Hager Dream<br>wiring accessories

## live your Dream

shager

## Milestones of <br> Hager wiring accessories



1919

Berker Brothers began to manufacture the first batch of rotary switches in Schalksmühle. Every detail was as simple, elegant, and functional as all Berker's other subsequent models.


1948

Traditionally, water-proof switches are made of cast resin or ceramics. Therefore, Berker's molded plastics rotary switch is a real innovation. The threads of the rotary switch are pressed into the top of the gland cover and grease cavity seals are installed on the axle. This type of switches features optimal waterproof performance. Its basic design features remained unchanged for decades of years.



1966
Although it seems quite natural today, dating back to 1966, the launch of a switch equipped with a dismountable switch cover that can be backfilled after the completion of the painting engineering indicated a significant innovation and great progress in terms of convenience. Moreover, since the switch cover is easy to change, many of the 1966 rocker switches are still in good keep today and can still work normally.


1980
The combination of circle and square was one of our most successful products in the grim technical environment in the 1980s.


1996
'Twinpoint' design has interchangeable decorative rings, which provides all kinds of design possibilities


1928
Form + Function: When Bauhaus began to carry this concept forward, Berker Brothers have turned to the famous architect Louis Henri Sullivan's design concept. Functional and perfect design combined with reliable technologyBerker's switches already had all the elements that a product needs to become classic. These products later became classic indeed.


1957

The cover of this type of switch is as colorful as any of the modern works of art-That is why this colorful sample is called 'Chagall'.


1972
A big success,
where
modularization is
used, the first type of stainless all-metal switch—Another real innovation.


1983
An expert to deal with difficult tasks: 'ISO-Panzer' has excellent waterproof and shockproof performances excellent waterproof and shockproof performances


1999
TS series can not only assist in creating special lighting effect, but can also combine KNX system for operating the complete smart home system.


2003

Full ranges included system 8000, 9000, 9088 metal ranges for Asia launched.


2008

The greatest feature of TS Crystal Ball is its glittering Swarovski crystal and sensitive optical reflection sensor, very charming.


2009

Touch of style as system 10088 equipped with large rocker and blue LED indication.


2004

Intelligence is a kind of beauty. Undoubtedly, B.IQ looks very beautiful: The first type of smart and fashionable home control unit in the world indicates the arrival of the new era of comfort.



2007
Only by touching... That is the artistic state to start to control a room. Technical progress makes it possible for us to combine minimalism with modern technology and create a new exchange mode. ssible for us to


2011
R. 1 series explains its design of round angle of the excircle in its unique way. It has a soft framework outline and all kinds of functional versions. It is a good choice for all residential and decoration projects.


2020

Hager Dream,
Hager Inspire,
Hager Muse with
best-in-class
aesthetics design,
quality and full
functions to answer
all needs.

2016

Berker Q. 7 not only highlights its form, functions, and craftsmanship, but also lifts architectural individuality and material application to a higher level.



## Dream with ambition

# Frameless design 

The ultra-slim, frameless design allows the switch to be integrated into the wall; the simple and large panel makes the contact easy, and each touch creates the most pleasant moment.

## Hidden LED

Soft and discrete LED light to locate the switch as soon as you enter the room. No need to feel your way in the dark. Guided by the LED light, experience the convenience and safety.

## Multiple choices of color for your switch

Pursue uniqueness and elegance, white, elegant gold, interstellar grey, noble bronze and knight black, the color tone personifies the style and poise.

# Multiple choices of color for the switch ring 

Details are carefully deliberated in the design.
Ultra-slim panel with changeable colored ring is trendy and stylish.


## Expert tips



## 01

Frameless design
The ultrathin and frameless appearance design makes the switch integrate with the wall into an integral whole; the simple but huge rocker makes contact very easy, and each touch creates the most touching moment.


## 04

Noise reduction design
Noise reduction is designed for the large switch panel, which embodies the sound and hand feeling of the products imported from Europe. The design idea from multi-dimensions such as impression, light perception, sense of touch, and phonoreception makes the large rocker perfect.


## 07

Color-changeable switch ring
The switch rings of Dream series can change colors to match the interior decoration as you like, providing more possibilities for the overall design.


## 02

Hidden LED
Soft and distinguishable LED light, you can find where the switch is located as soon as you enter the room, and you needn't feel your way in the dark to get up in the night. Guided by LED light, you will experience convenience and safety.


## 05

U type screwed terminals Capacity of terminal can fit $3 \times 4 \mathrm{~mm}^{2}$ flexible/ rigid wire. However, it is easy to wiring, high efficient for installation.


## 08

IP55 waterproof box
The integrated production makes the waterproof and dustproof functions reach the high waterproof level of IP55. The design of a transparent large space box provides more space for the power cable to turn naturally, realizing real waterproof at power consumption.

## 03

Identification for power
humanized delayed power off is designed, which save power in a smart way. The insert tag switch has LED indicator, which makes it easy for you to find the slot in the dark. After power on, the indicator will turn off automatically.


## 06

Beehive-like support
Beehive structure has the advantages of super-strong intensity and light weight. It is accurately used for the installing support of the product, which makes it more firm, durable, and not deformed over time.


## 09

Safety and stability
The international standard rated current of switch is 16AX, which ensures safer and more stable use of the switch.


## 10

## Shutter

Having safety awareness all the time comes from the care for every family member. The socket panel is designed with child lock. Source isolating safety shutter is installed at the jacks to prevent children from putting their single finger in. It can completely block current.


## 13

USB charger
$4.2 \mathrm{~A}, 5 \mathrm{~V}$ charger is suitable for all kinds of electronic devices ( 1 type C +2 type A). No need for extra charger, can be easily charged via USB cable, it also can be used for charging 3 devices at the same time.


## 16

Ensuring communication quality The network socket ensures communication quality. It is certified by UL lab and ensures high-quality communication.


## 11

Surge protection capability The surge capability of electronic products can reach 2500 V , it is 2.5 times higher than standard.


## 14

Certified by British Nemko The shaver socket is certified by British Nemko. Grade II safety isolating transformer is used, which makes transformation safer and products more durable.


## 17

Eco-packaging
We adhere to environmental philosophy all the time and won international iF design award for the packaging.


## 12

Monobloc rocker \& frame design Rocker and the frame can be taken out by one time only, easy for installation. This is a perfect alignment of rockers all the time.


## 15

Dust-protection Cover Dust-protection cover is supplied for each product. It can be used for protecting the dust during decorating, keeping the product clean.


## 18

Designed by European master Designed by Erwin van Handenhoven, who has won many international awards.

## Hager Dream series

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- Complies with
IEC 60669-1
CB certificate
- 'AX' rated - No need to derate
for fluorescent loads
-10 AX
(100W Self Ballasted Lamp (SBL) )
-16 AX
(200W Self Ballasted Lamp (SBL) )
- Supplied with M3.5 $\times 25 \mathrm{~mm}$
long fixing screws
- Capacity of each terminal:
- Terminal markings denote:
$3 \times 1.5 \mathrm{~mm}^{2}$
$2 \times 4.0 \mathrm{~mm}^{2}$
- Two way switches can be
wired either 1 way or 2 way wired either 1 way or 2 way

L1 = one way
L2 = two way
C = common

- Material: Polycarbonate

|  |  | Description | Pack qty. | Cat. Ref. White | Cat. Ref. <br> Interstellar Grey | Cat. Ref. Noble Bronze | Cat. Ref Knight Black | Cat. Ref Elegant Gold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Large dolly switch 16AX, 1 gang 1 way | 10 | WGDL111 | WGDL111IG | WGDL111NB | WGDL111KB | WGDL111EG |
|  |  | 16AX, 1 gang 2 way | 10 | WGDL112 | WGDL112IG | WGDL112NB | WGDL112KB | WGDL112EG |
| WGDL111 <br> WGDL112 | WGDL121 <br> WGDL122 | 16AX, 2 gang 1 way | 10 | WGDL121 | WGDL121IG | WGDL121NB | WGDL121KB | WGDL121EG |
|  |  | 16AX, 2 gang 2 way | 10 | WGDL122 | WGDL122IG | WGDL122NB | WGDL122KB | WGDL122EG |
|  |  | 16AX, 3 gang 1 way | 10 | WGDL131 | WGDL131IG | WGDL131NB | WGDL131KB | WGDL131EG |
|  |  | 16AX, 3 gang 2 way | 10 | WGDL132 | WGDL132IG | WGDL132NB | WGDL132KB | WGDL132EG |
| WGDL131 <br> WGDL132 | WGDL141 <br> WGDL142 | 16AX, 4 gang 1 way | 10 | WGDL141 | WGDL141IG | WGDL141NB | WGDL141KB | WGDL141EG |
|  |  | 16AX, 4 gang 2 way | 10 | WGDL142 | WGDL142IG | WGDL142NB | WGDL142KB | WGDL142EG |
|  |  | Large dolly switch with LED 16AX, 1 gang 1 way | 10 | WGDL111N | WGDL111NIG | WGDL111NNB | WGDL111NKB | WGDL111NEG |
|  |  | 16AX, 1 gang 2 way | 10 | WGDL112N | WGDL112NIG | WGDL112NNB | WGDL112NKB | WGDL112NEG |
|  |  | 16AX, 2 gang 1 way | 10 | WGDL121N | WGDL121NIG | WGDL121NNB | WGDL121NKB | WGDL121NEG |
|  |  | 16AX, 2 gang 2 way | 10 | WGDL122N | WGDL122NIG | WGDL122NNB | WGDL122NKB | WGDL122NEG |
| WGDL111N <br> WGDL112N | WGDL121N |  |  |  |  |  |  |  |
|  | WGDL122N | 16AX, 3 gang 1 way | 10 | WGDL131N | WGDL131NIG | WGDL131NNB | WGDL131NKB | WGDL131NEG |
|  |  | 16AX, 3 gang 2 way | 10 | WGDL132N | WGDL132NIG | WGDL132NNB | WGDL132NKB | WGDL132NEG |
|  |  | Large dolly switch 10AX, 1 gang, intermediate | 10 | WGDL113 | WGDL113IG | WGDL113NB | WGDL113KB | WGDL113EG |
| WGDL131N <br> WGDL132N |  | 10A, 1 gang, bell switch mark Bell symbol | 10 | WGDL111B | WGDL111BIG | WGDL111BNB | WGDL111BKB | WGDL111BEG |
|  |  | 10A, 1 gang, exit switch mark Exit symbol | 10 | WGDL111E | WGDL111EIG | WGDL111ENB | WGDL111EKB | WGDL111EEG |

WGDL111P
WGDL121P
WGDL131P
WGDL111NP
WGDL121NP WGDL131NP

WGDL111B

Dimmer and fan controller switches


## Hager Dream

Connection unit

| - 25A Connection units | - Fused connection units | - Capacity of each terminal: | - Material: polycarbonate |
| :---: | :---: | :---: | :---: |
| BS 5733 | complies with | 25A |  |
| IEC 60998-1 | BS 1363-4 | $\mathrm{L}, \mathrm{N}, \mathrm{E}: 4 \times 2.5 \mathrm{~mm}^{2}$ or $2 \times 4 \mathrm{~mm}^{2}$ |  |
| IEC 60998-2-1 |  | or $1 \times 6 \mathrm{~mm}^{2}$ |  |
|  | - Supplied with M3.5 $\times 25 \mathrm{~mm}$ | 13A FCU |  |
|  | long fixing screws | $\mathrm{L}, \mathrm{N}: 3 \times 4.0 \mathrm{~mm}^{2}$ |  |
|  |  | E: $2 \times 4.0 \mathrm{~mm}^{2}$ |  |


|  |  | Description | Pack qty. | Cat. Ref. White | Cat. Ref. <br> Interstellar Grey | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref <br> Knight <br> Black | Cat. Ref Elegant Gold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Connection 25A with flex outlet | $12$ | WGDR25 | WGDR25IG | WGDR25NB | WGDR25KB | WGDR25EG |
| WGDR25 |  | Fused connection unit |  |  |  |  |  |  |
| s. | \% | 2A fused $\quad 10$ w/ neon + flex outlet |  | WGDR13N2 | WGDR13N2IG | WGDR13N2NB | WGDR13N2KB | WGDR13N2EG |
|  |  | 5A fused 10 $w /$ neon + flex outlet |  | WGDR13N5 | WGDR13N5IG | WGDR13N5NB | WGDR13N5KB | WGDR13N5EG |
| WGDR13N2 | WGDR13N5 | $\mathrm{w} /$ neon + flex outlet |  |  | WGDR13NIG | WGDR13NNB | WGDR13NKB | WGDR13NEG |
|  |  | fused w/ flex outlet w/ neon |  |  | WGDR13SN2IG | WGDR13SN2NB | WGDR13SN2KB | WGDR13SN2EG |
| WGDR13N | WGDR13SN2 | 5A switched fused w/ flex | $\begin{aligned} & 10 \\ & \text { utlet } \mathrm{w} \end{aligned}$ | WGDR13SN5 / neon | WGDR13SN5IG | WGDR13SN5NB | WGDR13SN5KB | WGDR13SN5EG |
|  |  | 13A switche fused w/ flex | $10$ <br> tlet | WGDR13SN <br> / neon | WGDR13SNIG | WGDR13SNNB | WGDR13SNKB | WGDR13SNEG |
| WGDR13SN5 | WGDR13SN |  |  |  |  |  |  |  |


| - Complies with BS 546 (5A socket) SS 472 (5A socket) IEC 60884-1(10A socket) | - Supplied with M3.5 x 37 mm long fixing screws |  | - Capacity of each terminal: <br> $\mathrm{L}, \mathrm{N}, \mathrm{E}: 3 \times 2.5 \mathrm{~mm} 2$ or $2 \times 4.0 \mathrm{~mm} 2$ |  | - Integral rocker design of switched sockets provides clear red 'on' indication <br> - Material: polycarbonate |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{ll} \text { Description } & \text { Pack } \\ & \text { qty. } \end{array}$ | Cat. Ref. White | Cat. Ref. <br> Interstellar Grey | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref Knight Black | Cat. Ref Elegant Gold |
|  | Socket outlet 10A 2 pin switched universal | WGDS110US | WGDS110USIG | WGDS110USNB | WGDS110USKB | WGDS110USEG |
| WGDS110US WGDS210U | $10 \mathrm{~A} 2 \text { pin }+2 \text { pin } 10$ switched universal | WGDS210U | WGDS210UIG | WGDS210UNB | WGDS210UKB | WGDS210UEG |

## Hager Dream

13A socket outlets

| - Complies with BS 1363-2 SS 145-2 |  | - Supplied with M3.5 $\times 25 \mathrm{~mm}$ long fixing screws <br> - Capacity of each terminal: $\mathrm{L}, \mathrm{N}, \mathrm{E}: 3 \times 2.5 \mathrm{~mm}^{2}$ or $2 \times 4.0 \mathrm{~mm}^{2}$ |  |  | - USB output current 2.4A \& 3.1A (Max) <br> - Integral rocker design of switched sockets provides clear red 'on' indication |  | - Material: Polycarbonate |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Description | Pack qty. | Cat. Ref. White | Cat. Ref. Interstellar Grey | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref Knight Black | Cat. Ref Elegant Gold |
|  |  | 13A single | 10 | WGDS113 | WGDS113IG | WGDS113NB | WGDS113KB | WGDS113EG |
| - - |  | 13A single switched | 10 | WGDS113S | WGDS113SIG | WGDS113SNB | WGDS113SKB | WGDS113SEG |
| WGDS113 | WGDS113S | 13A single DP switched | 10 | WGDS113SDP | WGDS113SDPIG | WGDS113SDPNB | WGDS113SDPKB | WGDS113SDPEG |
|  |  | 13A single switched 1 x USB charge |  | WGDS113S1USB | WGDS113S1USBIG | WGDS113S1USBNB | WGDS113S1USBKB | WGDS113S1USBEG |
| WGDS113SDP | WGDS113SUSB | 13A single switched 2 x USB charge | 8 | WGDS113SUSB | WGDS113SUSBIG | WGDS113SUSBNB | WGDS113SUSBKB | WGDS113SUSBEG |
|  |  | 13A twin switched | 10 | WGDS213S | WGDS213SIG | WGDS213SNB | WGDS213SKB | WGDS213SEG |
| WGDS213S |  |  |  |  |  |  |  |  |
|  |  | 13A twin DP switched | 10 | WGDS213SDP | WGDS213SDPIG | WGDS213SDPNB | WGDS213SDPKB | WGDS213SDPEG |
|  |  | 13A twin switched |  | WGDS213SUSB | WGDS213SUSBIG | WGDS213SUSBNB | WGDS213SUSBKB | WGDS213SUSBEG |
| WGDS213SDP |  | 2 x USB chargers |  |  |  |  |  |  |



WGDS213SUSB

Hager Dream


- Supplied with M3.5 x 25 mm long fixing screws



WGDT1RJ5


WGDT2RJRJ5 WGDT2RJRJ6


WGDT1TV

- Material: Polycarbonate

Mat

Hager Dream
Hotel range

| - Complies with | -16 AX | - Supplied with M3.5 $\times 25 \mathrm{~mm}$ | - Material: Polycarbonate |
| :--- | :--- | :--- | :--- |
| IEC 60669-1 | (200W Self Ballasted Lamp (SBL) ) | long fixing screws |  |
| IEC 60669-2-1 |  |  |  |
| IEC 62368-1 (USB) |  |  |  |


|  |  |  | Description | Pack qty. | Cat. Ref. White | Cat. Ref. <br> Interstellar Grey | Cat. Ref. Noble Bronze | Cat. Ref Knight Black | Cat. Ref Elegant Gold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| b a | 16 | $\square$ | 16AX DND \& MUR with LED (Indoor) | 8 | WGDHDC | WGDHDCIG | WGDHDCNB | WGDHDCKB | WGDHDCEG |
| WGDHDC | WGDHBD |  | 4A DND \& MUR indicator w/ bell switch | 10 | WGDHBD | WGDHBDIG | WGDHBDNB | WGDHBDKB | WGDHBDEG |
|  |  |  | 16A key tag mechanical | 6 | WGDHKTM | WGDHKTMIG | WGDHKTMNB | WGDHKTMKB | WGDHKTMEG |
| WGDHKTM WGDHKTRFID |  |  | 16A <br> key tag RFID | 6 | WGDHKTRFID | WGDHKTRFIDIG | WGDHKTRFIDNB | WGDHKTRFIDKB | WGDHKTRFIDEG |



WGDS3USB


WGDHSL


WGDHRCASV


WGDEE1

WGDHSR

HDMI+VGA

|  | 10 | WGDHHIVA | WGDHHIVAIG WGDHHIVANB | WGDHHIVAKB | WGDHHIVAEG |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| RCA+S-Video |  |  |  |  |  |  |
|  | 10 | WGDHRCASV | WGDHRCASVIG | WGDHRCASVNB | WGDHRCASVKB | WGDHRCASVEG |

USB chargers
USB charger 8 WGDS3USB WGDS3USBIG WGDS3USBNB WGDS3USBKB WGDS3USBEG

| Emergency switch |  |  |  |
| :---: | :---: | :---: | :---: |
| 8 | WGDEE1 WGDEE1IG WGDEE1NB |  |  |
| WGDEE1KB |  |  |  |


| Sleeping light |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | 8 | WGDHSL WGDHSLIG WGDHSLNB $\quad$ WGDHSLKB $\quad$ WGDHSLEG |  |


| Shaver socket |  |
| :--- | :--- | :--- |
| $115 / 230 \mathrm{~V}$ |  |
| WGDHSR WGDHSRIG WGDHSRNB WGDHSRKB WGDHREG |  |



WGDBP1


WGDCH2


WGDCH3


WGDCH4


WGDCH5


WA covers
IP55 40 XC9003
single size

XC9003


XC9004
IP55 40 XC9004 twin size

| Description | Pack <br> qty. | Cat. Ref. <br> White | Cat. Ref. <br> Interstellar <br> Grey | Cat. Ref. <br> Noble | Cat. Ref <br> Bnight | Cat. Ref |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  | Black |

Accommodation plate
1 gang 12

WGDVE2
WGDVE2IG
WGDVE2NB
WGDVE2KB
WGDVE2EG
Blank plate
1 gang 20 WGDBP1 WGDBP1IG WGDBP1NB WGDBP1KB WGDBP1EG

| Multi-gang frame <br> 2 gang <br> horizontal | 18 | WGDCH2 | WGDCH2IG | WGDCH2NB | WGDCH2KB | WGDCH2EG |
| :--- | :---: | :--- | :--- | :--- | :--- | :--- |
| 3 gang <br> horizontal | 12 | WGDCH3 | WGDCH3IG | WGDCH3NB | WGDCH3KB | WGDCH3EG |
| 4 gang <br> horizontal | 12 | WGDCH4 | WGDCH4IG | WGDCH4NB | WGDCH4KB | WGDCH4EG |
| 5 gang <br> horizontal | 9 | WGDCH5 | WGDCH5IG | WGDCH5NB | WGDCH5KB | WGDCH5EE |

## Compliance with standards

Regulation 511-01-01 of BS 7671 : Requirements for Electrical Installations, IEE Wiring Regulations Sixteenth Edition is of particular importance to specifiers and installers with respect to product standards.

Regulation 511-01-01 requires every item of equipment to comply with the relevant requirements of the applicable British Standard, or Harmonised Standard appropriate to the intended use of the equipment.

## British Standards (BS)

The BSI (British Standards Institution) was the first national standards body in the world. There are now more than 100 similar organisations which belong to the International Organisation for Standardisation (ISO) and the International Electrotechnical Commission (IEC).

British Standards are drawn up by all those who have a particular interest in the subject i.e. manufacturers, users, research organisations, government departments and consumers. This work is co-ordinated by BSI staff, acting as secretaries to the committees where the work is done. All standards are made available for public comment before they are published.

## Harmonised standards

A Harmonised standard is a European standard formally presented by CENELEC, to the European Commission and published in the commission's official journal. CENELEC is the Comite European de Normalisation Electrotechnique i.e. European Committee for Electrotechnical Standardisation.

BS 7671 part 2 defines a harmonised standard as a standard which has been drawn up by common agreement between national standards bodies notified to the European Commission by all member states and published under national procedures. The UK national standards body is the British Standards Institution. In the UK a harmonised standard will normally be published as a British Standard European Norm i.e. BS EN.

British Standard European Norm (BS EN)
CENELEC European standards are pre-fixed EN (European Norm). Adoption of the European Standard within the EC is mandatory and member countries of CENELEC are obliged to publish them unchanged. In the UK such standards are further endorsed with the additional prefix 'BS', for example BS EN 60669-1 : 1996 is the British Standard European Norm for Switches for household and similar fixed electrical installations.

Whilst a European Standard can be a direct replica of an IEC standard, discussions within CENELEC may result in the formulation of a standard which includes commonly agreed variations and Special National Conditions.

International Electrotechnical Commission (IEC)
Founded in 1906 the International Electrotechnical Commission (IEC) is the world organisation that prepares and publishes international standards for all electrical, electronic and related technologies. The membership consists of 60 participating countries, including all the worlds major trading nations and a growing number of industrialising countries.

Foreign national standards based on IEC standards are permitted to be used by BS 7671. However the specifier must verify that any differences between the foreign standard and the corresponding British Standard or Harmonised Standard does not result in any lesser degree of safety than that afforded by compliance with the British Standard. This assessment would probably need to be made by specialists.

## Conclusion

BS 7671 (IEE Wiring Regulations) recognises equipment which complies with a British Standard or Harmonised Standard appropriate to the intended use of the equipment without the need for further qualification.

Hager products have always been designed and manufactured to a high standard to ensure compliance with the current British or Harmonised Standard. See the table below for further information.

| Product description | BS / IEC number | Description |
| :---: | :---: | :---: |
| Switches | BS EN 60669-1 <br> IEC 60669-1 <br> CB certificate | Switches for household and similar fixed electrical installations |
| Indicators | BS 5733 | General requirements for Electrical Accessories |
| Fused connection unit, cord outlets | BS 5733 | Switches for household and similar fixed electrical installations with particular requirements for timedelay switches (TDS) |
| Dimmers | BS EN 60669-2-3 | Switches for household and similar fixed electrical installations with particular requirements for timedelay switches (TDS) |
| Frames and plates | BS 5733 | Switches for household and similar fixed electrical installations with particular requirements for timedelay switches (TDS) |
| 10/16 Amp Wall switch | BS EN 60669-1 <br> IEC 60669-1 <br> CB certificate | Switches for household and similar fixed electrical installations |
| Dimmer switches | BS EN 60669-2-1 IEC 60669-2-1 | Electronic variable control switches (dimmer switches) for tungsten filament lighting |
| 13 Amp Socket Outlets | $\begin{aligned} & \text { BS 1363-2 } \\ & \text { SS145-2 } \end{aligned}$ | 13A plugs, socket-outlets, adaptors and connection units |
| 15 Amp Switched Socket | BS 546 SS472 MS1577 | Specification. Two-pole and earthing-pin plugs, socket-outlets and socket-outlet adaptors |
| 20 Amp D.P. Switches | BS EN 60669-1 IEC 60669-1 CB certificate | Switches for household and similar fixed electrical installations |
| 13 Amp Fused Connection Unit | BS 1363-4 | Specification for 13A fused connection units switched and unswitched |
| 45 Amp D.P. Switches | BS EN 60669-1 <br> IEC 60669-1 <br> CB certificate | Switches for household and similar fixed electrical installations |
| 45 Amp Cooker Control Unit | BS 4177 | Cooker control units |
| Shaver Socket Outlet | BS EN 61558-2-5 <br> IEC 61558-2-5 | General Requirements Isolating transformers and safety isolating transformers <br> Electromagnetic compatibility, immunity requirements for household CB certificate appliances tools and similar apparatus. |
| 25 Amp/ Amp Flex Outlet Plate | BS 5733 | General Requirements for Electrical Accessories |
| BS Batten | BS EN 61184 IEC 61184 BS EN 60238 IEC 60238 | Home office shield are T2 rated |
| Ceiling rose | BS 67 |  |

Objective of CE marking.
CE marking is a "technical passport" which indicates that a product conforms to all relevant directives which require CE marking, thus enabling the product to travel within the E.U.

A directive is a piece of mandatory European Legislation implemented by regulations in all member countries. Its purpose is to allow free movement of goods that are safe and fit for use into and within the European Union.

CE marking is not a quality mark and it does not indicate that any testing or certification has been carried out.

## The marking.

CE marking is a statement by the manufacturer that the product complies with the essential requirements of all relevant Directives, notably in the area of technical safety and conformity assessment.

CE marking can appear on the product or packaging or
documentation or combination thereof dependant upon which directive it has to comply with.

CE marking is a very specific graphical symbol and must be clearly separated from other marks.


Directives.
It is the responsibility of the manufacturer or his authorised representative who places the product onto the EC market to decide which Directive(s) apply and to ensure the CE marking is affixed by the dates stated in the relevant directive(s)

For the majority of Hager products only one directive is applicable this is referred to as the Low Voltage Directive. Where some products incorporate electronic devices the Low voltage Directive and the Electromagnetic Compatibility Directive are applicable.

The low voltage directive.
EC directives are requirements adopted by the European Council and published in the official journal of the European Communities and are addressed to the member states.

European Council Directive 73/23/EEC with an amendment 93/68/ EEC is known as the Low Voltage Directive.

The low voltage directive has been implemented into UK law by the
" Electrical Equipment (Safety) Regulations 1994" and apply to all electrical / electronic equipment operating at a voltage of $50-1000 \mathrm{~V}$ a.c. or $75-1500 \mathrm{~V}$ d.c.. They do not apply to plugs, socket outlets and adapters which are covered by the Plugs and Sockets (Safety) Regulations 1994.

Relationship between the Electrical Equipment (Safety)
Regulations, Harmonised standards and the IEE Wiring Regulations Sixteenth Edition.

The Electrical Equipment (Safety) Regulations requires electrical equipment to be safe. Electrical equipment which satisfies the safety provisions of Harmonised standards shall be taken to comply with this requirement, unless there are reasonable grounds for suspecting that the equipment does not so comply.

Regulation 511-01-01 of BS 7671 Requirements for Electrical Installations, IEE Wiring Regulations Sixteenth Edition requires every item of equipment to comply with the relevant requirements of the applicable British Standard, or Harmonised Standard appropriate to the intended use of the equipment.

The Ingress Protection (IP) for all low voltage enclosures up to 1000 V a.c. and 1500 V d.c. is defined in identical fashion by the standards EN 60529 -IEC 529 it comprises the letters IP followed by two character numerals:

The first character numeral indicated the degree of protection provided by the enclosure with respect to persons, also to the equipment inside the enclosure.

The first character numeral: protection against solid substances

| IP | Description |  |
| :---: | :---: | :---: |
| 0 |  | Non-protected |
| 1 |  | Protected against solid objects greater than 50 mm |
| 2 |  | Protected against solid objects greater than 12.5 mm |
| 3 |  | Protected against solid objects greater than 2.5 mm |
| 4 |  | Protected against solid objects greater than 1.0 mm |
| 5 |  | Dust-protected |
| 6 |  | Dust-tight |


| IP | Description |  |
| :---: | :---: | :---: |
| 0 | Non-protected |  |
| 1 |  | Protected against dripping water |
| 2 |  | Protected against dripping water when tilted up to $15^{\circ}$ |
| 3 |  | Protected against spraying water |
| 4 |  | Protected against splashing water |
| 5 |  | Protected against water jets |
| 6 |  | Protected against heavy seas |
| 7 |  | Protected against the effect of immersion |
| 8 |  | Protected against submersion |

Additional letter (in option)
Protection of people against access to dangerous parts

|  | Description |
| :--- | :--- |
| A | Protected against access of the back of the hand |
| B | Protected against access of a finger |
| C | Protected against access of a tool $-\varnothing 2.5 \mathrm{~mm}$ |
| D | Protected against access of a tool $-\varnothing 1 \mathrm{~mm}$ |

Additional letter (in option)
Specific information on the product

|  | Description |
| :--- | :--- |
| H | High voltage material |
| M | Movements during water test |
| S | Stationary during water test |
| W | Bad weather |

The second character numeral indicated the degree of protection provided by the enclosure with respect to harmful ingress of water; a third character may be used to indicate mechanical strength. An $x$ signifies that no test has been carried out.

The second character numeral: protection against liquid substances

One way switch


Marked BELL switch


Two way switch


Marked PRESS switch


## Intermediate switch



Fan control


Audio switch


Dimmer switch

1. One way connection
2. Two way connection


Hager Dream
Circuit diagram

Do not disturb and please clean the switch (inside the door) / Do not disturb and please clear the instructions and the doorbell switch (outside the door)


RJ45 Computer module cable diagram EIA/TIA 568B


RJ45 Jack

RJ11 Telephone plug-in module cable diagram


RJ11 Jack pin.
2 Blue/White
3 White/Blue
4 White/Red
5 Red/White

RJ45 Jack pin.
EIA/TIA 568B
1 White/Orange
2 Orange
3 White/Green
4 Blue
5 White/Blue
6 Green
7 White/Brown
8 Brown

EIA/TIA 568A
White/Green
Green
White/Orange
Blue
White/Blue
Orange
White/Brown
Brown

Key card
Direct load


Key card
Connected load through contactor


## Residential application



## Home garden / dining room

Product cataloo ..... QTY200W Infrared sensor switch fire control1
13A single switched socket ..... 2
13A twin socket ..... 2
13A single switched socket $+2 x$ USB chargers ..... 1
16AX 1 gang 1 way switch ..... 1
16AX 2 gang 2 way switch ..... 1
16AX 2 gang 1 way switch ..... 1
RJ11 outlet, 1 mod ..... 1
RJ45 cat6 outlet ..... 1
TV outlet, 1 mod ..... 1
2 gang horizontal frame ..... 2
5 gang horizontal frame ..... 1

## Restaurant / kitchen

Product catalog
QTY
13A single switched socket 8
13A twin socket2

13A single switched socket $+2 \times$ USB chargers ..... 1
16AX 2 gang 2 way switch ..... 1
16AX 2 gang 1 way switch ..... 1
TV outlet, 1 mod ..... 1
3 gang horizontal frame ..... 2


## Bedroom / dressing room / study room

Product catalog
10AX 1 gang intermediate
13A twin socket
13A single switched socket + 2 x USB chargers
16AX 2 gang 1 way switch
RJ11 outlet, 1 mod
RJ45 cat6 outlet
TV outlet, $1 \bmod$
Sleeping light

## Bathroom / balcony

QTY Product catalog
2 16AX 2 gang 1 way switch
2 13A single switched socket
2
1 Blank plate 4
1 WA cover (IP55) 2

## Hotel application

Entrance / Bar counter
Product catalogQTY4A DND \& MUR indicator w/ bell switch1
16A key tag RFID1
16AX 1 gang 1 way LED switch ..... 1
16AX 2 gang 2 way LED switch ..... 1
13A single switched socket3
Bed
Product catalog ..... QTY
16AX 2 gang 1 way w/ LED switch ..... 1
13A single switched socket, 2 x USB chargers ..... 1
13A single switched socket ..... 2
40-500W 2 way dimmer ..... 2
RJ11 outlet, 1 mod ..... 1
RJ45 ca5e outlet ..... 1
Sleeping light ..... 1


## Office application



## Single office

Product catalog
16AX 1 gang 1 way switch
16AX 2 gang 2 way switch
13A single switched socket48
13A single switched socket $+2 x$ USB chargers ..... 8
RJ45 cat6 outlet ..... 16
HDMI+VGA ..... 8
6A Audio switch ..... 8
2 gang horizontal frame ..... 16
3 gang horizontal frame ..... 16
Open area office
Product catalog ..... QTY
16AX 1 gang 1 way switch ..... 6
16AX 3 gang 1 way switch ..... 10
16AX 4 gang 1 way switch ..... 8
13A single switched socket ..... 100
RJ11+RJ45 ca5e outlet ..... 50
6A Audio switch ..... 8
2 gang horizontal frame ..... 6
3 gang horizontal frame ..... 54


## Meeting room

Product catalog
QTY
16AX 1 gang 1 way switch
16AX 2 gang 1 way switch
16AX 3 gang 1 way switch
13A single switched socket
RJ11 outlet
RJ45 ca6 outlet
HDMI+VGA
3 gang horizontal frame
4 gang horizontal frame

## Public area:

reception/ corridor/ pantry/ washroom
Product catalog QTY
Sleeping light
12
13A single switched socket 12
200W Infrared sensor switch fire control 16
WA cover (IP55) 4

## Success cases


#### Abstract

The courage to try to innovate in architectural design; the design of excellence always brings together a lot of ideas; the pursuit of the ultimate detail and the admiration of superior quality. Today, whether in Munich, Berlin and Hamburg, or in Bolzano, Madrid and Seoul, these ideas can be traced in any building in the world. It is no coincidence that Hager switches and systems can be found in all of these places.


## China

Sofitel Shenyang Lido, Shenyang
New World Beijing Hotel, Beijing
Fairmont Beijing, Beijing
Marriott Nanjing South Hotel, Nanjing
Grand Hyatt, Hangzhou
Park Hyatt Ningbo Resort \& Spa, Ningbo
The Peninsula, Shanghai Le Royal Meridien Hotel, Shanghai
Swissôtel Grand Shanghai, Shanghai Mandarin Oriental Pudong, Shanghai
Sofitel Shanghai Sheshan Oriental, Shanghai JW Marriott, Hangzhou
Four Points by Sheraton Bijie, Guizhou Kempinski Hotel,Yinchuan New World Wuhan Hotel $\mathbb{Z}$ Wuhan Mandarin Oriental Hotel Guangzhou Hyatt Place Shenzhen Airport, Shenzhen The Ritz-Carlton, Shenzhen InterContinental, Shenzhen Swissôtel, Foshan

Shangri-La's Sanya Resort \& Spa, Hainan

Hong Kong \& Macau
Sheraton Hotel Tung Chung
Island Shangri-La, Hong Kong
Penta Hotel
Hotel ICON
Royal Plaza Hotel
Ritz Cariton Hotel
Best Western Hotel (Causeway bay \& Tsim Sha Tsui)
Harbour Grand Hong Kong
Hyatt Regency Hotel
Harbourview Horizon Hotel
Royal View Hotel
Grand Lisboa Macau
Studio City Macau
Galaxy Macau

Singapore
Grand Hyatt Hotel
Goodwood Park
Park Regis
Ramada \& Days Hotel Singapore at Zhongshan Park Hotel Fort Canning

## Malaysia

Genting Hotel, Genting Highlands JW Marriott Hotel, Kuala Lumpur
WEIL Hotel Ipoh, Perak
Alila Bangsar Kuala Lumpur, Kuala Lumpur Hilton Garden Inn Puchong, Selangor
Alwaqf Hotel, Kelantan
Kimberley Hotel, Penang
Iconic Hotel, Penang
VE Hotel \& Residence, Bangsar South, Kuala Lumpur

Indonesia
Westin Hotel, Jakarta
Courtyard by Marriott, Bali
Fairfield by Marriott Sunset Road, Bali
The Ritz-Carlton, Bali Resort \& Spa, Bali

## Vietnam

Novotel Nha Trang
Sealink Phan Thiet
Sheraton Da Nang
Radison Blu Cam Ranh
Movenpick Cam Ranh
Melia Cam Ranh
Hanoi Hotel

## India

Taj Palace, Mumbai
Hyatt Place, Hyderabad
Ritz Carlton Pune, Pune
Lemon Tree, 3 hotels (Udaipur, Dehradun, Kolkata) Fairfield Marriott Kolkata, Kolkata

## Europe

Hotel Sacher, Vienna
Hotel Lux Alpinae, St. Anton am Arlberg
Hotel Schloss Elmau, Elmau
Vigilius Mountain Resort, Lana
Hotel Puerta l'America, Madrid
Lloyd Hotel, Amsterdam
Zentrum für Virtuelles
Engineering ZVE, Stuttgart
Herzogin Anna Amalia Bibliothek, Weimar
minimum bulthaup, Berlin
Privathaus, Berlin
Hyatt Regency, Istanbul
Şişli Marriott, Istanbul
Sheraton Ateşehir,Istanbul
Swissôtel, Istanbul
Le Meridien, Istanbul
Hilton, Izmir
Crowne Plaza, Istanbul

## Other Countries

Sedona Hotel, Mandalay, Myanmyar
Four Seasons Hotel, Seychelles
Makati Shangri-La Hotel, Manila



## Hager Dream <br>  <br> 



Hager Silhouette

## GOOD

Australia 2016


Berker R. 1


Berker R. Classic

hagerblu visage


Berker B.IQ


Hager witty


## Hager Design turns technical products into familiar friends.



International designer Erwin van Handenhoven has been working with Hager since 2000 and his designs have repeatedly won international design awards. Erwin became the product design director of Hager Group in 2013, focusing on shaping the future of Hagrer products and brands, making Hager design an international vane.

Before we start designing a new product, we think about the people it is going to serve. Will it assist or entertain, observe or protect, save time or save energy? Ideally, whatever it does, users will feel it is a reliable "friend". We need to know how to connect with people on an emotional level, to ensure that in return they feel connected to our products.

Design links exquisite emotions to great usability and quality. How to illustrate this better then through this new HAGER range? I designed it with special care to become a real trendsetter for good taste. We know that the Asian continent is constantly raising his design sensibility and quality expectations. It is exciting to create in this particular context where tradition and change operate together. This new design range will upgrade the standard of living in a clearly visible way. Hope you enjoy it as much as I do.

# Erwin van Handenhoven 

Corporate Design Director of Hager Group
Hager Group Design Director

Notes

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