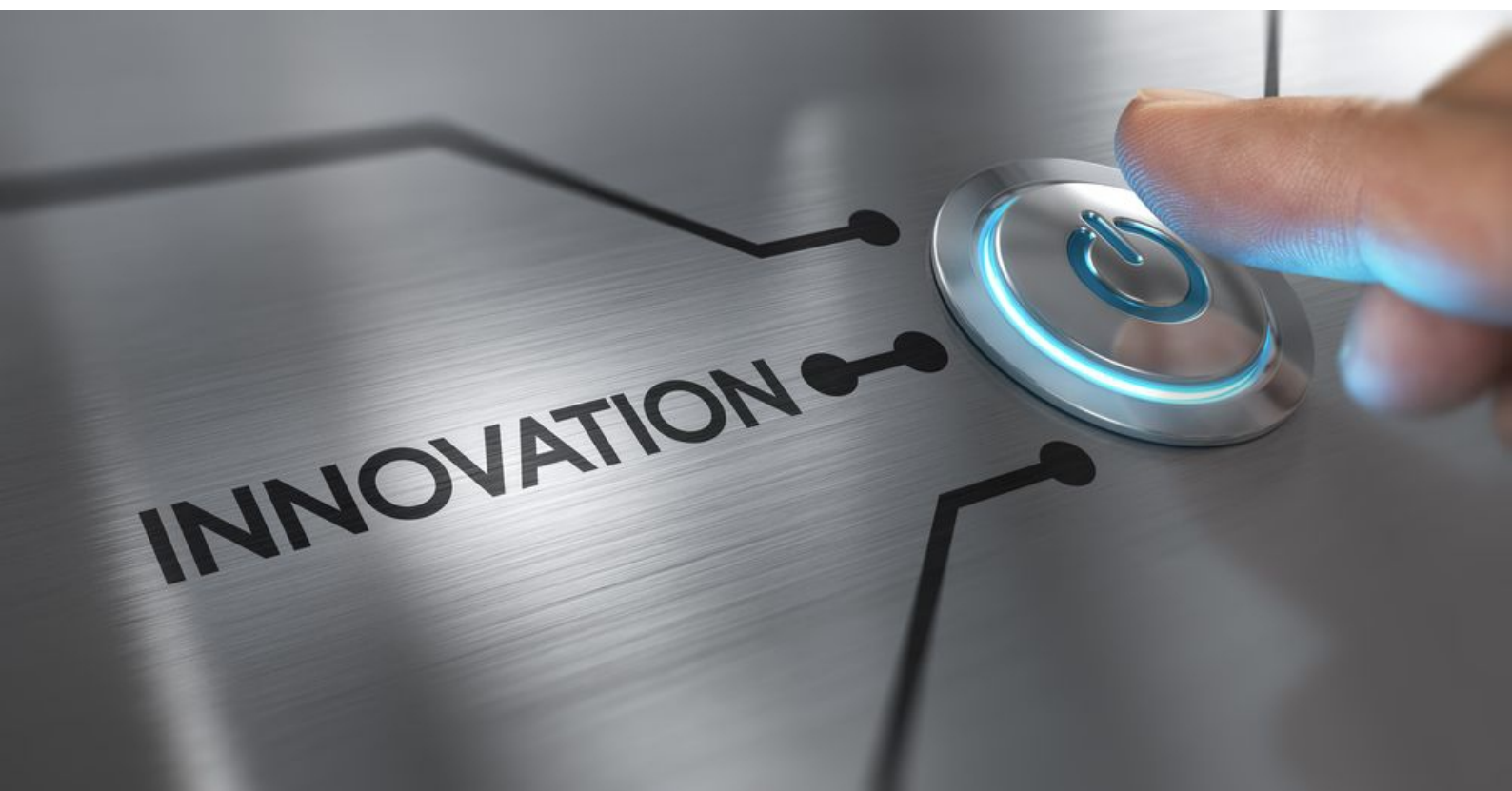




SMART
HOME

WHAT'S NEW

A year ago, we were working from home, worried about a new variant, and looking for smart tech to help us cope. As 2021 draws to a close, we're working from home, worried about a new variant, and looking for smart tech to help us cope. With that in mind, it's time for our annual roundup of the best of smart-home innovation. Along with the fact that they use tech to make life easier, the devices we've selected from hundreds of reviews boast exceptional design, versatility and value.



WHAT IS C BUS PROTOCOL

C-Bus is a communications protocol based on a seven layer OSI model for home and building automation that can handle cable lengths up to 1000 metres using Cat-5 cable. It is used in Australia, New Zealand, Asia, the Middle East, Russia, United States, South Africa, the UK and other parts of Europe including Greece and Romania. C-Bus was created by Clipsal Australia's Clipsal Integrated Systems[1] division (now part of Schneider Electric) for use with its brand of home automation and building lighting control system. C-Bus has been briefly available in the United States but Schneider Electric has now discontinued sales in the United States

C-Bus is used in the control of domotics, or home automation systems, as well as commercial building lighting control systems. Unlike the more common X10 protocol which uses a signal imposed upon the AC power line, C-Bus uses a dedicated low-voltage cable or two-way wireless network to carry command and control signals. This improves the reliability of command transmission and makes C-Bus far more suitable for large, commercial applications than X10.

The C-Bus System can be used to control lighting and other electrical systems and products automatically or via remote control and can also be interfaced to a home security system, AV products or other electrical items. The C-Bus system is available in a wired version and a wireless version, with a gateway available to allow messages to be sent between wired and wireless networks.

The wired C-Bus system uses a standard category 5 UTP (Unshielded Twisted Pair) cable as its network communications cable and does not require end of line termination. Clipsal manufactures a specific category 5 cable for use within electrical distribution panels. This cable has a pink outer sheath which is rated to ensure adequate electrical isolation between the mains voltages found in distribution panels and the extra low voltage C-Bus. Outside of distribution panels standard category 5 UTP cable can be used.

The category 5 C-Bus network wiring uses a free topology architecture. The maximum length of cable used on a C-Bus network is 1000 metres; however this is easily extended using C-Bus Network Bridges. Up to 100 units can be installed on a C-Bus network and this can also be extended using Network Bridges.

The maximum number of C-Bus networks in one installation is 255 (note that this limitation does not apply if a C-Bus Ethernet Interface is utilised, the system size is then limited to IP Addressing only). The maximum number of networks connected in series to the local network via Network Bridges is seven (i.e. using six network bridges).

Each standard C-Bus unit requires 18mA @ 15-36Vdc to operate, however some C-Bus units require up to 40mA.

More than one C-Bus power supply can be connected to a C-Bus network to provide sufficient power to the C-Bus units, the C-Bus power supplies will share the load evenly.

Each C-Bus network requires a network burden if there are insufficient C-Bus units on the network. This network burden can be enabled on C-Bus output units through software or a hardware burden can be connected to the network.

Each C-Bus network requires at least one system clock generating unit for data synchronisation.

The isolation between the mains supply circuitry and the 36 V DC C-Bus circuitry is greater than 3.5 kV. This is achieved using double wound transformers and opto isolators. This means the C-Bus wiring, connections and circuitry can be considered Extra Low Voltage.

German Technology

Germany is recognized the world over as an innovative microelectronics production and research location. The electronics industry in Germany is also Europe's leading production and sales market.

Germany boasts an unparalleled density of renowned R&D institutes and world-leading manufacturers and suppliers for electrical and electronic materials, components, and equipment across the value chain. These range from microelectronic components to electrical household appliances, automation systems, electronic medical equipment, and automotive electronics. Investment opportunities are many and varied. Plug in and find out why Germany satisfies the essential conditions for market success in one of the world's most dynamic industry sectors.





Sentido®

RELAY ACTUATOR

12R, Relay 12ch 10Amp / ch, DIN-Rail Mount GEN6 with scene controller. Manual Programming Enabled. (Overload Protection) Good for Lighting Control, 50-60Hz. Cascadable, Up gradable Via USB Cable. 2-Way status update if manually overridden at Relay side. Built in Added Motor control Double throw Function and Floor heating manual pairing Function.



Light



Climate

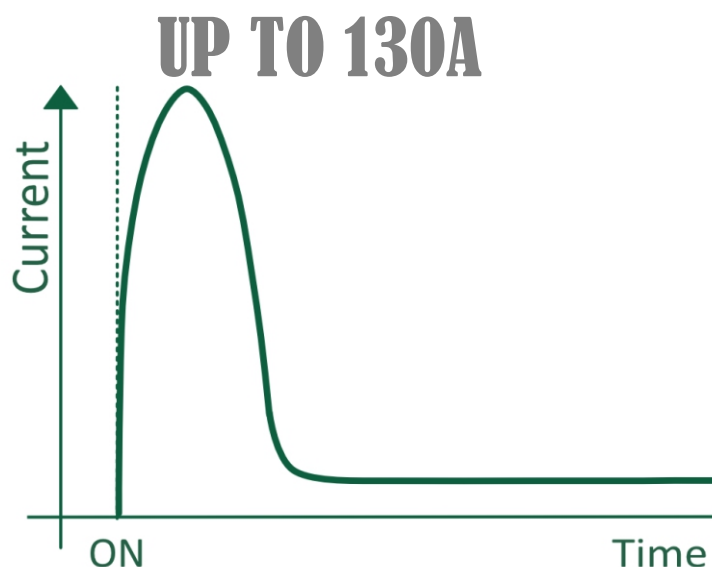


Curtain





Sentido®



SCHRACK RELAYS

Solutions that power electric vehicles, aircraft, digital factories, and smart homes. Innovation that enables life-saving medical care, sustainable communities, efficient utility networks, and the global communications infrastructure. For more than 75 years, we have partnered with customers to produce highly engineered connectivity and sensing products that make a connected world possible. Our focus on reliability and durability, our commitment to progress, and the unmatched range of our product portfolio enables companies large and small to turn ideas into technology that can transform how the world works and lives tomorrow.



**CREATING A SAFER, SUSTAINABLE,
PRODUCTIVE AND CONNECTED FUTURE**



Sentido®

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Tyco Electronics Austria GmbH
Schrackstrasse 1
3830 Waidhofen/Thaya
Austria

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Elektromechanisches Elementarrelais
Electromechanical elementary relay

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 61810-1 (VDE 0435-201):2015-10; EN 61810-1:2015

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of
IEC 61810-1:2015

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

M. Tschötschel

M. Tschötschel

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

VDE

Aktenzeichen: 457000-4940-0028 / 279871

File ref.:

Ausweis-Nr. 40007571

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgebblätter /
Further conditions see overleaf and following pages

Offenbach, 2003-08-28

(letzte Änderung / updated 2020-12-14)

<http://www.vde.com/zertifikat>

<http://www.vde.com/certificate>

Blatt 1
Page





CERTIFICATE OF COMPLIANCE

Certificate Number E214025
Report Reference E214025-19951102
Issue Date 2021-JULY-29

Issued to: Tyco Electronics Austria GmbH
Schrackstrasse 1
Waidhofen an der Thaya 3830 AT

This certificate confirms that
representative samples of

RELAYS, ELECTROMECHANICAL ELEMENTARY -
COMPONENT

See Addendum Page for Product Designation(s)

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:
Additional Information:

See Addendum Page for Standards

See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only
the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified
and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutus/localinfo/>





Certificate of Compliance

Certificate: 1142018

Master Contract: 165850

Project: 80013834

Date Issued: 2019-11-11

Issued To: Tyco Electronics Austria GmbH
Schrackstrasse 1
Waidhofen/Thaya, Lower Austria, NOE, 3830
Austria

Attention: Iris Bozek

Issued by: Jan Holtman
Jan Holtman



PRODUCTS

CLASS - C321104 - INDUSTRIAL CONTROL EQUIPMENT Motor Controllers - Magnetic

CLASS - C321184 - INDUSTRIAL CONTROL EQUIPMENT Motor Controllers - Magnetic - Certified to US Standards

PART A - Relays, magnetic motor controllers, Series RT, followed by 1, 2, 3, B, C, D, H, T or S followed by 1, 3, 5, 7, 8, 9, E or H, followed by C, D, 3, 4, 5, K, T or L, followed by, 003, 004, 005, 006, 009, 010, 012, 015, 017, 018, 020, 022, 024, 028, 030, 034, 036, 048, 052, 060, 080, 110, 506, 512, 524, 548, 560, 600, 615, 620, 700, 720, 730, 740, A03, A05, A06, A09, A12, A15, A17, A18, A20, A22, A24, A34, A36, A48, A52, A60, A80, B10, F03, 3F8, F05, F06, F09, F12, F15, F18, F24, F36 or F48, may be followed by up to four numbers and/or letters.

Derivative Forms: RT9H0001, RT9H0003, RT9H0004, RT9H0006, RT9H0007, RT9H0008, RT9H0010, RT930021, RT930023, RT930024, RT930037, RT930039, RT930041, RT930042, RT930043, RT930044, RT930045, RT930046, RT930056, , RT930065, RT930073, RT930076, RT951000, RT951001, RT95H000, RT9S0008, RT9S0009, RT9S0010, RT9S0014, RT9S0015 may be followed by up to four numbers and/or letters.



Sentido®

CONTROL CLIMATE



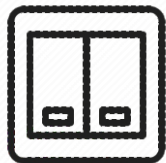
16 A HVAC CONTROLLER

HVAC2, Air Condition Control Module GEN6 This DIN-Rail Mount Device is Great For Control of Standard FCU/AHU/VAV Air conditioning and Ventilation systems, It is Bus Enabled, Manual Programming Enabled. Good for Single and Multi stage Units (Heat, Cool, Single stage/Humidifier/Fresh Air. Fan low, Fan Med, Fan High, VAV 0-10V). With Auxiliary Temperature Sensor Port) = Works stand alone with or without the need to have any Paired DDP. All Contact Relays are Rated 16A.





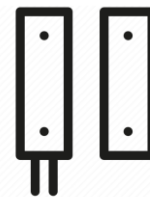
PIR



Normal Switch



Pressure



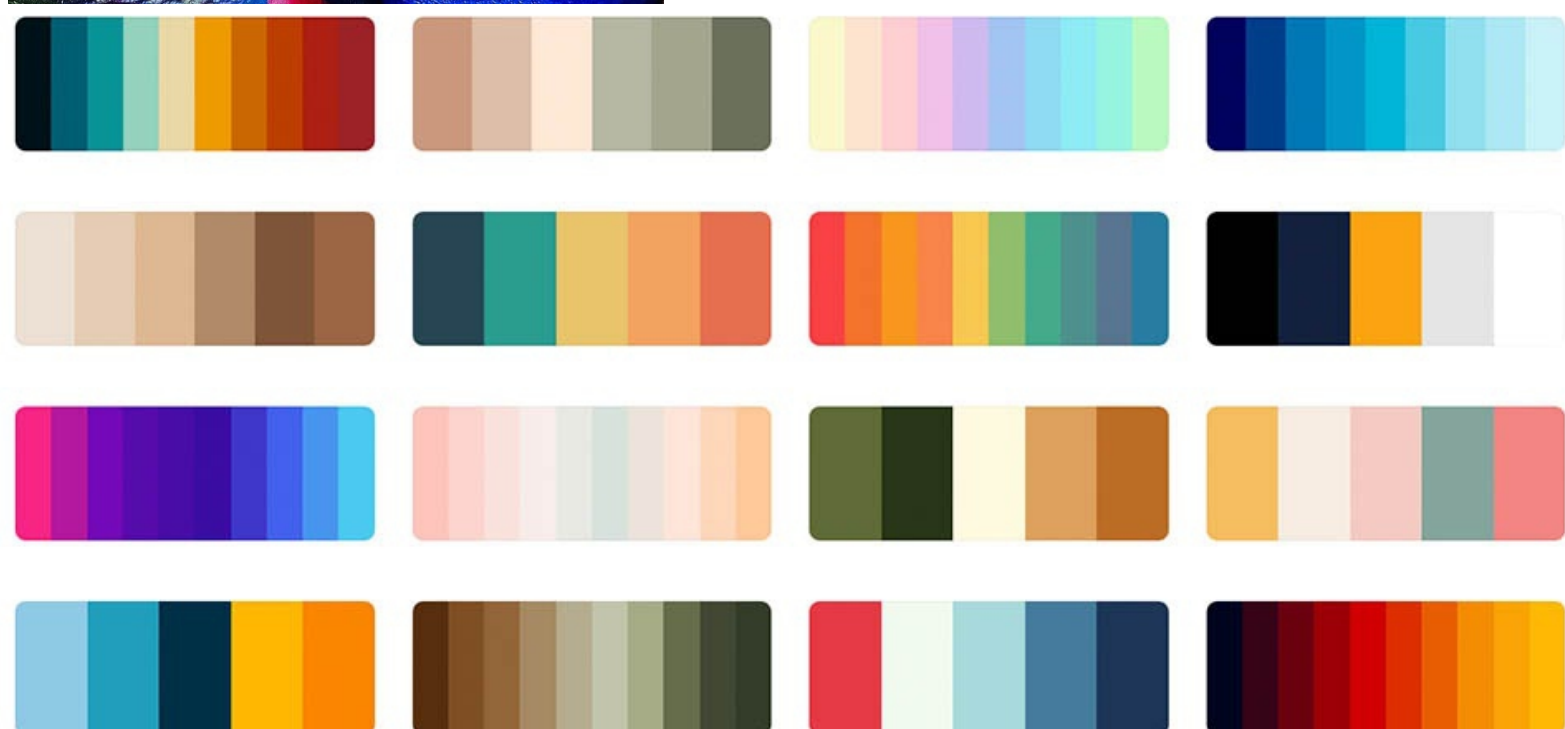
Door Magnet



24-Z Dry Contact Input by Moncef EL Kanet S-BUS Enabled. 24 NO/NC Volt-free Dry Digital Inputs for Automation Security, Safety, Magnetic contact Sensors or for converting Classical Manual Switches into BUS use. Built in Intelligence and delay Functions.



It is the standard digital communication protocol that is used to remotely control intelligent lighting fixtures. Originally created in 1986 the standard has continued to be used and developed as the standardised communication protocol for controlling intelligent lighting fixtures.



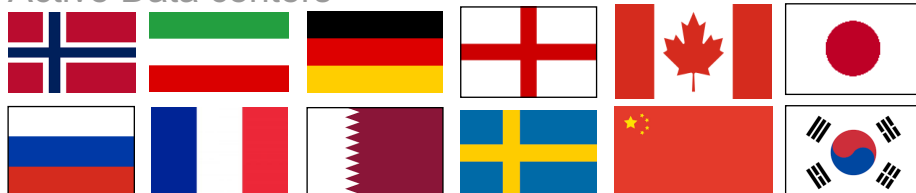


SERVER BY RSIP



Hybrid Integration LinK with IP GEN6 DIN-Rail Mount, with BUS, RS232, 485 & IP/UDP Bridged Converter, can send up to 1980 Strings, & Can receive up to 99 ASCII and/or HEX strings, work in all Baud Rates, 2-way Functionality for integration and status Update. UDP and DDNS.

Active Data centers



SECURITY

Security/Safety Monitoring Module GEN6 CBus Enabled, Capable of Handling 250,000

Addressable Zones. Supports 8 different Divisions (Creating 8 Owner Zones inside Building).

Auto Arming/ Disarming function Enabled, Arming Modes: Away, Day, Night, Night with

Visitor, Vacation schedule and Life dwelling imitation with 9 daily different schedules for

Irrigation, Lighting, HVAC, Pumps ++. And If used with Logic Automatic Module, then all the

following Shall be Enabled: Advanced 15 Lines of Defense functionality Enabled, (Auto

Bypass, restore, Day, Night Zone, Arming Delays, Macros, SMS

Triggering ++), Auto Gas Shut

Off Functionality, Auto HVAC Control In case of Fire ++ Improved

logging, Bypass, and

Watchdog Functionalities



Sentido[®]

BUS TERMINAL







Sentido®



Wifi/BUS IP-Gateway TC Module GEN6 Both DIN-Rail and rail Click Mount, Hybrid: Wifi and sBus Enabled, Good for Connecting any module or multiple modules to the Wifi and internet Network. Smart-BUS G4 Enabled. Built in 24VDC Power Supply 350mA. (Works for Both Wired and Wireless Points as well as Networks). Converts Wired G4 Devices to 2-Way Wireless wifi Devices simultaneously.



DRY CONTACT

4-Zone Dry Input Module GEN6 CBus Enabled, 4 NO/NC Volt-free Dry Digital Inputs for Automation Security, Safety, Magnetic contact Sensors or for converting Classical Manual Switches into BUS use. Built in Intelligence and delay Functions
- Small size can fit behind switch. With Broadcast Enabled, Ready with Firmware USB Upgrade



IR Emitter & 2A Current Sensor (G4) (Can Store up to 255 IR Codes), for HVAC, Media control (Home Electronics). Built in 2A Current Sensor to enable Distinguishing if the Controlled Device is Operational or on StandBy. Broadcast Button Enabled, Bigger Wire screw terminals . Built in Mini USB FW Upgrade Port. The Emitter Can Handle IR Control of up to 8 Home Devices with Probe Cable Distance up to 15 Meters.



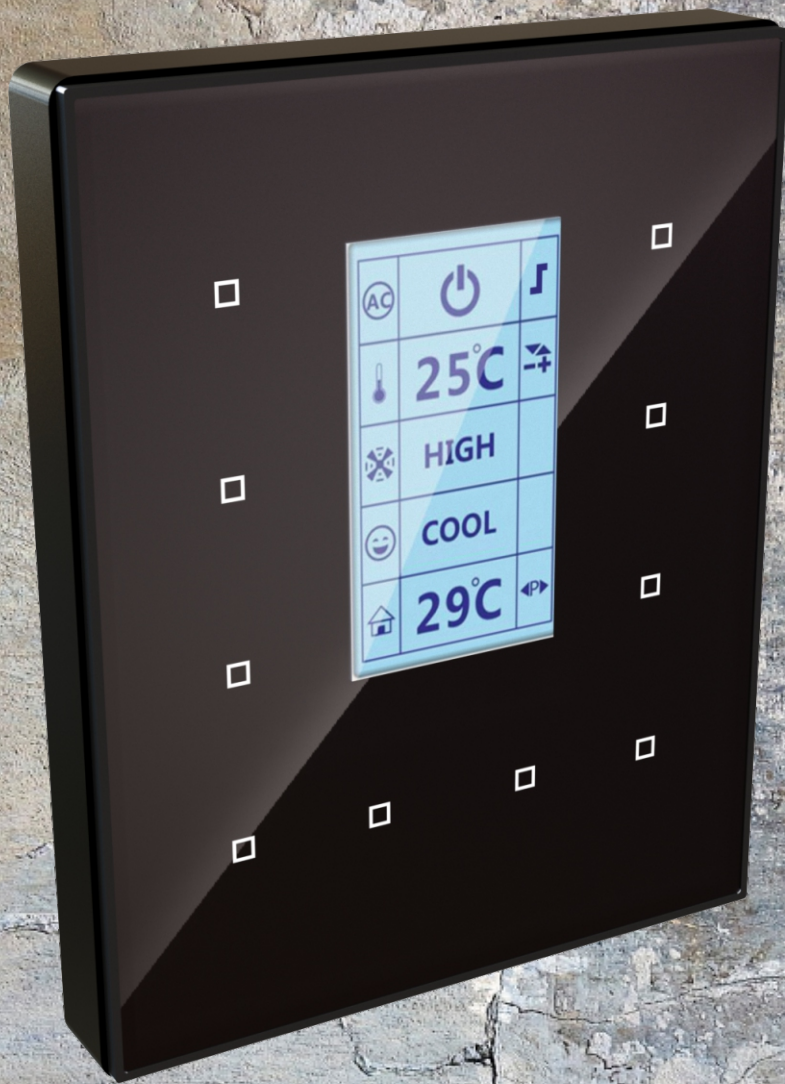
SMART TOUCH SCREEN

"CDP3" Color Smart Dynamic Display Panel

is a wall switch Panel with Color Capacitive Touch Wide View Panel. Multi functions, Built in Thermal

Sensor Couple for Temperature. Easy Graphical Multi Functional Pages: Lighting, Moods, HVAC, Music, Motorized Shades, and more. Advanced, Multi Languages, Energy saver, Slim and elegant





MULTI FUNCTION

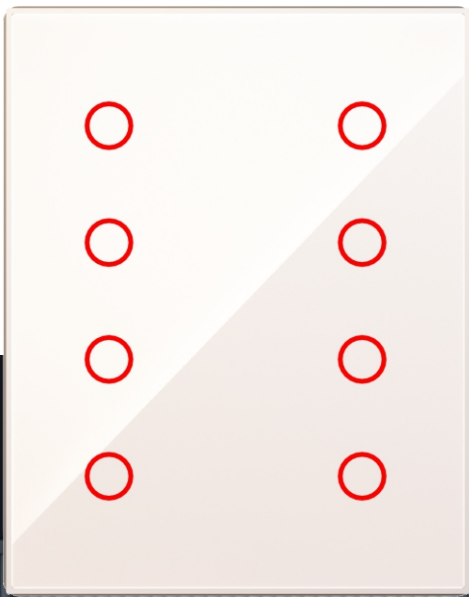
DDP

colors



FX SERIE
4 Gang Smart Switch



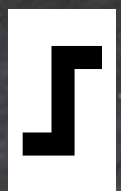


FX SERIE
8 Gang Smart Switch



DYNAMIC DISPLAY TOUCH





MONALISA MODA

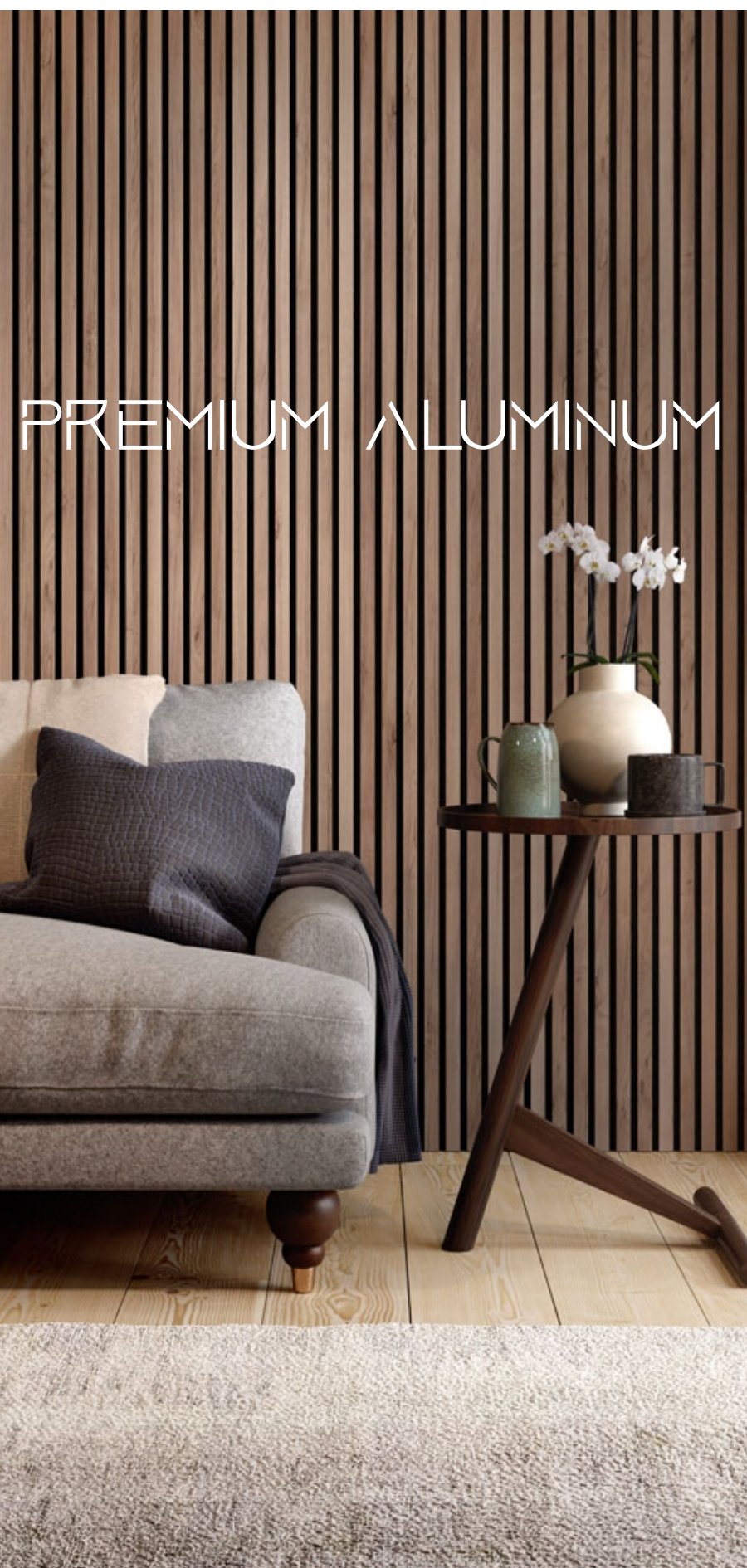


The light switch reinvented

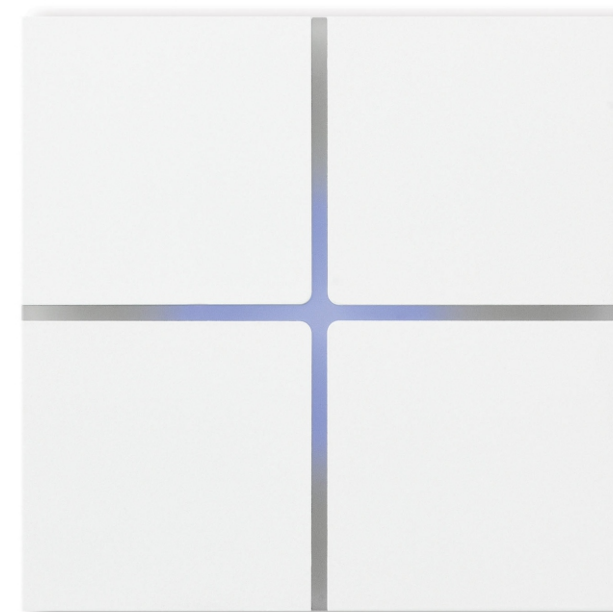
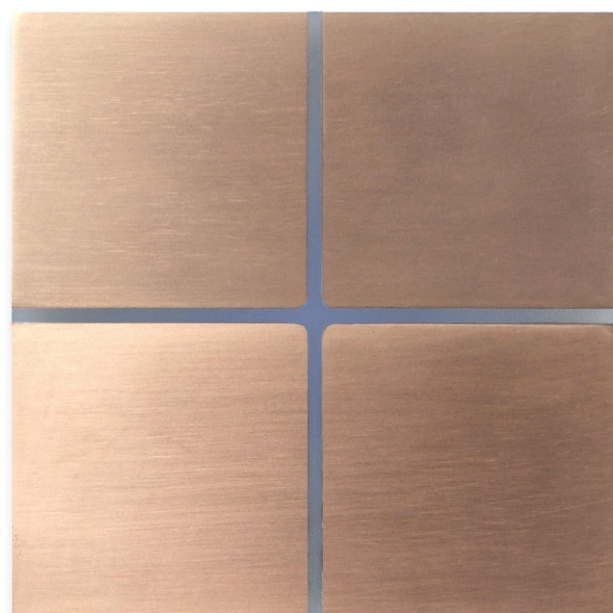
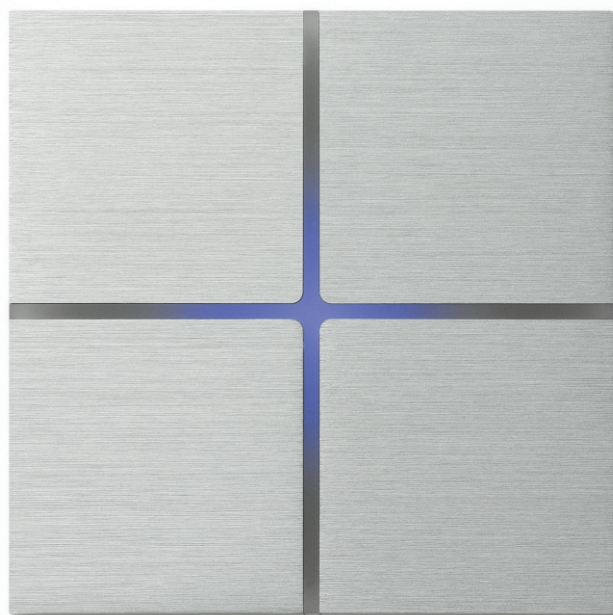
The entire surface of Sentido is touch-sensitive, creating an innovative and unique user experience. Lights, shades and scenes can be operated at the slightest touch. The unique multitouch function lets you easily dim the room into the right scene.

An internal temperature sensor discretely reports the room temperature.

Sentido's minimalist look and the use of high grade materials result in a timeless design



PREMIUM ALUMINUM





SIZED TO FIT

Designed to match any decor and sized to fit both European and American single gang wall boxes.





The entire surface of Sentido is touch-sensitive, creating an innovative and unique user experience. Lights, shades and scenes can be operated at the slightest touch. The unique multitouch function lets you easily dim the room into the right scene. An internal temperature sensor discretely reports the room temperature. The integrated thermostat function does the rest. Sentido's minimalist look and the use of high grade materials result in a timeless design



VOICES/SOPIES



Sentido®



Smart thermostats are thermostats that can be used with home automation and are responsible for controlling a home's heating and/or air conditioning. They perform similar functions as a Programmable thermostat as they allow the user to control the temperature of their home throughout the day using a schedule, but also contain additional features, such as sensors and WiFi connectivity, that improve upon the issues with programmable thermostats. Like a connected thermostat, they are connected to the Internet. They allow users to adjust heating settings from other internet-connected devices, such as a laptop or smartphones. This allows users to control the thermostat remotely. This ease of use is essential for ensuring energy savings: studies have shown that households with programmable thermostats actually have higher energy consumption than those with simple thermostats because residents program them incorrectly or disable them completely. Smart thermostats also record internal/external temperatures, time the HVAC system has been running and can even notify you if your air filter needs to be replaced. This information is typically displayed later on an internet-connected device.



Sentido Smart WiFi control Water/Gas Valve, Compatible with Alexa and Google Assistant, Application program iOS/Android. Adopts WiFi international technology and compatible. Turn off water valve and smartphone notification when detecting water leaks.



Sentido®

With a smart home security system, you harness your home WiFi network so you can monitor and also control a range of security devices in-app from your smart phone. Thanks to the Internet of Things, you can remotely control door locks and lights to streamline your entry and exit using nothing but your phone.



Smart WiFi Switch---This device is an affordable 2.4G WiFi smart light switch that provides users with smart home control. It enables users to remotely control all the connected appliances, via the mobile app “Smart Life”. Perfect for input wide voltage AC 90-250V lamp, ceiling fan, floor light, Christmas tree, outdoor landscape lighting and other appliances.

The meter which is used for measuring the energy utilises by the electric load is known as the energy meter. The energy is the total power consumed and utilised by the load at a particular interval of time. It is used in domestic and industrial AC circuit for measuring the power consumption. The meter is less expensive and accurate.



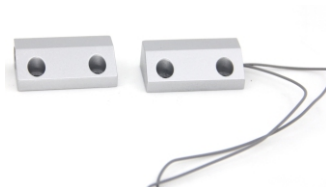
Water Leak



Mini Sensor

- Water Leak Detector
- Analogue

Magnet



Door / Window Magnet

- Neodymium Magnet
- For Wood / Aluminum

Octopus



Presence & Movement Sensor

- Presence Sensor
- Built-In Relay

PIR



Infrared Motion detector

- NO / NC
- Motion Detector

Smoke



Standalone Smoke Sensor

- Analogue Smoke Detector

HEAT



Standalone Gas Sensor

- Analogue Gas Detector

GAS



Standalone GAS Sensor

- Analogue GAS Detector

Surface touch



Smart Surface Touch Sensor

- NO / NC
- Self Calibration Function

People Counter



Mini People Counter Module

- 2 Built - In Relays
- Logic Function

