Hager Inspire
wiring accessories

## Milestones of Hager wiring accessories



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.
$\qquad$


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.


## 1919




## 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.
 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.


2016

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

2020

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


2009

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



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. rogress make
-

## 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.
 nice profile large rocker provided affordable option.
2013


2018
Dream series, designed by the European designer, Erwin van Handenhoven, a winner of many international awards, bring elegant life experience to customers.




## Creative round design



## Exquisite design

With fine craft, designed precisely, only for the purpos $\epsilon$ of providing abundant wiring space and convenient installation means.


## Delicate chamfering

Good design lies in every detail. Creative and delicate idea brings excellence to our living and working spaces.

## Multicolor options

Many choices to fit your ideas: white, aurora silver, noble bronze, knight black, and elegant gold.



## Consistent in size

In accordance with the highest standard, the switch and socket are consistent in size, offering flexible interchange-ability.


## 13A 3 pin socket with USB charger

The socket is equipped with two 2.4A USB chargers, which intelligently adapt to mobile devices with different power consumptions, ensuring safety and fast charging.

## Multi gang frame

Conjoined switch, socket and data combination, a delight on the wall, convenient and beautiful.



## Customized panels

To meet design requirements, customers can enjoy exclusive customized service, making your switch panels unique.



## Switch equipped with fluorescent indicator

The switch is dotted with rays of light like twinkling stars, waiting quietly for its guests to enter. Responding to your fingertip, it makes the home bright.


## IP55 waterproof cover

Ensuring safety against water and dust ingress when operating in wet and dusty areas.


## Quick installation

The mounting bracket has superior strength and rigidity. It is suitable for all kinds of installation conditions.

## U type screwed terminals

Capacity of terminal can fit $3 \times 4 \mathrm{~mm}^{2}$ flexible/ rigid cable. However, it is easy for wiring and faster for installation.

食

$$
\operatorname{sen}_{0}, \because \therefore \therefore:
$$



## USB charger

4.2A, 5V charger with 1 Type C and 2 Type A port suits most portable electronic devices.
No need for extra charger, with only USB cables.
Up to 3 devices can be charged simultaneously. Easy and convenient to use.


## 16AX reliable and high performance

## Mechanical switch

Rated current: 16AX
Rated Power: 4000W
The load capacity of switch is stronger, for better performance in increasing demanding installation.

## Identification

 for powerDelayed power off is built-in, 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.



## Color

## for every taste

Hager exclusive leads us to feel a better life. How to create a harmonious aesthetic feeling? The "60: 30: 10" golden rule is a visible must in our continual color-matching experiments, and our ultimate customized solutions would turn on your design concept.

We hardly wait to share you the following color-matching ideas of the year:


## Elegant

 CharmExquisite, matt or modern or retro, the combination forms an aura of elegancy and sophistication around you. You would just like to indulge yourself through every touch of the room.


Freshness and Harmony

It works so well with plants. You find peace in this natural aura and you finally have this moment to get refreshed. Every breath you take in this room your eyes are bright.


## Smart Simple

Sparked by the Minimalist arts movement of the 1960s and 70s, and inspired by traditional Japanese design and Zen philosophy, minimalist express the smart simple concept of modernism in an almost puritanical palette. Colors, elements and motifs are kept to a bare minimum, with concealed storage and careful detailing playing their due part.

| Hager Inspire series | Page |
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| Switches | $20-21$ |
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| Success cases |  |

- Complies with IEC 60669-1 CB certificate
- 'AX' rated - No need to derate for fluorescent loads
- Supplied with M3.5 x 37 mm long fixing screws
- Capacity of each terminal:
- Terminal markings denote:

| $3 \times 1.5 \mathrm{~mm}^{2}$ | L 1 | $=$ one way |
| :--- | :--- | :--- |
| $2 \times 2.5 \mathrm{~mm}^{2}$ | L 2 | $=$ two way |
|  | C | $=$ common |

- Two way switches can be wired either 1 way or 2 way

L1 = one way
= two way
= common

- Material: Polycarbonate

| Description | Pack qty. | Cat. Ref. White | Cat. Ref. Aurora Silver | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref Knight Black | Cat. Ref Elegant Gold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |



WGCL111
WGCL112


WGCL131
WGCL132


WGCL141
WGCL142

Large dolly switch
$16 \mathrm{AX}, 1$ gang 1 way
$16 \mathrm{AX}, 1$ gang 2 way
16AX, 2 gang 1 way 10
16AX, 2 gang 2 way 10
16AX, 3 gang 1 way 10
16AX, 3 gang 2 way 10

16AX, 4 gang 1 way 10

16AX, 4 gang 2 way 10

WGCL111 WGCXL111AS WGCXL111NB WGCXL111KB WGCXL111EG WGCL112 WGCXL112AS WGCXL112NB WGCXL112KB WGCXL112EG WGCL121 WGCXL121AS WGCXL121NB WGCXL121KB WGCXL121EG WGCL122 WGCXL122AS WGCXL122NB WGCXL122KB WGCXL122EG WGCL131 WGCXL131AS WGCXL131NB WGCXL131KB WGCXL131EG WGCL132 WGCXL132AS WGCXL132NB WGCXL132KB WGCXL132EG WGCL141 WGCXL141AS WGCXL141NB WGCXL141KB WGCXL141EG WGCL142 WGCXL142AS WGCXL142NB WGCXL142KB WGCXL142EG


WGCL111F WGCL112F


WGCL131F WGCL132F


WGCR111 WGCR112
 WGCR131 WGCR132


WGCL121F WGCL122F


WGCL141F WGCL142F

Large dolly switch with fluorescence

| 16AX, 1 gang 1 way | 10 | WGCL111F | WGCXL111FAS | WGCXL111FNB | WGCXL111FKB | WGCXL111FEG |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16AX, 1 gang 2 way | 10 | WGCL112F | WGCXL112FAS | WGCXL112FNB | WGCXL112FKB | WGCXL112FEG |
| 16AX, 2 gang 1 way | 10 | WGCL121F | WGCXL121FAS | WGCXL121FNB | WGCXL121FKB | WGCXL121FEG |
| 16AX, 2 gang 2 way | 10 | WGCL122F | WGCXL122FAS | WGCXL122FNB | WGCXL122FKB | WGCXL122FEG |
| 16AX, 3 gang 1 way | 10 | WGCL131F | WGCXL131FAS | WGCXL131FNB | WGCXL131FKB | WGCXL131FEG |
| 16AX, 3 gang 2 way | 10 | WGCL132F | WGCXL132FAS | WGCXL132FNB | WGCXL132FKB | WGCXL132FEG |
| 16AX, 4 gang 1 way | 10 | WGCL141F | WGCXL141FAS | WGCXL141FNB | WGCXL141FKB | WGCXL141FEG |
| 16AX, 4 gang 2 way | 10 | WGCL142F | WGCXL142FAS | WGCXL142FNB | WGCXL142FKB | WGCXL142FE |

## Round switch

| 16AX, 1 gang 1 way | 10 | WGCR111 | WGCXR111AS | WGCXR111NB | WGCXR111KB | WGCXR111EG |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 16AX, 1 gang 2 way | 10 | WGCR112 | WGCXR112AS | WGCXR112NB | WGCXR112KB | WGCXR112EG |
| 16AX, 2 gang 1 way | 10 | WGCR121 | WGCXR121AS | WGCXR121NB | WGCXR121KB | WGCXR121EG |
| 16AX, 2 gang 2 way | 10 | WGCR122 | WGCXR122AS | WGCXR122NB | WGCXR122KB | WGCXR122EG |
| 16AX, 3 gang 1 way | 10 | WGCR131 | WGCXR131AS | WGCXR131NB | WGCXR131KB | WGCXR131EG |
| 16AX, 3 gang 2 way | 10 | WGCR132 | WGCXR132AS | WGCXR132NB | WGCXR132KB | WGCXR132EG |

WGCL111E


WGCL131P


WGCR111P

WGCR131P

WGCL141P

WGCR121P


| - Complies with | - Supplied with M3.5 $\times 37 \mathrm{~mm}$ | - Capacity of each terminal: |
| :--- | :---: | :---: |
| IEC 60669-1 | long fixing screws | $3 \times 1.5 \mathrm{~mm}^{2}$ |
| CB certificate |  | $2 \times 2.5 \mathrm{~mm}^{2}$ |


|  |  | Description | Pack qty. | Cat. Ref. White | Cat. Ref. Aurora Sliver | Cat. Ref. <br> Noble Bronze | Cat. Ref Knight Black | Cat. Ref <br> Elegant Gold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Large dolly s 10AX, 1 gang intermediate | witch $10$ | WGCL113 | WGCXL113AS | WGCXL113NB | WGCXL113KB | WGCXL113EG |
| WGCL113 | WGCL111B | 10A, 1 gang bell switch mark bell sym | $10$ <br> bol | WGCL111B | WGCXL111BAS | WGCXL111BNB | WGCXL111BKB | WGCXL111BEG |
| a ${ }^{3}$ |  | 10A, 1 gang press switch mark "EXIT" | 10 | WGCL111E | WGCXL111EAS | WGCXL111ENB | WGCXL111EKB | WGCXL111EEG |

Supplied with M3.5 x 37 mm long fixing screws
$3 \times 1.5 \mathrm{~mm}^{2}$
$2 \times 2.5 \mathrm{~mm}^{2}$

- Material: polycarbonate Elegant Gold 10AX, 1 gang 10 WGCL113 WGCXL113AS WGCXL113NB WGCXL113KB WGCXL113EG 10A, 1 gang 10 WGCL111B WGCXL111BAS WGCXL111BNB WGCXL111BKB WGCXL111BEG 10A, 1 gang 10 WGCL111E WGCXL111EAS WGCXL111ENB WGCXL111EKB WGCXL111EEG press switch mark "EXIT"
10A, 1 gang
10A, 2 gang 10 WGCL121P WGCXL121PAS WGCXL121PNB WGCXL121PKB WGCXL121PEG
10A, 3 gang 10 WGCL131P WGCXL131PAS WGCXL131PNB WGCXL131PKB WGCXL131PEG
10A, 4 gang 10 WGCL141P WGCXL141PAS WGCXL141PNB WGCXL141PKB WGCXL141PEG

| Press round switch |  |  |  |  |  |  |
| :--- | :---: | :--- | :--- | :--- | :--- | :--- | :--- |
| 10A, 1 gang | 10 | WGCR111P | WGCXR111PAS | WGCXR111PNB | WGCXR111PKB | WGCXR111PEG |
| 10A, 2 gang | 10 | WGCR121P | WGCXR121PAS | WGCXR121PNB | WGCXR121PKB | WGCXR121PEG |
| 10A, 3 gang | 10 | WGCR131P | WGCXR131PAS | WGCXR131PNB | WGCXR131PKB | WGCXR131PEG |

## Hager Inspire

Dimmer and fan controller switches

## - Complies with <br> IEC 60669-2-1

- Supplied with M3.5 x 37 mm long fixing screws
- Capacity of each terminal: $3 \times 1.5 \mathrm{~mm}^{2}$
- Material: Polycarbonate

| Description | Pack Cat. Ref. <br> qty. White | Cat. Ref. <br> Aurora <br> Sliver | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref <br> Knight <br> Black | Cat. Ref <br> Elegant <br> Gold |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |



WGCEFR250


## Fan control

 250VA, single 6 WGCEFR250 WGCXEFR250AS WGCXEFR250NB WGCXEFR250KB WGCXEFR250EG Dimmer 40-500W 6 WGCEDR500 WGCXEDR500AS WGCXEDR500NB WGCXEDR500KB WGCXEDR500EG single, 2 way- Complies with IEC 60669-1 CB certificate
- Supplied with M3.5 $\times 37 \mathrm{~mm}$
long fixing screws
- Capacity of each terminal: 20AX
L, N, E: $2 \times 4 \mathrm{~mm}^{2}$

32A, 45A
L, N : $2.5 \mathrm{~mm}^{2} \sim 16 \mathrm{~mm}^{2}$
Ex2: $2.5 \mathrm{~mm}^{2} \sim 16 \mathrm{~mm}^{2}$

|  |  | Description | Pack qty. | Cat. Ref. White | Cat. Ref. Aurora Silver | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref <br> Knight <br> Black | Cat. Ref <br> Elegant <br> Gold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DP switch |  |  |  |  |  |  |
|  |  | 20AX, 1 gang | 10 | WGCL2D1 | WGCXL2D1AS | WGCXL2D1NB | WGCXL2D1KB | WGCXL2D1EG |
|  |  | 20AX, 2 gang | 10 | WGCL2D2 | WGCXL2D2AS | WGCXL2D2NB | WGCXL2D2KB | WGCXL2D2EG |
| WGCL2D1 | WGCL2D2 |  |  |  |  |  |  |  |
|  |  | Remark: Grey reference product - coming soon |  |  |  |  |  |  |



WGCL2D1N WGCL2D12N


WGCR32D1


WGCR45D1

Control switch with LED
32A DP $8 \quad 8 \quad$ WGCR32D1 WGCXR32D1AS WGCXR32D1NB WGCXR32D1KB WGCXR32D1EG

45A DP 8 WGCR45D1 WGCXR45D1AS WGCXR45D1NB WGCXR45D1KB WGCXR45D1EG

Hager Inspire 5A and 10A socket outlets

- Complies with BS 547 (5A sockets) SS 472 (5A sockets) IEC 60884-1 (10A socket)
- Supplied with M3.5 x 37 mm - Capacity of each terminal: long fixing screws

L, N, 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
- Material: Polycarbonate



## Hager Inspire

13A socket outlets

| - Complies with BS 1363-2 SS 145-2 | - Supplied with M3.5 x 37 mm long fixing screws <br> - Capacity of each terminal: L, N, E: $3 \times 2.5 \mathrm{~mm}^{2}$ or $2 \times 4.0 \mathrm{~mm}^{2}$ | - USB output current 2.4A (Max) <br> - Integral rocker design of switched sockets provides clear red 'on' indication |  | - Material: Polycarbonate |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Description Pack Cat. Ref. qty. White | Cat. Ref. Aurora Silver | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref Knight Black | Cat. Ref Elegant Gold |



- Complies with

| BS 546 (15A sockets) | - Supplied with M3.5 $\times 37 \mathrm{~mm}$ | - USB output current | - Material: Polycarbonate |
| :---: | :---: | :---: | :---: |
| SS 472 (15A sockets) | long fixing screws | 2.4A (Max) |  |
| IEC 60884-1 (16A German socket) |  |  |  |
| ket) (Euro-American | - Capacity of each terminal: $\mathrm{L}, \mathrm{N}, \mathrm{E}: 3 \times 2.5 \mathrm{~mm}^{2}$ or | - Integral rocker design of switched sockets provides |  |



Hager Inspire

- Supplied with M3.5 x 37 mm long fixing screws

- Complies with IEC 60669-1
IEC 60669-2-1
IEC 62368-1 (USB)
- Supplied with M3.5 $\times 37 \mathrm{~mm}$
long fixing screws
- Material: Polycarbonate


Hager Inspire


WGCC1SNB
WGCC1S


WGCC1SKB


WGCC1R
WGCC1RKB


WGCC1SEG


Blank plate
1 gang 20 WGCBP1 WGCXBP1AS WGCXBP1NB WGCXBP1KB WGCXBP1EG

| Single frame <br> 2 gang | 25 | WGCC2 | WGCC2AS | WGCC2NB | WGCC2KB | WGCC2EG |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 gang <br> square | 40 | WGCC1S | WGCC1SAS | WGCC1SNB | WGCC1SKB | WGCC1SEG |
| 1 gang <br> round | 40 | WGCC1R | WGCC1RAS | WGCC1RNB | WGCC1RKB | WGCC1REG |

Accomodation plate Inspire/gallery
for European enhanced function
"gallery functions" page 28

| Description | Pack Cat. Ref. <br> qty. White | Cat. Ref. <br> Aurora <br> Silver | Cat. Ref. <br> Noble <br> Bronze | Cat. Ref <br> Knight <br> Black | Cat. Ref <br> Elegant <br> Gold |  |
| :--- | :---: | :--- | :--- | :--- | :--- | :--- |
| Multi-gang frame <br> 2 gang <br> horizontal | 18 | WGCCH2 | WGCCH2AS | WGCCH2NB | WGCCH2KB | WGCCH2EG |
| 2 gang <br> vertical | 18 | WGCCV2 | WGCCV2AS | WGCCV2NB | WGCCV2KB | WGCCV2EG |
| 3 gang <br> horizontal | 12 | WGCCH3 | WGCCH3AS | WGCCH3NB | WGCCH3KB | WGCCH3EG |
| 3 gang <br> vertical | 12 | WGCCV3 | WGCCV3AS | WGCCV3NB | WGCCV3KB | WGCCV3EG |
| 4 gang <br> horizontal | 12 | WGCCH4 | WGCCH4AS | WGCCH4NB | WGCCH4KB | WGCCH4EG |
| 5 Wang <br> horizontal | 9 | WGCCH5 | WGCCH5AS | WGCCH5NB | WGCCH5KB | WGCCH5EG |

14 WGCVE2 WGCVE2AS WGCVE2NB WGCVE2KB WGCVE2EG
14 WGCVE2 WGCVE2AS WGCVE2NB WGCVE2KB WGCVE2EG

WA covers (Transparent)
IP55 40 XC9003
single size
IP55 40 XC9004
twin size

- Complies with IEC NF-EN60669-1
- Capacity of each terminal:

Flexible and rigid till $2.5 \mathrm{~mm}^{2}$

|  | Description | Pack Cat. Ref. qty. | Cat. Ref. RAL9016 | Cat. Ref. RAL9005 | Cat. Ref RAL1013 | Cat. Ref RAL9006 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WXD301N | Shutter/blinds controls$10 \text { AX - } 250 \text { V v- IP2XC }$ |  |  |  |  |  |
|  |  | Mechanism | Rockers | Rockers | Rockers | Rockers |
|  | double 2 wa | switch |  |  |  |  |
|  | double push | $\begin{aligned} & 1 \quad \text { WXF300 } \\ & \text { button } \end{aligned}$ | WXD300B | WXD300N | WXD300D | WXD300T |
|  |  | 1 WXF301 | WXD301B | WXD301N | WXD301D | WXD301T |



WXF051


WXF256


WXF611


WXF616T


| Dimmers 10 AX - 250 V <br> Led compatible <br> 2 modules | Mechanism | Rockers | Rockers | Rockers | Rockers |
| :--- | :--- | :--- | :--- | :--- | :--- |
| rotary dimmers |  |  |  |  |  |
| 1 | WXF062 | WXD062B | WXD062N | WXD062D | WXD062T |
| touch dimmer |  |  |  |  |  |
| 1 | WXF063 | WXD063B | WXD063N | WXD063D | WXD063T |

Automatic Switch IP2XC

| LED compatible |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mechanism | Center plat | Center plat | Center plat | Center plate |
| 3 wires automatic switch |  |  |  |  |  |
| 1 | WXF051 | WXD050B | WXD050N | WXD050D | WXD050T |
| 2 wires automatic switch |  |  |  |  |  |
| 1 | WXF052 | WXD050B | WXD050N | WXD050D | WXD050T |
| Staircase automatic switch |  |  |  |  |  |
| 1 | WXF054 | WXD050B | WXD050N | WXD050D | WXD050T |
| TV Socket |  |  |  |  |  |
| 2 modules | Mechanism | Rockers | Rockers | Rockers | Rockers |
| SMATV Socket | WXF256 | WXD256B | WXD256N | WXD256D | WXD256T |

Emergency Stop
2 modules
With Key

|  | 1 | WXF610 |
| :--- | :--- | :--- |
| Quater turn |  |  |
|  | 1 | WXF611 |

## Key switch

10 A-250 V v
2 modules
RONIS Key n ${ }^{\circ} 601$
2-position-key selector switch.
Key removable in all position
Quater turn
3-position-key selector switch.
Key removable in all position
1 - WXF616B WXF616N WXF616D WXF616T

Quater turn
3-position-key momentary switch with spring return

WXF617B WXF617N WXF617D WXF617T

## 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 <br> with particular requirements for timedelay switches (TDS) |
| Dimmers | BS EN 60669-2-3 | Switches for household and similar fixed electrical installations <br> with particular requirements for timedelay switches (TDS) |
| Frames and plates | BS 5733 | Switches for household and similar fixed electrical installations <br> with particular requirements for timedelay switches (TDS) |
| $10 / 16$ Amp Wall switch- | BS EN 60669-1 <br> IEC 60669-1 <br> CB certificate | SS |
| BS EN 61184 |  |  |
| IEC 61184 |  |  |
| BS EN 60238 |  |  |
| IEC 60238 |  |  |

## 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 50mm |
| 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 | $\square$ <br> 4 <br> Dust-protected |
| 6 | Dust-tight |

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

| 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 | $\square$ Protected against water jets |
| 6 | Protected against heavy seas |
| 7 |  |
| 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 |

## One way switch



## Marked BELL switch



## Intermediate switch



## Two way switch



## Marked PRESS switch



## Audio switch



1. One way connection


## 2. Two way connection



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

RJ45 Jack pin.
EIA/TIA 568B

## EIA/TIA 568A

2 Orange
3 White/Green
4 Blue
5 White/Blue
6 Green
7 White/Brown
8 Brown

White/Green
Green
White/Orange
Blue
White/Blue
Orange
White/Brown Brown

RJ11 Telephone plug-in module cable diagram


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

## Key card

Direct load


Key card
Connected load through contactor


## Residential application



## Home garden / dining room

Product catalog ..... QTY200W Infrared sensor switch fire control
13A single switched socket1
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 catalogQTY
13A single switched socket ..... 8
13A twin socket ..... 2
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 mod
Sleeping light

## Bathroom / balcony

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

## Hotel application

## Entrance / Bar counter

## Product catalog

4A DND \& MUR indicator $w /$ bell switch
16A key tag RFID
16AX 1 gang 1 way LED switch
1
16AX 2 gang 2 way LED switch
1
13A single switched socket

## Bed

| Product catalog | QTY |
| :--- | :---: |
| 16AX 2 gang 1 way w/ LED switch | 1 |
| 13A single switched socket, $2 \times$ 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 |

16AX 2 gang 1 way w/ LED switch
13A single switched socket, 2 x USB chargers140-500W 2 way dimmer2



## Desk

## Product catalog

16AX 2 gang 1 way w/ LED switch
HDMI+VGA
13A single switched socket +2 x USB chargers
13A single switched socket
RJ11 outlet, 1 mod
RJ45 cat6 outlet

## Bathroom

QTY
1
1
1 2

1
1
Product catalog ..... QTY
16AX 2 gang 1 way w/ LED switch ..... 2
Shaver socket ..... 1
Sleeping light ..... 1
SOS emergency switch ..... 1
6W Audio switch ..... 1
13A single switched socket ..... 3
RJ11 outlet, 1 mod ..... 1
WA cover (IP55) ..... 4

## Office application



## Single office

## Product catalog

16AX 1 gang 1 way switch
16AX 2 gang 2 way switch
13A single switched socket
13A single switched socket $+2 \times$ USB chargers
RJ45 cat6 outlet

HDMI+VGA ..... 8

6A Audio switch
2 gang horizontal frame ..... 16
3 gang horizontal frame ..... 1616

## Open area office

QTY
8
16
48
8

Product catalog
16AX 1 gang 1 way switch

QTY6
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
16AX 1 gang 1 way switch
16AX 2 gang 1 way switch
16AX 3 gang 1 way switch244
13A single switched socket ..... 20
RJ11 outlet ..... 2
RJ45 ca6 outlet ..... 12
HDMI+VGA1
3 gang horizontal frame ..... 6gan hor
4 gang horizontal frame ..... 54

## Public area:

reception/ corridor/ pantry/ washroom
Product catalog

QTY

Sleeping light
13A single switched socket 12
200W Infrared sensor switch fire control 16
WA cover (IP55)

# 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.


## Africa

Crystal Cove Hotel, Hurghada, Egypt Somabay, Hurghada, Egypt Hotel Princess, Eilat, Israel Sea Park hotel, Netanya, Israel Mövenpick Resort \& Spa Tala Bay, Aqaba, Jordan Park Inn by Radisson Nairobi Westlands, Nairobi, Kenya
Radisson Blu Nairobi Upper Hill, Nairobi, Kenya Hotel Carlton, Antananarivo, Madagascar La maison des oliviers Hôtel, Marrakech, Morocco Serena - Polana Mar hotel, Maputo, Mozambique Grand Plaza Hotel, Nampula, Mozambique Pemba Express Hotel, Pemba, Mozambique Transcorp Hilton Hotel, Abuja, Nigeria Sheraton Abuja Hotel, Abuja, Nigeria Sheraton Lagos Hotel, Ikeja Lagos, Nigeria Sheraton Hotel, Lagos, Nigeria POD Camps Bay Hotel, Cape Town, South Africa Parrot Hotel, Arusha, Tanzania
Sleep in hotel, Dar es Salaam, Tanzania

## 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 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

## 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

## 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

## 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



Berker R. 1

## (3) (1)


hagerblu visage



Berker B.IQ


Hager witty

## 

reddot design award
winner 2013


Berker R. Classic


Hager Silhouette

## GESIGN

Australia 2016


## 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 Hager 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 its 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 

Hager Group Design Director

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