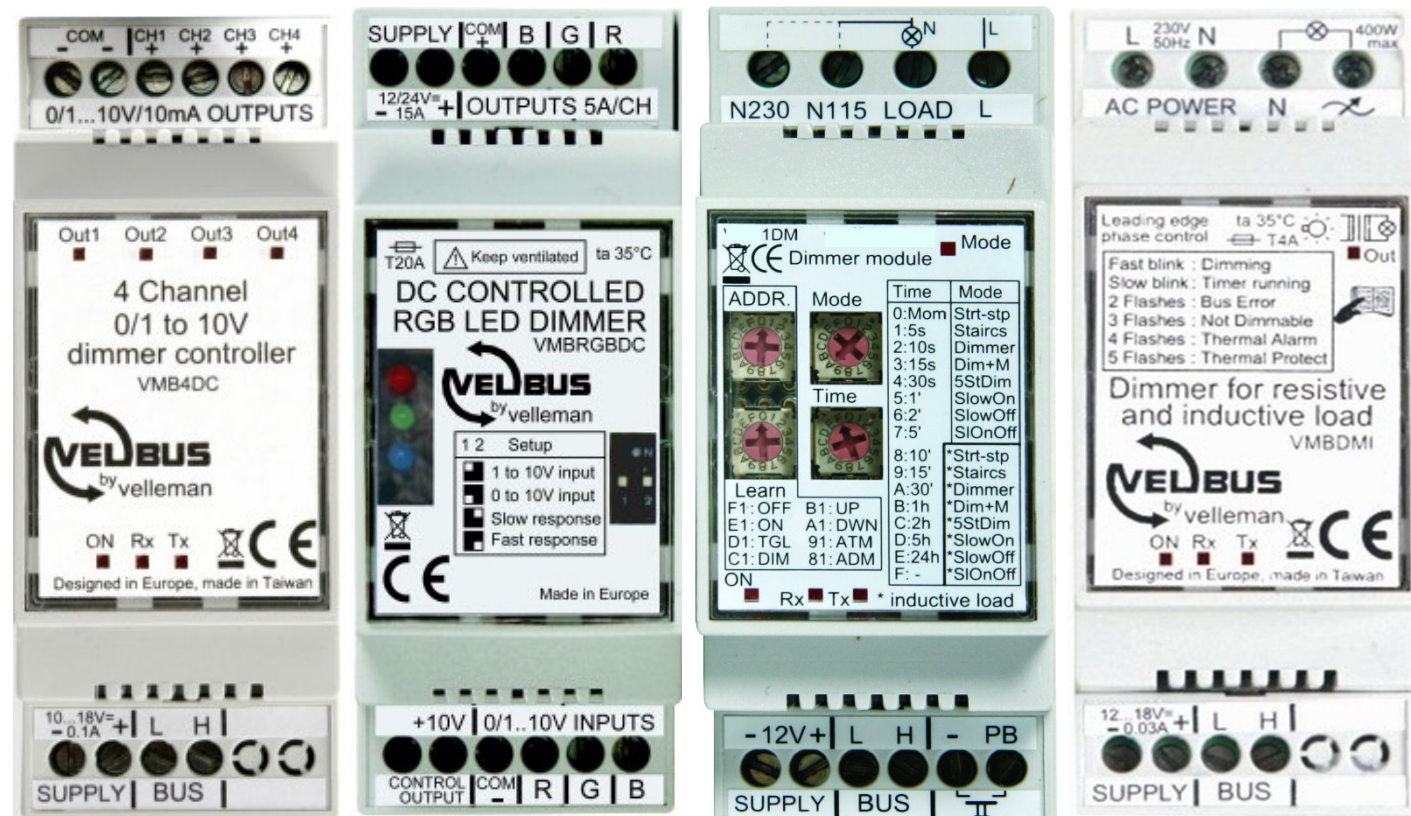


SOLIVI Home automation - Dimming

200W, 400W, 600W 230V Dimmer modules (resistive / inductive loads)

12V – 24V LED Dimmer (monochrome / RGB)

0/1 - 10V drive



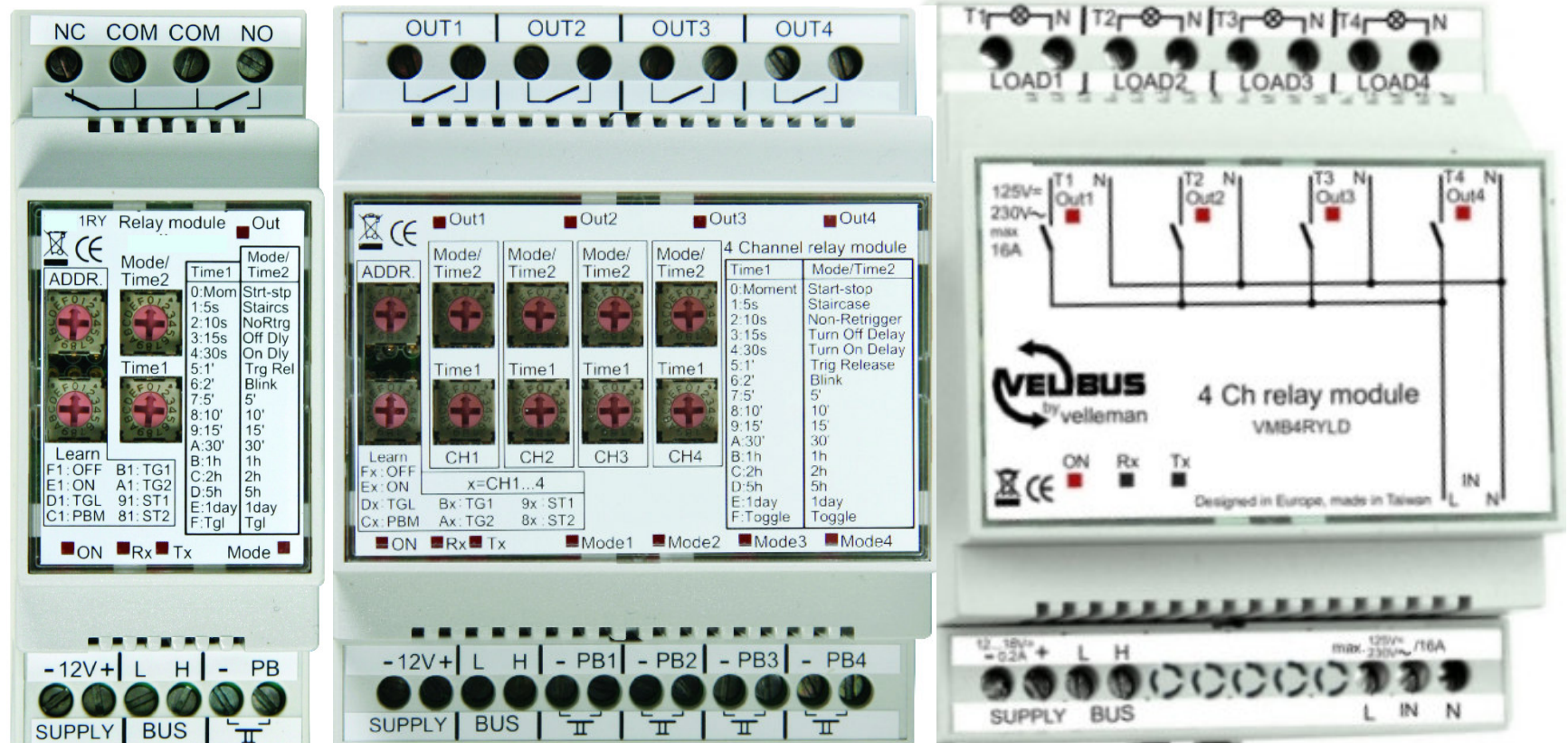


Home Automation – Switching

Single SPDT relay with 1 x NO and 1 x NC

4-fold SPST relays with 4 x NO or direct current output

Relay contacts are 230V 16A



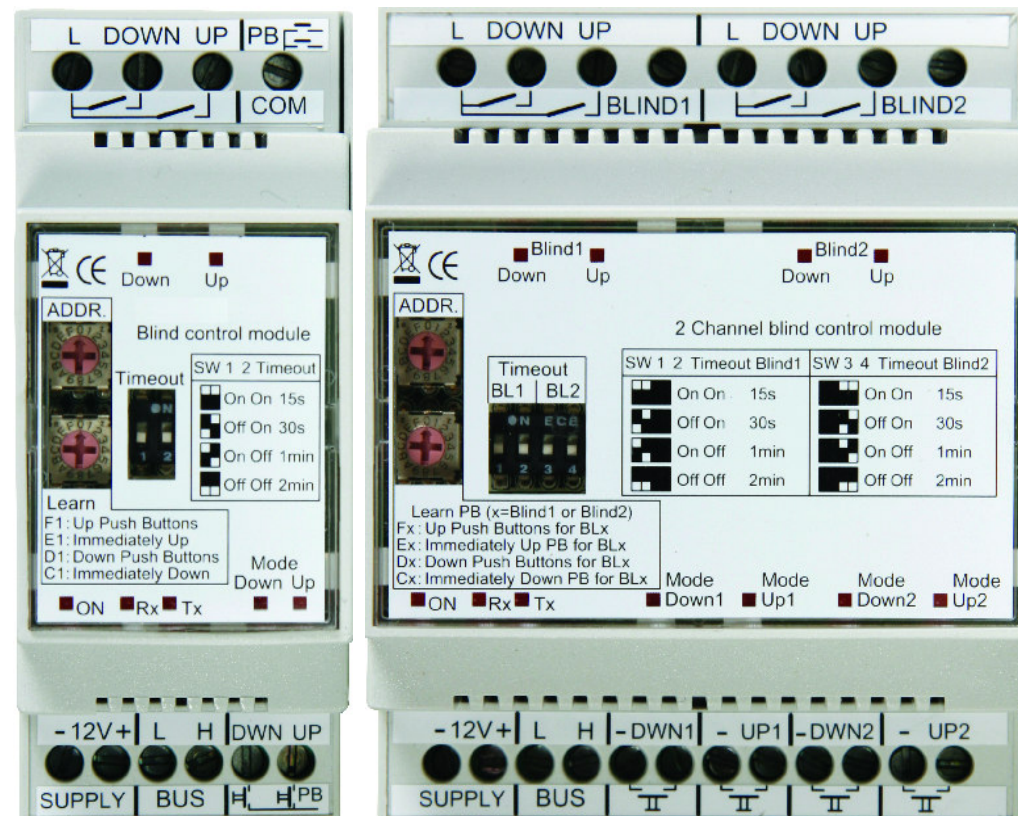


Home Automation - Blinders

Single blinder relay with
1 x NO up + 1 x NO down

Double blinder relays with
1 x NO up + 1 x NO down
1 x NO up + 1 x NO down

Relay contacts are
230V 16A

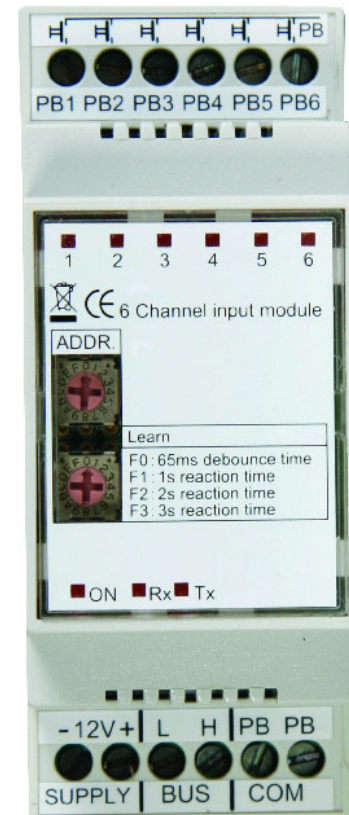
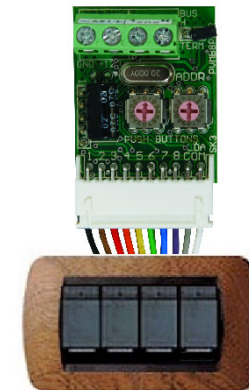
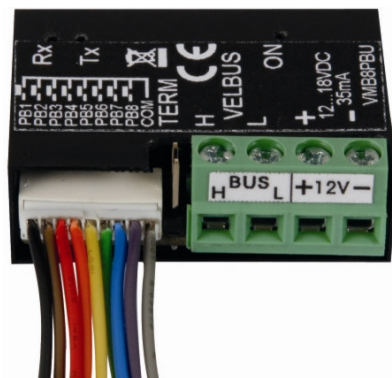


SOLIVI Home Automation – Inputs

6-, 7- and 8-fold input modules for

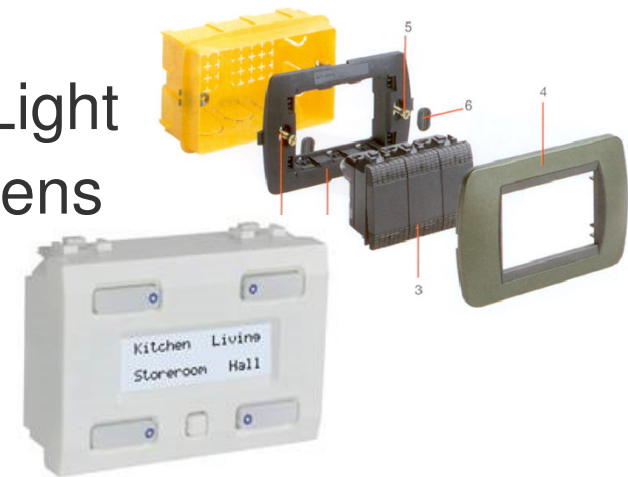
- long distance switches / contacts
- switches / contacts that are not connected to the bus
- detectors and sensors (potential-free contacts)
- alarm relays / input

Pushbutton interface (up to 8 per module) placed behind the pushbuttons and connected to the bus (Niko® bticino® or any other brand)



Pushbuttons with display :

- past in een 3-unit box van bticino Living/Light
- bticino Living/Light frames passen eveneens
- 2 of 4 x 4 knoppen beschikbaar
- IR ontvanger, compatiebel met bvb de Logitech universele afstandsbedieningen bedien zowel uw multimedia als uw Velbus installatie met dezelfde afstandsbediening ook in RF



Thermostaat module en t° voelers



Programmatie via USB module :

- gratis software
- minimum 1 module voorzien





Home Automation – Connecting

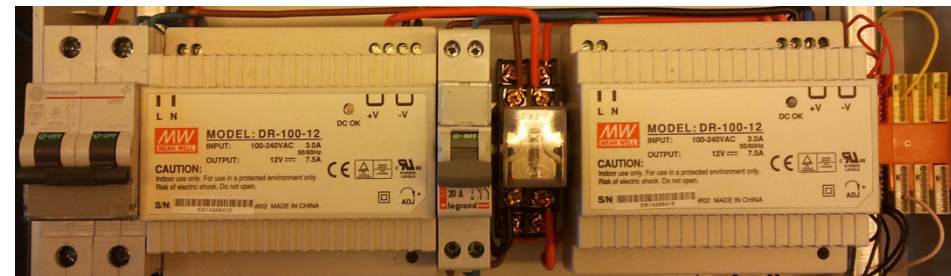
- module power and bus distribution through rail system



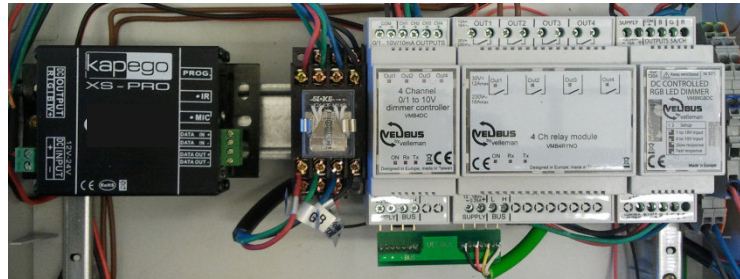
- easy
- reliable
- hot-swap modules possible
- clear overview
- timesaving



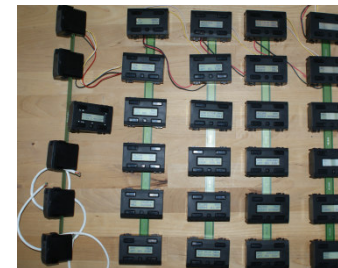
- redundant power supply (new module coming soon)
 - automatic switchover to backup psu
 - manual backup override
 - no-break with battery
 - short-circuit protected
 - self-restoring fuse



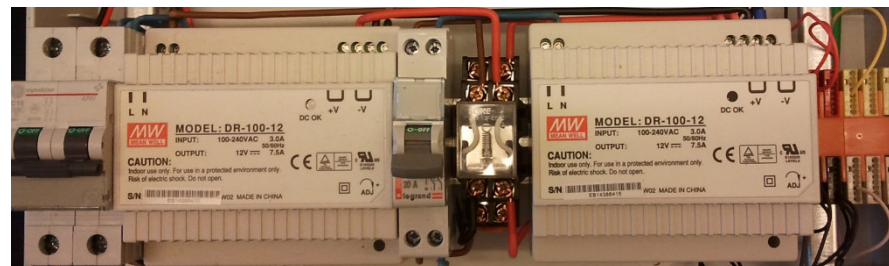
- RGB advertising



- Pre-programming saves time and makes you very fast operational



- Finished home automation and circuitbreaker cabinets
- Automatic redundant power supply

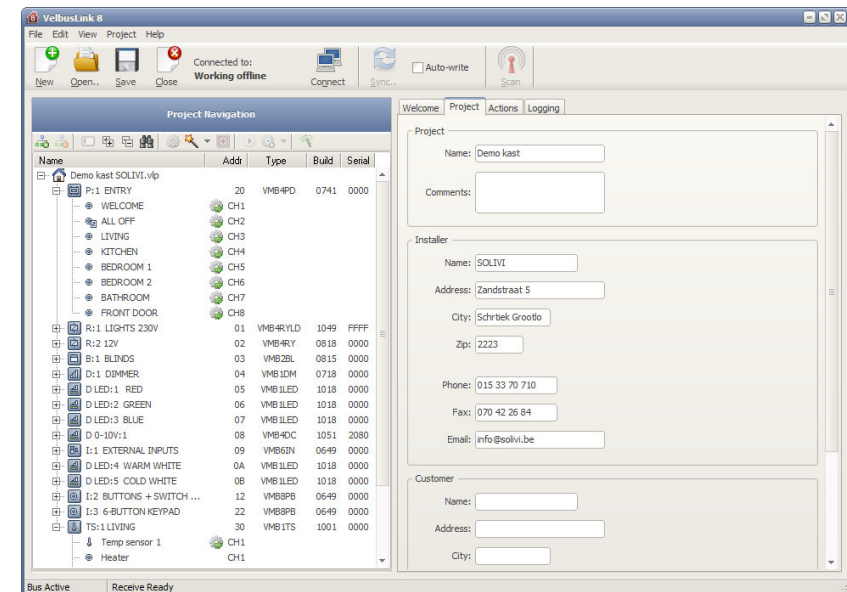




Home Automation - Software



- free-of-charge downloadable on manufacturer website
- extensive user forum
- own naming convention for each module
- own naming for each input/output channel
- connect output modules with pushbuttons
- define week-Timers per LCD / OLED pushbuttons
- simulate pushbuttons
- logging of BUS traffic
- configure i/o modules
- adapt LCD / OLED display text
- Backup utility
- includes PDF manual

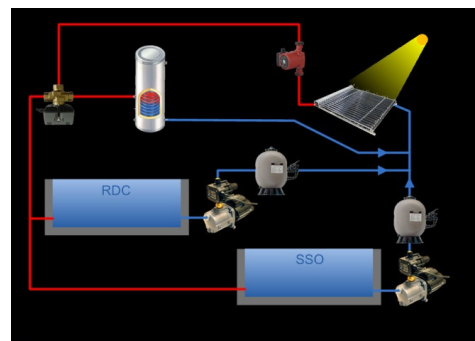
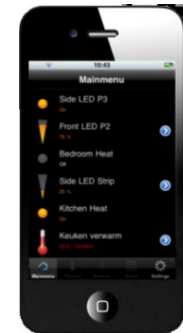




Home Automation - Software



- user-friendly monitoring / command
- free background (jpg file)
- Windows / iPhone / iPad / Android compatibel
- touch-screen recommended for your comfort



Allows to demonstrate / test the basic functionality of the system.

Transparant Demo box content :

- 4-relay module
- Pushbutton module with display
- USB module
- 12V power supply





Electricity – DIY assistance

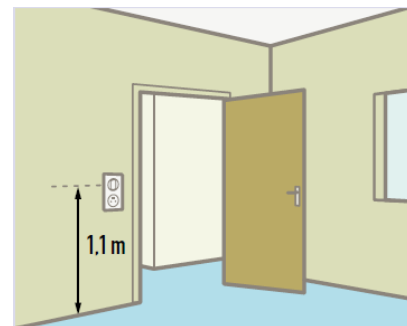


Lighting

- ☐ minimum 2 circuits
- ☐ cabling with 1,5mm²
- ☐ automatic circuit breaker 16A max
- ☐ minimum 1 per room

Lighting commands

- ☐ close to each entry
- ☐ between 0,90 and 1,30 m
- ☐ 1,70 m for LCD / OLED pushbutton
- ☐ minimum 1 per room



Outlets

- ☐ minimum one outlet
- ☐ cabling with 2,5mm²
- ☐ automatic circuit breaker 20A max (16A if single pole interruption)
- ☐ maximum 8 per circuit
- ☐ minimum 15cm above final floor level (25cm in wet areas)
- ☐ double, 3-fold or 4-fold counting as single
- ☐ a lighting point on an outlet counts as an outlet
- ☐ dining : 1 per 4m², minimum 5
- ☐ bedroom : 3
- ☐ kitchen : 6, 4 in the workplane
- ☐ others > 4m² : 1

Separated circuits

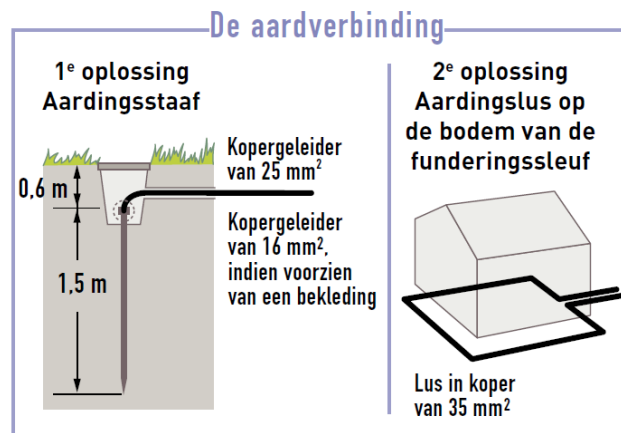
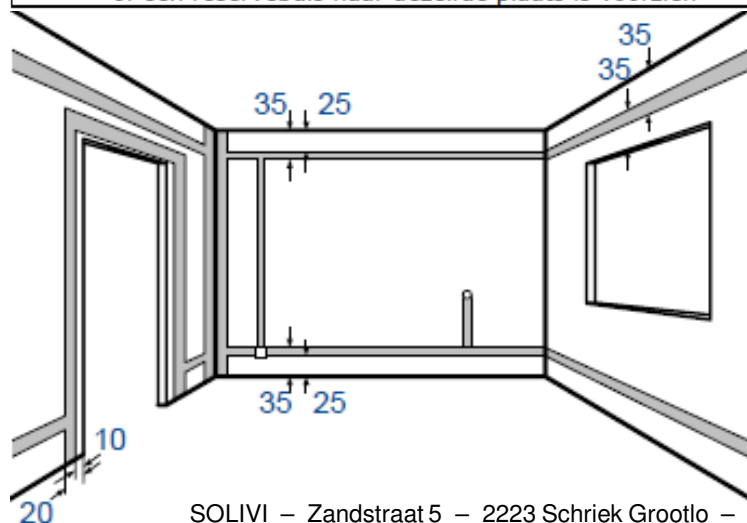
- ☐ washing machine 3-phase 4mm² (monophase 6mm²)
- ☐ dryer
- ☐ dishwasher
- ☐ steamer
- ☐ oven 3-phase 4mm² (1-phase 6mm²)
- ☐ stove 3-phase 4mm² (1-phase 6mm²)
- ☐ central heating

Domotics / Signaling

- ☐ 1,70 m for LCD / OLED pushbutton
- ☐ use EIB-cable
- ☐ automatic circuit breaker 4A

Doorsnede in mm ²	Nominale stroom smeltveiligheid	Nominale stroom automaat
1,5	10 A	16 A
2,5	16 A	20 A
4	20 A	25 A
6	32 A	40 A
10	50 A	63 A
16	63 A	80 A
25	80 A	100 A
35	100 A	125 A

Gebruik	Minimale doorsnede
Sturing, controle, signalisatie (bij domotica)	0,5 mm ²
Verlichting	1,5 mm ²
Stopcontacten (ook indien beveiligd met 16A !)	2,5 mm ²
Gemengde kringen (verlichting én stopcontacten)	2,5 mm ²
Elektrisch fornuis of wasmachine, 3-fazig gevoed	4 mm ²
Elektrisch fornuis of wasmachine, enkelfazig gevoed	6 mm ²
Elektrisch fornuis of wasmachine, enkelfazig gevoed, indien : - de stroombaan geplaatst is in opbouw - of de stroombaan geplaatst is in een buis van min. 1" - of een reservebuis naar dezelfde plaats is voorzien	2,5 mm ²



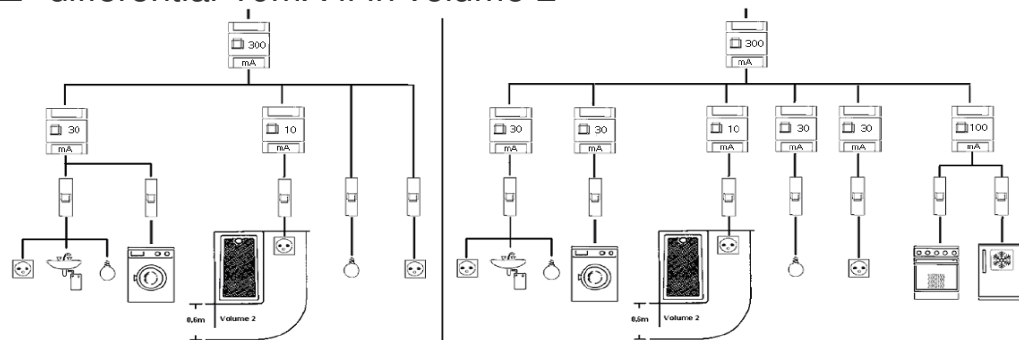
Nulleider: verplicht blauw

Aarde: verplicht tweekleurig groen/geel

Fase: elke andere kleur (geen blauw, groen of geel, vaak rood, bruin of zwart)

Plaatsingswijze	VOB/VOBs/ VOBst	VVB (XVB)	VFVB (XFVB)	VGVB
In een kunststof- of metalen buis	ja	ja	ja	ja
In niet-metalen en onbrandbare plinten	ja	ja	ja	ja
Opbouwmontage	nee	ja	ja	ja
Ingebouwd in muren, zonder buizen (*)	nee	ja	ja	nee

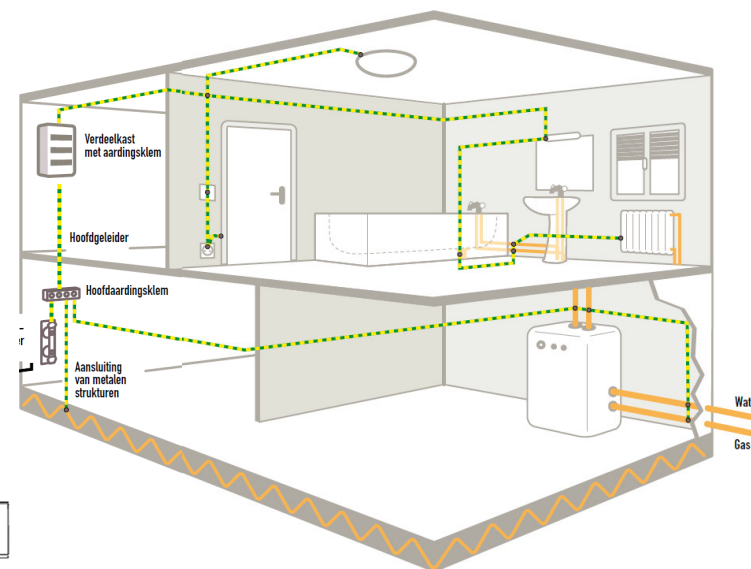
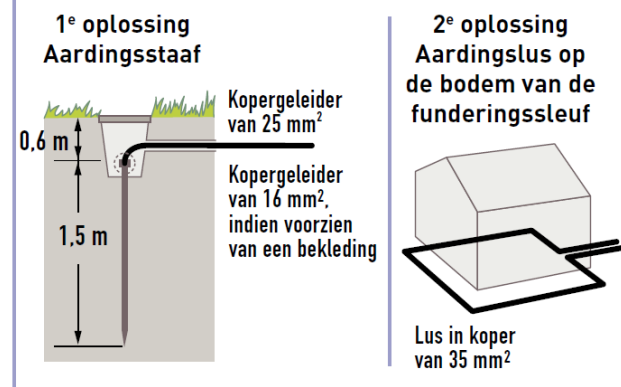
- ☐ may never be greater than 100 Ohm
- ☐ if > 30 Ohm
 - ☐ 30mA for lighting
 - ☐ 30mA per 16 outlets
 - ☐ 100mA freezer, refrigerator, stove
 - ☐ 100mA floor heating resistors
- ☐ equipotential connection / main earthing terminal 6mm²
- ☐ all metal tubing and structural elements 4 mm²
- ☐ bathroom / shower 2,5mm², 4 mm² if not in tubing
- ☐ lighting 1,5mm², outlets 2,5mm²
- ☐ main differential 300mA 40A sealable
- ☐ differential type A indication 3kA/22,5kA²s
- ☐ differential 30mA for bathroom, shower, washing machine, dryer, dishwasher
- ☐ differential 10mA if in volume 2



Aardingsweerstand < 30 Ohm

30 Ohm < Aardingsweerstand < 100 Ohm

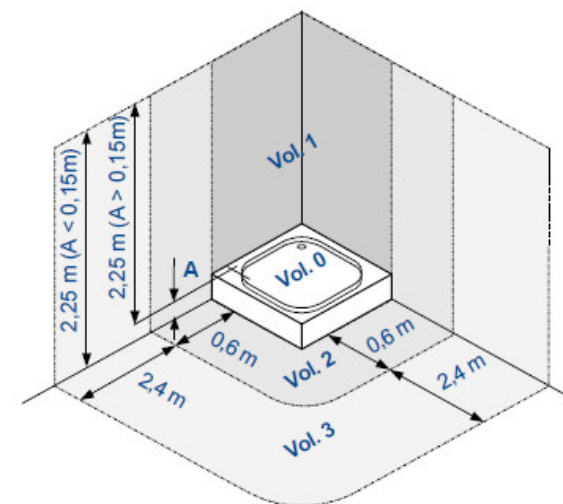
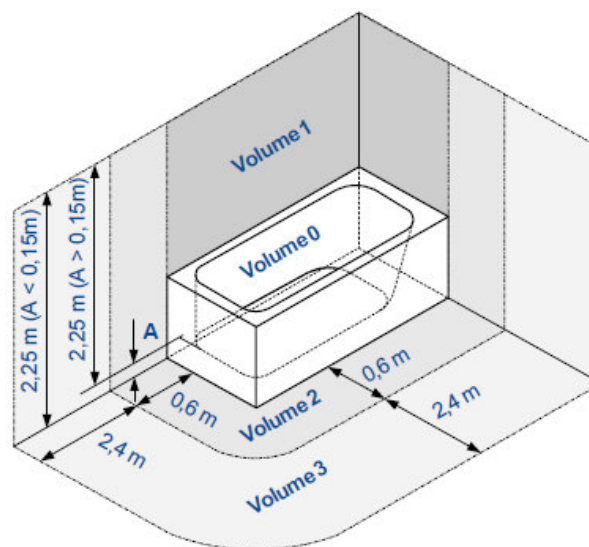
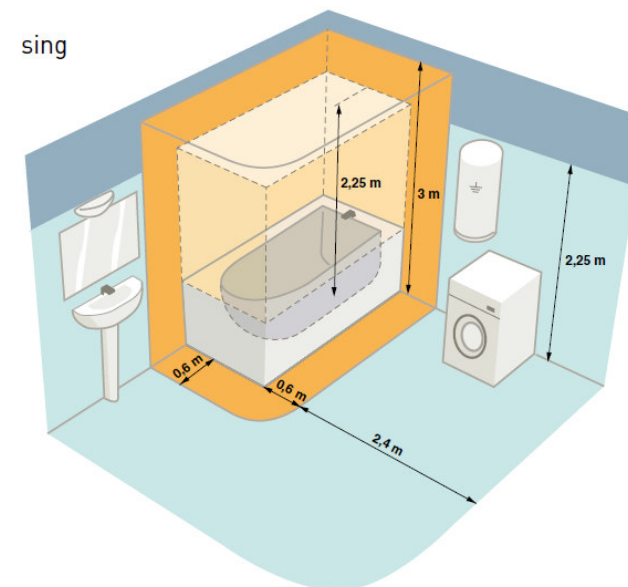
De aardverbinding



Materiaal	Beveiligingsmaatregel	Volumes			
		0 IPx7	1 IPx5	2 IPx4	3 IPx1
Wasmachine, droogkast	Klasse I				
Verwarmingstoestellen	Klasse I				
	Klasse II				
Verlichting	Klasse I				
	Klasse II				
	ZLVS 12 V AC	(1)	(1)	(2)	
Vaste waterverwarmer	Klasse I				
Schakelaar	ZLVS 12 V		(1)	(1)	(2)
Contactdoos 2P+A					
Contactdoos scheerapparaat (20 tot 50 VA)	Scheidingstransformator				
Scheidingstransformator					
Leiding			(3)	(3)	
Aansluitdoos			(4)	(4)	

- (1) scheidingstransformator buiten de volumes 0,1 en 2
 (2) de spanning kan worden verhoogd tot 25 V
 (3) beperkt tot de voeding van de apparaten die zijn toegelaten in deze volumes
 (4) voor directe voeding van een apparaat

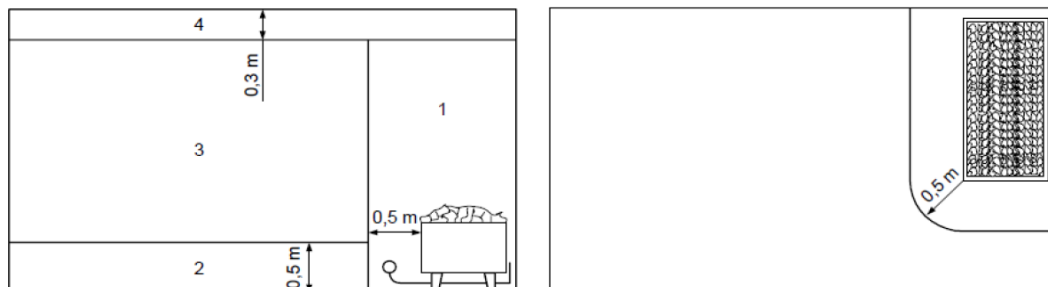
niet toegestaan
 toegestaan

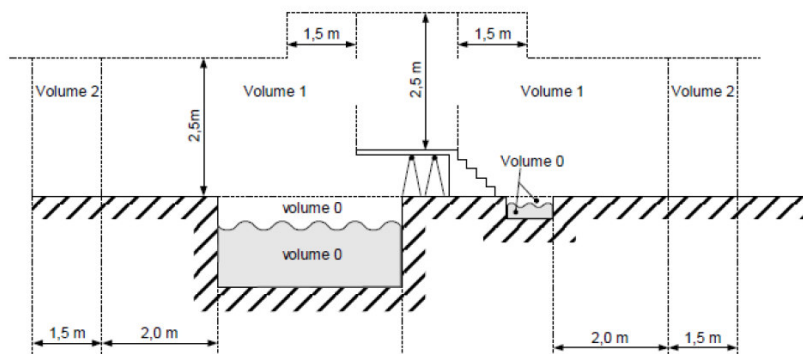


Volume	Toegelaten elektrisch materieel	Beschermingsgraad
1	Enkel materieel dat bij de verwarmingstoestellen hoort	of voeding $\leq 25\text{Vac}$ of IPx4 + individuele beschermingstrafo of IPx4 + klasse II of IPx4 + klasse I + differentieel $\leq 30\text{mA}$
2	Verlichting en bediening	of voeding $\leq 25\text{Vac}$ of IPx4 + individuele beschermingstrafo of IPx4 + klasse II of IPx4 + klasse I + differentieel $\leq 30\text{mA}$
3	Verlichting en bediening	of voeding $\leq 25\text{Vac} + \leq 125\text{ }^{\circ}\text{C}$ of IPx4 + individuele beschermingstrafo + $\leq 125\text{ }^{\circ}\text{C}$ of IPx4 + klasse II + $\leq 125\text{ }^{\circ}\text{C}$ of IPx4 + klasse I + differentieel $\leq 30\text{mA}$ + $\leq 125\text{ }^{\circ}\text{C}$
4	Verlichting en bediening Temperatuursvoelers	of voeding $\leq 25\text{Vac} + \leq 125\text{ }^{\circ}\text{C}$ of IPx4 + individuele beschermingstrafo + $\leq 125\text{ }^{\circ}\text{C}$ of IPx4 + klasse II + $\leq 125\text{ }^{\circ}\text{C}$ of IPx4 + klasse I + differentieel $\leq 30\text{mA}$ + $\leq 125\text{ }^{\circ}\text{C}$

Met : Klasse I = toestel dat op de aarding dient aangesloten te worden

Klasse II = toestel met dubbele isolatie (symbool : )





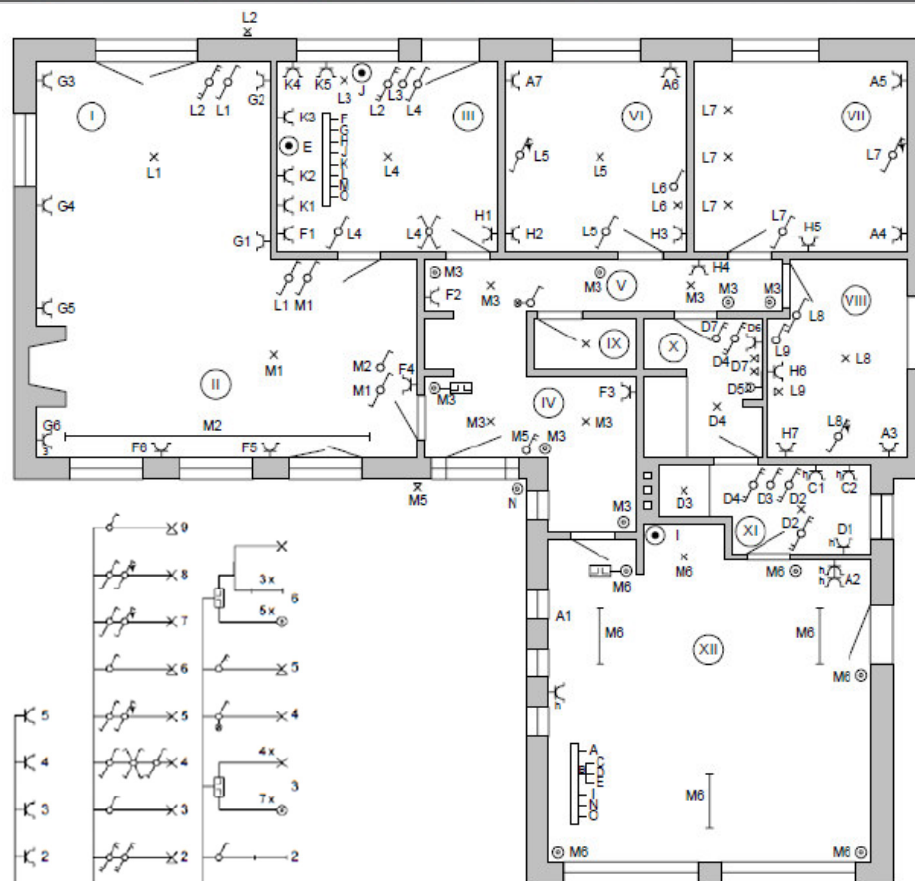
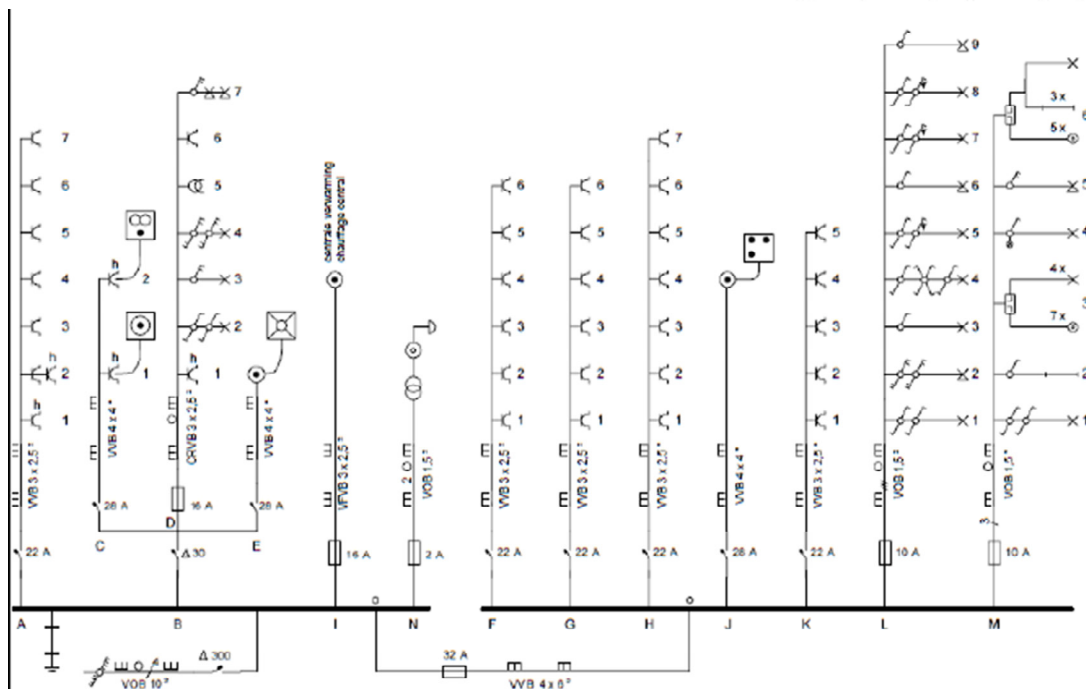
Volume	Toegelaten elektrisch materiaal	Beschermingsgraad
Volume 0	Verlichting	IPx7 + voeding $\leq 12\text{Vac}$
	Andere toestellen, noodzakelijk voor het zwembad	IPx7 + klasse II + of individuele beschermingstrafo of voeding $\leq 12\text{Vac}$ of differentieel $\leq 30\text{mA}$
Volume 1 : 0 tot 1,25m	Verlichting	of IPx5 + voeding $\leq 12\text{Vac}$ of $\leq 2,25\text{m}$ hoog + enkel te openen met gereedschap
	Verwarmingsweerstand in vloer en wand	Bedekt met metalen net verbonden met bijkomende equipotentiaal
	Verbindingsdozen	IPx5 + voeding $\leq 12\text{Vac}$
	Andere toestellen, noodzakelijk voor het zwembad	IPx5 + klasse II + of individuele beschermingstrafo of voeding $\leq 12\text{Vac}$ of differentieel $\leq 30\text{mA}$
Volume 1 : 1,25 tot 2m	Stopcontacten	$\leq 0,3\text{m}$ hoog + isolerend omhulsel + of IPx4 + voeding $\leq 25\text{Vac}$ * of individuele beschermingstrafo of differentieel $\leq 30\text{mA}$
	Verlichting	of IPx4 + voeding $\leq 25\text{Vac}$ * of $\leq 2,25\text{m}$ hoog + enkel te openen met gereedschap
	Verwarmingsweerstand in vloer en wand	Bedekt met metalen net verbonden met bijkomende equipotentiaal
	Verbindingsdozen	IPx4 + voeding $\leq 25\text{Vac}$ *
	Andere toestellen, noodzakelijk voor het zwembad	IPx4 + klasse II + of individuele beschermingstrafo of voeding $\leq 25\text{Vac}$ * of differentieel $\leq 30\text{mA}$
Volume 2	Stopcontacten	of IPx4 + voeding $\leq 25\text{Vac}$ * of individuele beschermingstrafo of differentieel $\leq 30\text{mA}$
	Verlichting	of IPx4 + voeding $\leq 25\text{Vac}$ * of $\leq 2,25\text{m}$ hoog + enkel te openen met gereedschap
	Verwarmingsweerstand in vloer en wand	Bedekt met metalen net verbonden met bijkomende equipotentiaal
	Andere toestellen, noodzakelijk voor het zwembad	IPx4 + klasse II of individuele beschermingstrafo of voeding $\leq 25\text{Vac}$ * of differentieel $\leq 30\text{mA}$

* : Indien gekozen wordt voor een ZLVS van 12Vac, dan is geen enkele beschermingsgraad vereist.

Klasse II = toestel met dubbele isolatie (symbool : )

Documentation should consist of

- ☐ simplified electrical drawing (in 3-fold)
- ☐ situation drawing (in 3-fold)
- ☐ any previous reports
- ☐ mentioning name, address, signature, date
 - ☐ owner / tenant
 - ☐ installer
 - ☐ certification body



Algemeen :

	Gelijkstroom		Wisselstroom
	Wisselstroom, éénfazig		Wisselstroom, driefazig

Elektrische toestellen :

	Verdeelbord		Aftakkast
	Verbindingsdoos, aftakdoos		Aardingsstrip

Leidingen :

	Leiding, algemeen symbool		Ondergrondse leiding
	Luchtleiding		Leiding in een buis
	Bundel van 6 geleiders in één buis		Leiding in een wand
	Leiding op een wand		Leiding in een buis in een wand
	Twee leidingen		n leidingen
	Leiding met 3 geleiders		Leiding met n geleiders
	Voorbeeld : XVB-kabel met vier geleiders (inclusief N en PE) van 4 mm ² , geplaatst in een buis in een wand.		
	Voorbeeld : 4 geleiders van het type VOB van 2,5 mm ² , geplaatst in een buis in een wand		

Beschermingstoestellen :

	Smeltveiligheid met een nominale waarde van 16A		Aardelektrode
	Automatische differentieelstroominrichting, met een gevoeligheid van 300mA		Automaat met een nominale waarde van 20A

Schakelaars :

	Schakelaar met verklikkerlamp		Tweepolige schakelaar
	Eénpolige wisselschakelaar		Tweepolige wisselschakelaar
	Kruisschakelaar		Dimmer
	Eénpolige trekschakelaar		Eénpolige schakelaar met signalisatielamp

	Drukknop		Drukknop met verklikkerlamp
	Drukknop met afgeschermd toegang (vb. noodschakelaar)		Impulsschakelaar
	Tijdsschakelaar		Schakelklok
	Thermostaat		

Stopcontacten :

	Stopcontact, algemeen symbool		Drievoudig stopcontact
	Stopcontact met contact voor beschermingsgeleider		Stopcontact met kinderveiligheid
	Stopcontact met contact voor beschermingsgeleider en kinderveiligheid (meestal gebruikt in huishoudelijke installaties)		Stopcontact met beschermings-transformator (vb. : scheerapparaat)
	Stopcontact met tweepolige schakelaar		

Gebruikstoestellen :

	Lichtpunt		Wandverlichtingstoestel
	TL-lamp		Armatuur met 3 TL-lampen
	Projector		Verlichtingsarmatuur met ingebouwde, éénpolige schakelaar
	Noodverlichting, aangesloten op speciale stroombaan		Autonome noodverlichting
	Bel		Sirene
	Horloge		Ventilator
	Verwarmingstoestel		Verwarmingstoestel met accumulatie
	KWh-teller		Boiler
	Kookfornuis		Microgolfoven
	Oven		Wasmachine
	Droogkast		Vaatwasmachine
	Koelkast		Diepvriezer
	Motor		Transformator

SOLIVI ... together we can !

The screenshot shows the 'Domotica Capacity Planner' software. It features a list of components on the left, including various lighting fixtures (e.g., '1x 12W LED', '1x 18W LED'), switches, and sensors. The main area displays a table with columns for component name, quantity, and capacity. The table is organized into sections, with some rows highlighted in yellow and green. The bottom of the screen shows a summary of the total capacity for different categories.

Component	Quantity	Capacity
1x 12W LED	1	12W
1x 18W LED	1	18W
1x 24W LED	1	24W
1x 36W LED	1	36W
1x 48W LED	1	48W
1x 60W LED	1	60W
1x 72W LED	1	72W
1x 84W LED	1	84W
1x 96W LED	1	96W
1x 108W LED	1	108W
1x 120W LED	1	120W
1x 132W LED	1	132W
1x 144W LED	1	144W
1x 156W LED	1	156W
1x 168W LED	1	168W
1x 180W LED	1	180W
1x 192W LED	1	192W
1x 204W LED	1	204W
1x 216W LED	1	216W
1x 228W LED	1	228W
1x 240W LED	1	240W
1x 252W LED	1	252W
1x 264W LED	1	264W
1x 276W LED	1	276W
1x 288W LED	1	288W
1x 300W LED	1	300W
1x 312W LED	1	312W
1x 324W LED	1	324W
1x 336W LED	1	336W
1x 348W LED	1	348W
1x 360W LED	1	360W
1x 372W LED	1	372W
1x 384W LED	1	384W
1x 396W LED	1	396W
1x 408W LED	1	408W
1x 420W LED	1	420W
1x 432W LED	1	432W
1x 444W LED	1	444W
1x 456W LED	1	456W
1x 468W LED	1	468W
1x 480W LED	1	480W
1x 492W LED	1	492W
1x 504W LED	1	504W
1x 516W LED	1	516W
1x 528W LED	1	528W
1x 540W LED	1	540W
1x 552W LED	1	552W
1x 564W LED	1	564W
1x 576W LED	1	576W
1x 588W LED	1	588W
1x 600W LED	1	600W
1x 612W LED	1	612W
1x 624W LED	1	624W
1x 636W LED	1	636W
1x 648W LED	1	648W
1x 660W LED	1	660W
1x 672W LED	1	672W
1x 684W LED	1	684W
1x 696W LED	1	696W
1x 708W LED	1	708W
1x 720W LED	1	720W
1x 732W LED	1	732W
1x 744W LED	1	744W
1x 756W LED	1	756W
1x 768W LED	1	768W
1x 780W LED	1	780W
1x 792W LED	1	792W
1x 804W LED	1	804W
1x 816W LED	1	816W
1x 828W LED	1	828W
1x 840W LED	1	840W
1x 852W LED	1	852W
1x 864W LED	1	864W
1x 876W LED	1	876W
1x 888W LED	1	888W
1x 900W LED	1	900W
1x 912W LED	1	912W
1x 924W LED	1	924W
1x 936W LED	1	936W
1x 948W LED	1	948W
1x 960W LED	1	960W
1x 972W LED	1	972W
1x 984W LED	1	984W
1x 996W LED	1	996W
1x 1008W LED	1	1008W
1x 1020W LED	1	1020W
1x 1032W LED	1	1032W
1x 1044W LED	1	1044W
1x 1056W LED	1	1056W
1x 1068W LED	1	1068W
1x 1080W LED	1	1080W
1x 1092W LED	1	1092W
1x 1104W LED	1	1104W
1x 1116W LED	1	1116W
1x 1128W LED	1	1128W
1x 1140W LED	1	1140W
1x 1152W LED	1	1152W
1x 1164W LED	1	1164W
1x 1176W LED	1	1176W
1x 1188W LED	1	1188W
1x 1200W LED	1	1200W
1x 1212W LED	1	1212W
1x 1224W LED	1	1224W
1x 1236W LED	1	1236W
1x 1248W LED	1	1248W
1x 1260W LED	1	1260W
1x 1272W LED	1	1272W
1x 1284W LED	1	1284W
1x 1296W LED	1	1296W
1x 1308W LED	1	1308W
1x 1320W LED	1	1320W
1x 1332W LED	1	1332W
1x 1344W LED	1	1344W
1x 1356W LED	1	1356W
1x 1368W LED	1	1368W
1x 1380W LED	1	1380W
1x 1392W LED	1	1392W
1x 1404W LED	1	1404W
1x 1416W LED	1	1416W
1x 1428W LED	1	1428W
1x 1440W LED	1	1440W
1x 1452W LED	1	1452W
1x 1464W LED	1	1464W
1x 1476W LED	1	1476W
1x 1488W LED	1	1488W
1x 1500W LED	1	1500W
1x 1512W LED	1	1512W
1x 1524W LED	1	1524W
1x 1536W LED	1	1536W
1x 1548W LED	1	1548W
1x 1560W LED	1	1560W
1x 1572W LED	1	1572W
1x 1584W LED	1	1584W
1x 1596W LED	1	1596W
1x 1608W LED	1	1608W
1x 1620W LED	1	1620W
1x 1632W LED	1	1632W
1x 1644W LED	1	1644W
1x 1656W LED	1	1656W
1x 1668W LED	1	1668W
1x 1680W LED	1	1680W
1x 1692W LED	1	1692W
1x 1704W LED	1	1704W
1x 1716W LED	1	1716W
1x 1728W LED	1	1728W
1x 1740W LED	1	1740W
1x 1752W LED	1	1752W
1x 1764W LED	1	1764W
1x 1776W LED	1	1776W
1x 1788W LED	1	1788W
1x 1800W LED	1	1800W
1x 1812W LED	1	1812W
1x 1824W LED	1	1824W
1x 1836W LED	1	1836W
1x 1848W LED	1	1848W
1x 1860W LED	1	1860W
1x 1872W LED	1	1872W
1x 1884W LED	1	1884W
1x 1896W LED	1	1896W
1x 1908W LED	1	1908W
1x 1920W LED	1	1920W
1x 1932W LED	1	1932W
1x 1944W LED	1	1944W
1x 1956W LED	1	1956W
1x 1968W LED	1	1968W
1x 1980W LED	1	1980W
1x 1992W LED	1	1992W
1x 2004W LED	1	2004W
1x 2016W LED	1	2016W
1x 2028W LED	1	2028W
1x 2040W LED	1	2040W
1x 2052W LED	1	2052W
1x 2064W LED	1	2064W
1x 2076W LED	1	2076W
1x 2088W LED	1	2088W
1x 2100W LED	1	2100W
1x 2112W LED	1	2112W
1x 2124W LED	1	2124W
1x 2136W LED	1	2136W
1x 2148W LED	1	2148W
1x 2160W LED	1	2160W
1x 2172W LED	1	2172W
1x 2184W LED	1	2184W
1x 2196W LED	1	2196W
1x 2208W LED	1	2208W
1x 2220W LED	1	2220W
1x 2232W LED	1	2232W
1x 2244W LED	1	2244W
1x 2256W LED	1	2256W
1x 2268W LED	1	2268W
1x 2280W LED	1	2280W
1x 2292W LED	1	2292W
1x 2304W LED	1	2304W
1x 2316W LED	1	2316W
1x 2328W LED	1	2328W
1x 2340W LED	1	2340W
1x 2352W LED	1	2352W
1x 2364W LED	1	2364W
1x 2376W LED	1	2376W
1x 2388W LED	1	2388W
1x 2400W LED	1	2400W
1x 2412W LED	1	2412W
1x 2424W LED	1	2424W
1x 2436W LED	1	2436W
1x 2448W LED	1	2448W
1x 2460W LED	1	2460W
1x 2472W LED	1	2472W
1x 2484W LED	1	2484W
1x 2496W LED	1	2496W
1x 2508W LED	1	2508W
1x 2520W LED	1	2520W
1x 2532W LED	1	2532W
1x 2544W LED	1	2544W
1x 2556W LED	1	2556W
1x 2568W LED	1	2568W
1x 2580W LED	1	2580W
1x 2592W LED	1	2592W
1x 2604W LED	1	2604W
1x 2616W LED	1	2616W
1x 2628W LED	1	2628W
1x 2640W LED	1	2640W
1x 2652W LED	1	2652W
1x 2664W LED	1	2664W
1x 2676W LED	1	2676W
1x 2688W LED	1	2688W
1x 2700W LED	1	2700W
1x 2712W LED	1	2712W
1x 2724W LED	1	2724W
1x 2736W LED	1	2736W
1x 2748W LED	1	2748W
1x 2760W LED	1	2760W
1x 2772W LED	1	2772W
1x 2784W LED	1	2784W
1x 2796W LED	1	2796W
1x 2808W LED	1	2808W
1x 2820W LED	1	2820W
1x 2832W LED	1	2832W
1x 2844W LED	1	2844W
1x 2856W LED	1	2856W
1x 2868W LED	1	2868W
1x 2880W LED	1	2880W
1x 2892W LED	1	2892W
1x 2904W LED	1	2904W
1x 2916W LED	1	2916W
1x 2928W LED	1	2928W
1x 2940W LED	1	2940W
1x 2952W LED	1	2952W
1x 2964W LED	1	2964W
1x 2976W LED	1	2976W
1x 2988W LED	1	2988W
1x 3000W LED	1	3000W

