Hager Muse
wiring accessories

Design for comfort and safety

:hager

Milestones of
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 technology—Berker'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.

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.

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.

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.

2013

stylea with slim and nice profile large rocker provided affordable option.

2018

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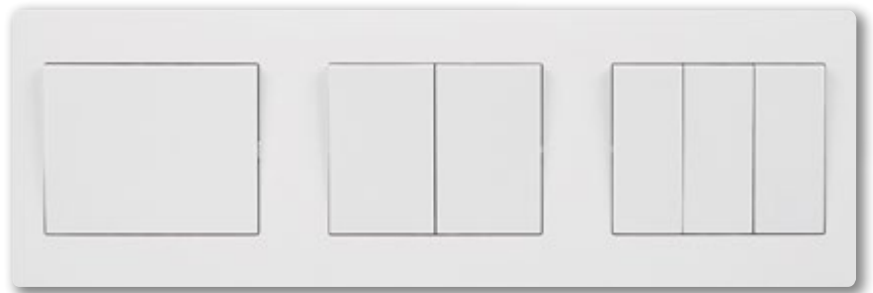
Extra comfortable

Socket with USB charger

The socket equipped with two 2.4A USB chargers, which intelligently adapt to mobile devices with different power consumptions, ensure the charging safety and efficiency.

Multi-gang frame

Conjoined switch combination, convenient and beautiful.

Color options

Pursuing vibrancy and elegance with optional colors, white, aurora silver, knight black, shine the style and good taste.

Beehive-like plate

Beehive structure, praised highly in aviation technology, has the advantages of super-strong intensity and light weight. It is used for support of the switch panel, which makes it firmer and more durable.
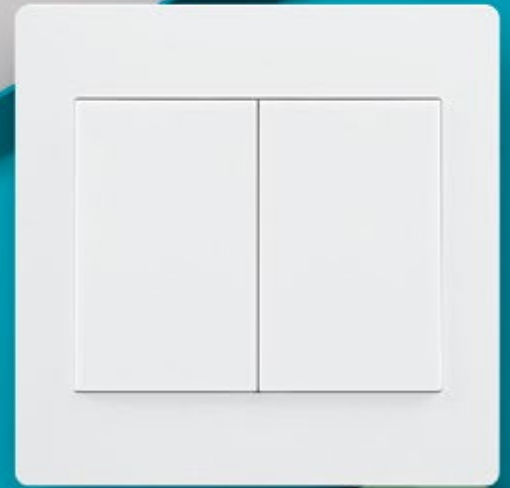
Extra-large wiring capacity

The U-shaped screw terminal can hold three 4mm^2 electrical cables, making wiring work easier and faster.

Extra-thin back mechanism

With fine craft, designed precisely, only for the purpose of providing abundant wiring space and convenient installation means.

Terminal screws are prevented from dropping

We do everything no matter how small it is for pursuit of quality. The screw terminals are designed to provide installers with more practical use, preventing screws from dropping off during installation. We regard it as our ultimate mission to increase efficiency.

Top-of-the-range materials

When a standard becomes well-known, Hager still walks on the highest point of the standard and uses one of the best materials in the world Bayer PC, environment friendly, anti-flaming, and strong texture.

High 16AX rating

The rated current of switch is 16AX, which meets the requirements of using electricity safely in all aspects.

USB protected against surge voltages

Protection against transient surge voltage for the USB circuits is provided at 2500Vac, 2.5 times higher than IEC requirement. USB output maintains at 5Vdc to ensure optimum safety for users and equipment being charged.

Shutter

Having safety awareness all the time comes from the care for family members. The socket panel is designed with child lock, preventing unintended access by young children.

Hager Muse series

Hager Muse series	Page

- 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:
  3 x 1.5 mm²
  2 X 2.5 mm²

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

- Terminal markings denote:
  L1 = one way
  L2 = two way
  C   = common

- Material: Polycarbonate

	Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
	Large dolly switch				
WGML111 WGML112	16AX, 1 gang 1 way	10	**WGML111**	**WGML111AS**	**WGML111KB**
	16AX, 1 gang 2 way	10	**WGML112**	**WGML112AS**	**WGML112KB**
WGML121 WGML122	16AX, 2 gang 1 way	10	**WGML121**	**WGML121AS**	**WGML121KB**
	16AX, 2 gang 2 way	10	**WGML122**	**WGML122AS**	**WGML122KB**
WGML131 WGML132	16AX, 3 gang 1 way	10	**WGML131**	**WGML131AS**	**WGML131KB**
	16AX, 3 gang 2 way	10	**WGML132**	**WGML132AS**	**WGML132KB**
WGML141 WGML142	16AX, 4 gang 1 way	10	**WGML141**	**WGML141AS**	**WGML141KB**
	16AX, 4 gang 2 way	10	**WGML142**	**WGML142AS**	**WGML142KB**
WGML113	10AX, 1 gang intermediate	10	**WGML113**	**WGML113AS**	**WGML113KB**
WGML111B	10A, 1 gang bell switch mark bell symbol	10	**WGML111B**	**WGML111BAS**	**WGML111BKB**
WGML111E	10A, 1 gang press switch mark "EXIT"	10	**WGML111E**	**WGML111EAS**	**WGML111EKB**
	Press switch				
WGML111P WGML121P	10A, 1 gang	10	**WGML111P**	**WGML111PAS**	**WGML111PKB**
	10A, 2 gang	10	**WGML121P**	**WGML121PAS**	**WGML121PKB**
WGML131P WGML141P	10A, 3 gang	10	**WGML131P**	**WGML131PAS**	**WGML131PKB**
	10A, 4 gang	10	**WGML141P**	**WGML141PAS**	**WGML141PKB**

Subject to change without prior notice

- Complies with
  IEC 60669-2-1

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

- Capacity of each terminal:
  3 x 1.5 mm²

- Material: Polycarbonate

WGMEFR250

WGMEDR500

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
250VA single fan control	6	**WGMEFR250**	**WGMEFR250AS**	**WGMEFR250KB**
40-500W single dimmer, 2 way	6	**WGMEDR500**	**WGMEDR500AS**	**WGMEDR500KB**

Hager Muse
Double pole control switches

- Complies with
  IEC 60669-1
  CB certificate

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

- Capacity of each terminal:
  20AX
  L, N, E: 2 x 4 mm²

  32A, 45A
  L, N : 2.5 mm² ~ 16 mm²
  E x 2 : 2.5 mm² ~ 16 mm²

- Material: Polycarbonate

WGML2D1

WGML2D2

WGML2D1N
WGML2D12N

WGML2D2N

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
DP switch				
20AX, 1 gang	10	WGML2D1	WGML2D1AS	WGML2D1KB
20AX, 2 gang	10	WGML2D2	WGML2D2AS	WGML2D2KB
20AX, 1 gang with LED	10	**WGML2D1N**	**WGML2D1NAS**	**WGML2D1NKB**
20AX, 2 gang with LED	10	**WGML2D2N**	**WGML2D2NAS**	**WGML2D2NKB**
20AX, 1 gang 2 way with LED	10	**WGML2D12N**	**WGML2D12NAS**	**WGML2D12NKB**

Remark: Grey reference product - coming soon

Special marks	Abbreviation	Special marks	Abbreviation	Special marks	Abbreviation
"AIR CONDITONER"	AC	"HOB"	HB	"WASHER"	WS
"DISH WASHER"	DW	"HOOD"	HD	"WASHING MACHINE"	WM
"DRYER"	DR	"MICROWAVE"	MW	"WATER HEATER"	WH
"FRIDGE"	FR	"OVEN"	OV		

Example: **"WATER HEATER" WH**
20AX 1 gang with LED   **WGML2D1NWH   WGML2D1NASWH   WGML2D1NKBWH**

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
Control switch with LED				
32A with LED	8	**WGMR32D1**	**WGMR32D1AS**	**WGMR32D1KB**
45A with LED	8	**WGMR45D1**	**WGMR45D1AS**	**WGMR45D1KB**

WGMR32D1

WGMR45D1

Hager Muse
Connection unit

:hager

- Complies with
  BS 5733
  IEC 60998-1
  IEC 60998-2-1
  BS 1363-4 (Fused connection units)

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

- Capacity of each terminal:
  25A
  L, N, E: 4 x 2.5mm² or 2 x 4mm²
              or 1 x 6mm²
  45A
  L, N, E: 7 x 2.5mm² or 4 x 4mm²
              or 2 x 6mm²

13A FCU
L, N : 3 x 4.0 mm²
    E : 2 x 4.0 mm²

- Material: polycarbonate

WGMR25

WGMR45

WGMR13

WGMR13N

WGMR13S

WGMR13SN

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
25A with flex outlet	14	WGMR25	WGMR25AS	WGMR25KB
45A with flex outlet	10	WGMR45	WGMR45AS	WGMR45KB
13A fused with flex outlet	10	WGMR13	WGMR13AS	WGMR13KB
13A fused with LED + flex outlet	10	WGMR13N	WGMR13NAS	WGMR13NKB
13A switched fused with flex outlet	10	WGMR13S	WGMR13SAS	WGMR13SKB
13A switched fused with flex outlet, with LED	10	WGMR13SN	WGMR13SNAS	WGMR13SNKB

Remark: Grey reference product - coming soon

Hager Muse
15A and 16A socket outlets

- Complies with
  BS 546 (15A socket)
  SS 472 (15A socket)
  IEC 60884-1
  (German socket)
  (Euro-American socket)
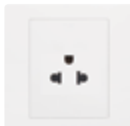
- Supplied with M3.5 x 37 mm
  long fixing screws

- Capacity of each terminal:
  L, N, E : 3 X 2.5 mm² or
              2 X 4.0 mm²

- USB output current
  2.4A (Max)

- Integral rocker design of
  switched sockets provides
  clear red 'on' indication

- Material: Polycarbonate

WGMS115S

WGMS116S

WGMS116EA

WGMS216EA

WGMS116IS

WGMS216IS

WGMS116ISUSB

WGMS216UI

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
15A round pin switched	10	WGMS115S	WGMS115SAS	WGMS115SKB
16A German with shutter	8	WGMS116S	WGMS116SAS	WGMS116SKB
16A single Euro-American	10	WGMS116EA	WGMS116EAAS	WGMS116EAKB
16A twin Euro-American	10	WGMS216EA	WGMS216EAAS	WGMS216EAKB
16A single switched universal	10	WGMS116IS	WGMS116ISAS	WGMS116ISKB
16A twin switched universal	12	WGMS216IS	WGMS216ISAS	WGMS216ISKB
16A single switched universal + 2x USB chargers	8	WGMS116ISUSB	WGMS116ISUSBAS	WGMS116ISUSBKB
16A, 2+3 pin universal	8	WGMS216UI	WGMS216UIAS	WGMS216UIKB

- Complies with
  BS 547 (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: L, N, E : 3 X 2.5 mm² or 2 X 4.0 mm²

- Integral rocker design of switched sockets provides clear red 'on' indication

- Material: Polycarbonate

WGMS105S

WGMS110US

WGMS210U

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
Socket outlet				
5A, round pin switched	10	WGMS105S	WGMS105SAS	WGMS105SKB
10A, 2 pin switched universal	10	WGMS110US	WGMS110USAS	WGMS110USKB
10A, 2 pin + 2 pin universal	10	WGMS210U	WGMS210UAS	WGMS210UKB

Remark: Grey reference product - coming soon

Hager Muse
13A socket outlets

- Complies with
  BS 1363-2
  SS 145-2

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

- Capacity of each terminal: L, N, E : 3 X 2.5 mm² or 2 X 4.0 mm²

- USB output current 2.4A (Max)

- Integral rocker design of switched sockets provides clear red 'on' indication

- Material: Polycarbonate

WGMS113

WGMS113S

WGMS113N

WGMS113SUSB

WGMS113S1USB

WGMS213

WGMS213S

WGMS213N

WGMS213SUSB

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
13A single	10	WGMS113	WGMS113AS	WGMS113KB
13A single switched	10	WGMS113S	WGMS113SAS	WGMS113SKB
13A single switched with LED	10	WGMS113N	WGMS113NAS	WGMS113NKB
13A single switched + 2 x USB charger	8	WGMS113SUSB	WGMS113SUSBAS	WGMS113SUSBKB
13A single switched + 1 x USB charger	8	WGMS113S1USB	WGMS113S1USBAS	WGMS113S1USBKB
13A twin	14	WGMS213	WGMS213AS	WGMS213KB
13A twin switched	14	WGMS213S	WGMS213SAS	WGMS213SKB
13A twin switched with LED	14	WGMS213N	WGMS213NAS	WGMS213NKB
13A twin switched + 2 x USB charger	10	WGMS213SUSB	WGMS213SUSBAS	WGMS213SUSBKB

Remark: Grey reference product - coming soon

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

- Material: Polycarbonate

	Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
WGMT1RJ / WGMT2RJ	**RJ11 outlet** 1 mod	10	WGMT1RJ	WGMT1RJAS	WGMT1RJKB
	2 mod	10	WGMT2RJ	WGMT2RJAS	WGMT2RJKB
WGMT1RJ6 / WGMT1RJ6NM	**RJ45 cat6 outlet** 1 mod	10	WGMT1RJ6	WGMT1RJ6AS	WGMT1RJ6KB
	1 mod without symbol	10	WGMT1RJ6NM	WGMT1RJ6NMAS	WGMT1RJ6NMKB
WGMT2RJ6 / WGMT2RJ6NM	2 mod	10	WGMT2RJ6	WGMT2RJ6AS	WGMT2RJ6KB
	2 mod without symbol	10	WGMT2RJ6NM	WGMT2RJ6NMAS	WGMT2RJ6NMKB
WGMT1RJ5 / WGMT2RJ5	**RJ45 cat5e outlet** 1 mod	10	WGMT1RJ5	WGMT1RJ5AS	WGMT1RJ5KB
	2 mod	10	WGMT2RJ5	WGMT2RJ5AS	WGMT2RJ5KB
WGMT2RJRJ5 WGMT2RJRJ6	**RJ11 + RJ45 cat5e** 2 mod	10	WGMT2RJRJ5	WGMT2RJRJ5AS	WGMT2RJRJ5KB
	RJ11 + RJ45 cat6 2 mod	10	WGMT2RJRJ6	WGMT2RJRJ6AS	WGMT2RJRJ6KB
WGMT1RJ6LP / WGMT1RJ6LPNM	**Plate for RJ45 engine** 1 mod	20	WGMT1RJ6LP	WGMT1RJ6LPAS	WGMT1RJ6LPKB
	1 mod without symbol	20	WGMT1RJ6LPNM	WGMT1RJ6LPNMAS	WGMT1RJ6LPNMKB
WGMT2RJ6LP / WGMT2RJ6LPNM	2 mod	20	WGMT2RJ6LP	WGMT2RJ6LPAS	WGMT2RJ6LPKB
	2 mod without symbol	20	WGMT2RJ6LPNM	WGMT2RJ6LPNMAS	WGMT2RJ6LPNMKB
WGMT2TVRJ5	**TV inlet/outlet + RJ45 cat5e** 2 mod	10	WGMT2TVRJ5	WGMT2TVRJ5AS	WGMT2TVRJ5KB
WGMT1TV / WGMT2TVRJ6	**TV inlet/outlet** 1 mod	10	WGMT1TV	WGMT1TVAS	WGMT1TVKB
	TV inlet/outlet + RJ45 cat6 (DATA marking) 2 mod	10	WGMT2TVRJ6	WGMT2TVRJ6AS	WGMT2TVRJ6KB
WGMT1TVF / WGMT2TVFRJ6	**TV outlet, F type** 1 mod	10	WGMT1TVF	WGMT1TVFAS	WGMT1TVFKB
	TV outlet, F type + RJ45 Cat6 (DATA marking) 2 mod	10	WGMT2TVFRJ6	WGMT2TVFRJ6AS	WGMT2TVFRJ6KB
WGMTSMATV	**SMATV outlet** SAT+TV+FM	30	WGMTSMATV	WGMTSMATVAS	WGMTSMATVKB

Subject to change without prior notice

- Complies with
  IEC 60669-1
  IEC 60669-2-1
  IEC 62368-1 (USB)

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

- Material: Polycarbonate

WGMHDC

WGMEA6

WGMS3USB

WGMHKTM
WGMHKTRFID

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
16AX, DND & MUR with LED (Indoor)	10	**WGMHDC**	**WGMHDCAS**	**WGMHDCKB**
6W Audio switch	6	**WGMEA6**	**WGMEA6AS**	**WGMEA6KB**
USB charger 4.2A (1 type C) + (2 x type A)	8	**WGMS3USB**	**WGMS3USBAS**	**WGMS3USBKB**
16A key tag - mechanical	6	**WGMHKTM**	**WGMHKTMAS**	**WGMHKTMKB**
16A key tag - RFID	6	**WGMHKTRFID**	**WGMHKTRFIDAS**	**WGMHKTRFIDKB**

Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
2 gang, multi-gang, horizontal	18	**WGMCH2**	**WGMCH2AS**	**WGMCH2KB**
3 gang, multi-gang, horizontal	12	**WGMCH3**	**WGMCH3AS**	**WGMCH3KB**
4 gang, multi-gang, horizontal	12	**WGMCH4**	**WGMCH4AS**	**WGMCH4KB**
5 gang, multi-gang, horizontal	12	**WGMCH4**	**WGMCH4AS**	**WGMCH4KB**

WGMCH2

WGMCH3

WGMCH4

WGMCH5

Blank plate				
1 gang	20	**WGMBP1**	**WGMBP1AS**	**WGMBP1KB**
Blank plate (size 2)	10	WGMBP2	WGMBP2AS	WGMBP2KB

Remark: Grey reference product - coming soon

WGMBP1

Single frame				
1 gang frame (vertical) 52 x 65 mm	40	**WGMCV1**	**WGMCV1AS**	**WGMCV1KB**
2 gang frame	40	**WGMC2**	**WGMC2AS**	**WGMC2KB**
1 gang frame (horizontal) 65 x 52 mm	40	**WGMC1**	**WGMC1AS**	**WGMC1KB**
1 gang frame (square) 52 x 52 mm	40	**WGMC1S**	**WGMC1SAS**	**WGMC1SKB**

WGMCV1   WGMC2

WGMC1   WGMC1S

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

XC9003   XC9004

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 IEC 60669-1 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 IEC 60669-1 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	BS 1363- 2 SS145-2	13A plugs, socket-outlets, adaptors and connection units
15 Amp Switched Socket	BS 546 SS472 MS 1577	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 IEC 60669-1 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 IEC 61558-2-5	General Requirements Isolating transformers and safety isolating transformers 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.

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 V a.c. or 75-1500 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
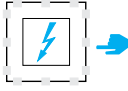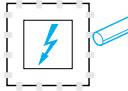
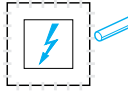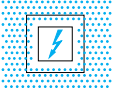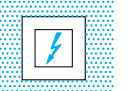**Regulations Sixteenth Edition.**

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.

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 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 605 29 - IEC 529 it comprises the letters IP followed by two character numerals:
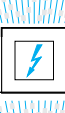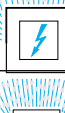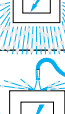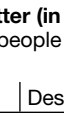
The first character numeral indicated the degree of protection provided by the enclosure with respect to persons, also to the equipment inside the enclosure.

The 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 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 12.5mm
3		Protected against solid objects greater than 2.5mm
4		Protected against solid objects greater than 1.0mm
5		Dust-protected
6		Dust-tight

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°
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

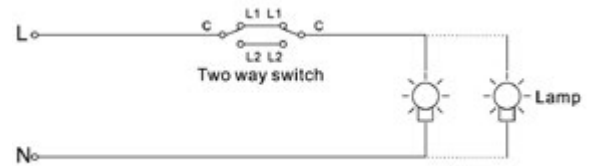|	Description
A	Protected against access of the back of the hand
B	Protected against access of a finger
C	Protected against access of a tool - ø 2.5mm
D	Protected against access of a tool - ø 1mm

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

L○ — C ⟋ L1 —
One way switch
N○ — Lamp

Two way switch

L○ — L1 L1, C ... C, L2 L2 —
Two way switch
N○ — Lamp

Marked BELL switch

L○ — C ⟋ L1 —
Bell switch
N○ — Bell

Marked PRESS switch

L○ — C ⟋ L1 —
Press switch
N○ — Bell
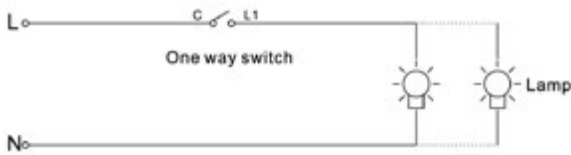
Intermediate switch
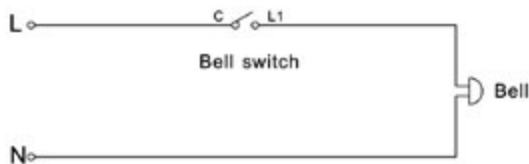
L○ — C, L1 — 1 1 — L1, C —
L2 — 2 2 — L2
two way switch — intermediate switch — two way switch
N○

Fan control

L ○ — L1
N ○ — (M) — ~
Fan

Audio switch

output: + / −
speaker in: − / +
IN
COM
COM
OUT
24V DC
+
−
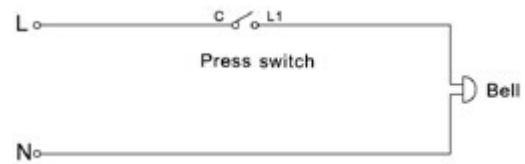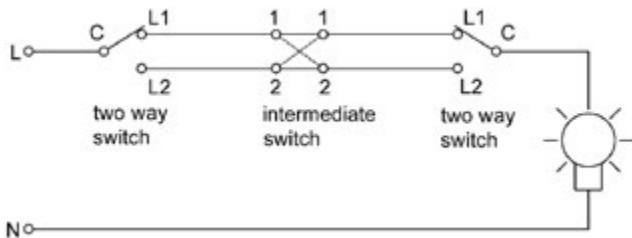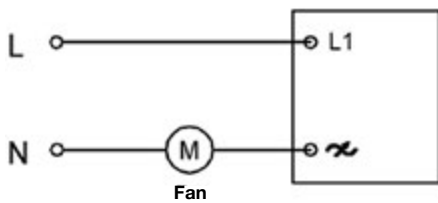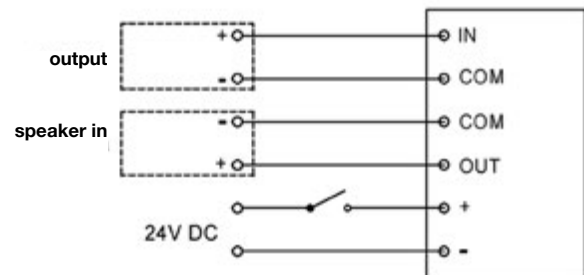
Dimmer switch

1. One way connection

L — L1
L2
N — ⊗ — ~
Lamp
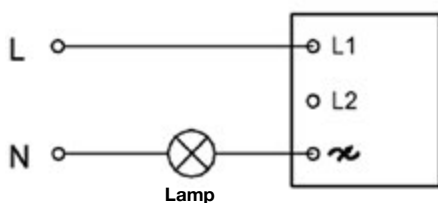
2. Two way connection

L — L1
L2
N — ⊗ — ~
Lamp
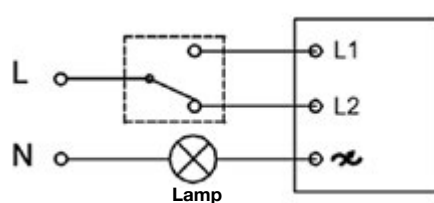
Do not disturb and please clean the switch (inside the door) / Do not disturb and please clear the instructions and the doorbell switch (outside the door)

Do not disturb & please clean the switch
(inside the door)

Do not disturb & clean up the indicator
and door bell switch (outside the door)

L
N

Please clean up

COM   N   COM

230V Bell

L1

L2   N2

L1   L1   L2

L3   N3
L

Please clean up
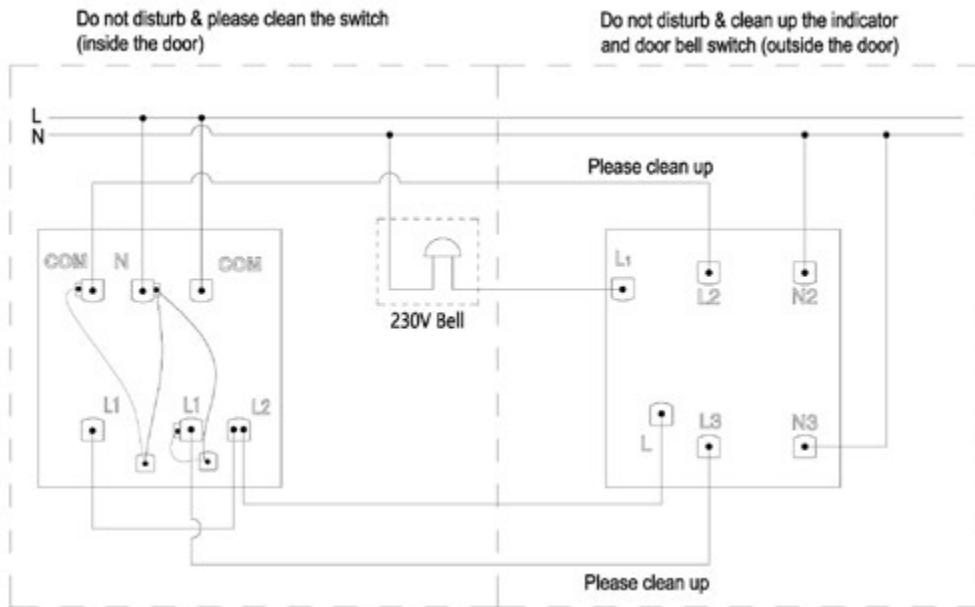
RJ45 Computer module cable diagram EIA/TIA 568B

RJ11 Telephone plug-in module cable diagram

2
1
6
3

8
7
4
5

Incoming
cable

RJ45 Jack

4
5

3
2

Incoming
cable
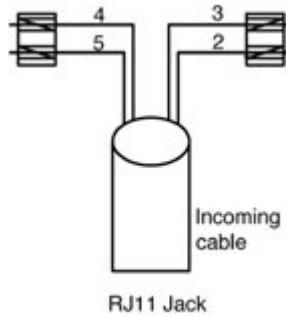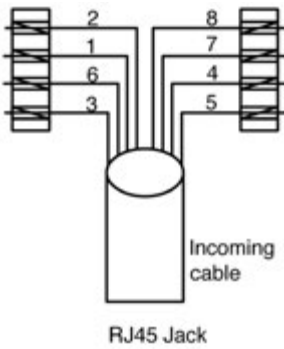
RJ11 Jack

RJ45 Jack pin.
EIA/TIA 568B   EIA/TIA 568A

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

RJ11 Jack pin.

2 Blue/White
3 White/Blue
4 White/Red
5 Red/White

Key card
Direct load

L ○

N ○

○ L

○ N

○ LOAD

Loading
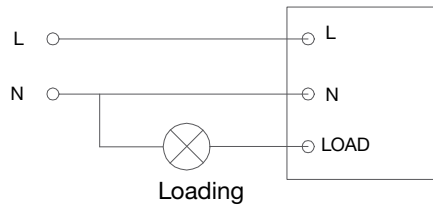
Key card
Connected load through contactor

L3 L2 L1 N

○ L

○ N

○ LOAD

Contactor

L1
L2
L3
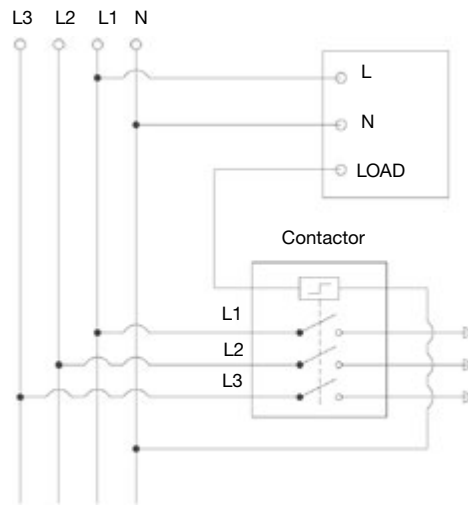
Residential application
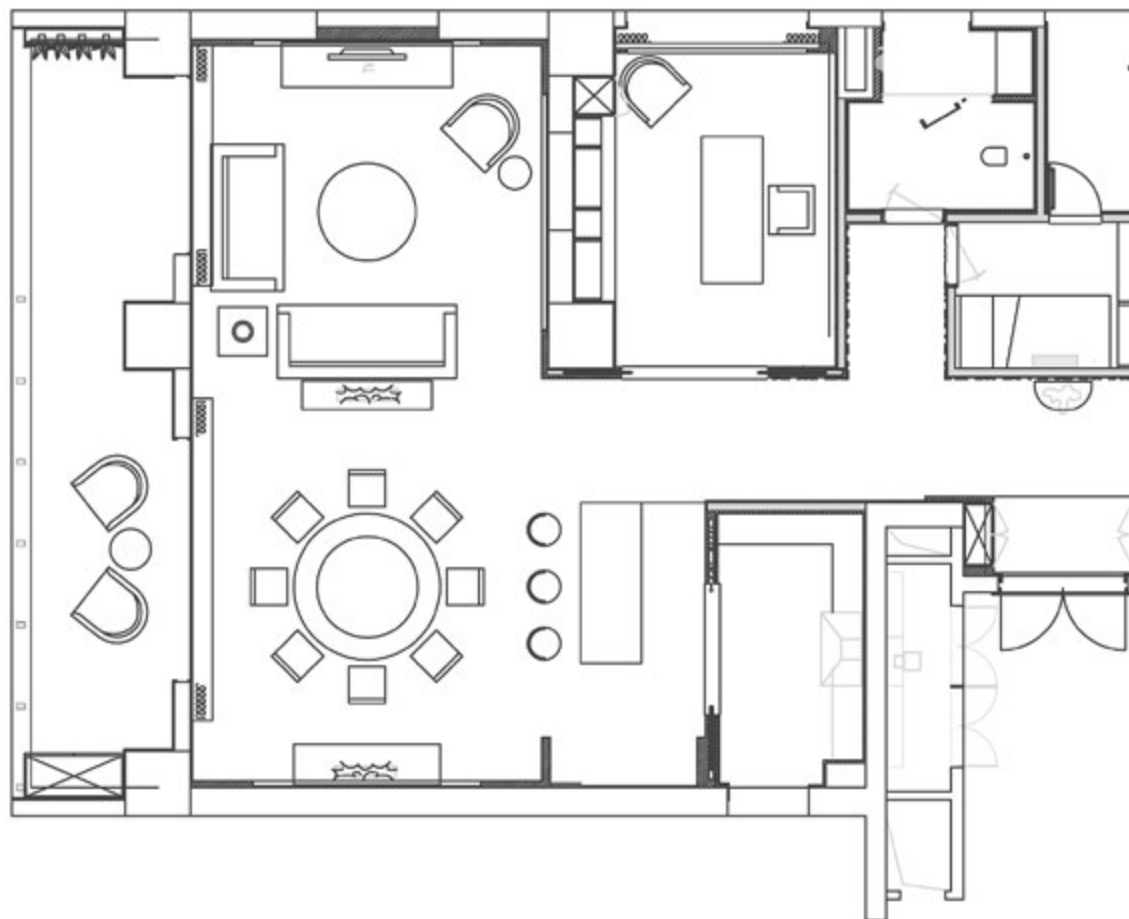
Home garden / dining room

Product catalog	QTY
200W Infrared sensor switch fire control	1
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 socket	2
13A single switched socket + 2 x 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
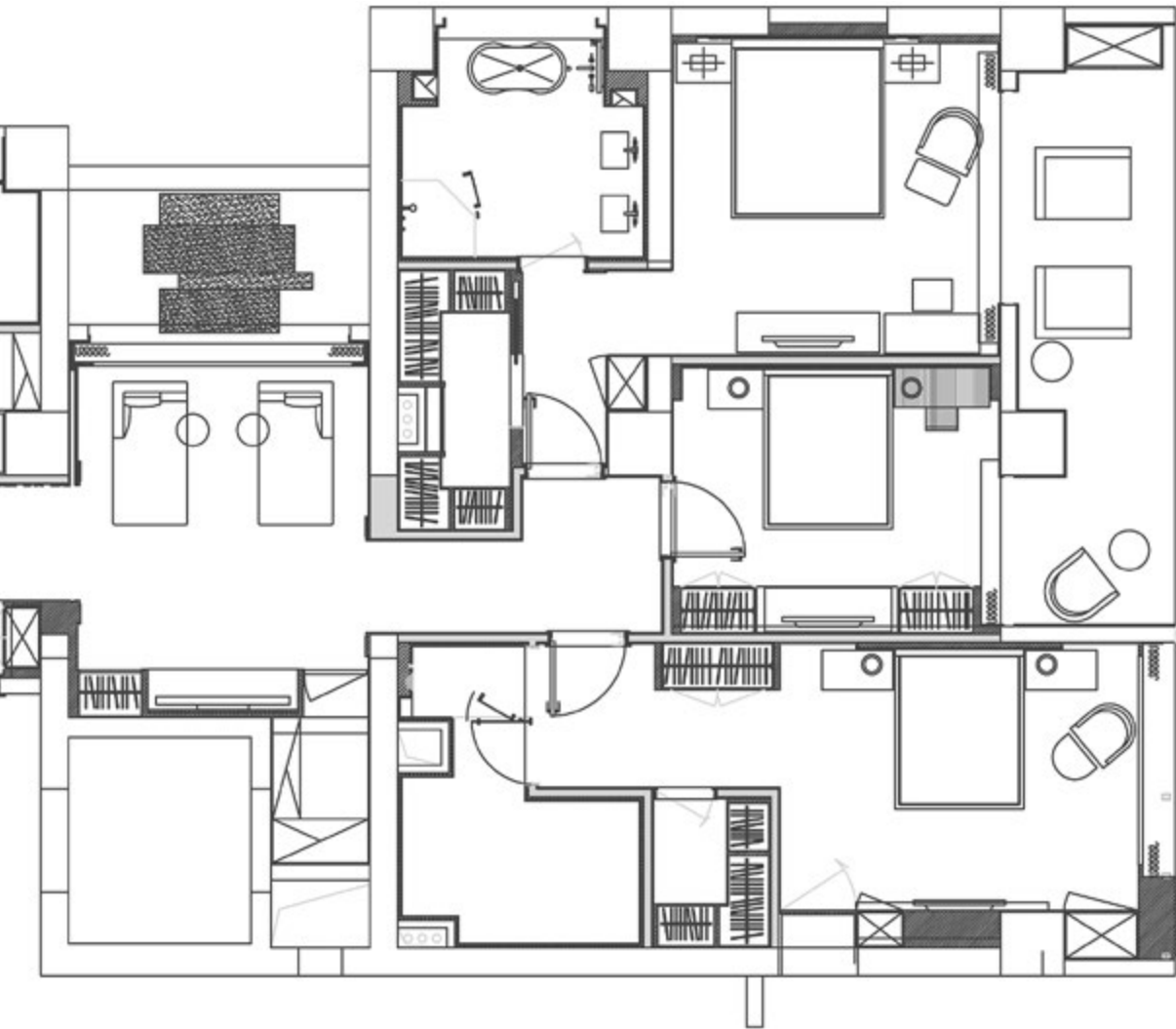
Bedroom / dressing room / study room

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

Bathroom / balcony

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

Hotel application
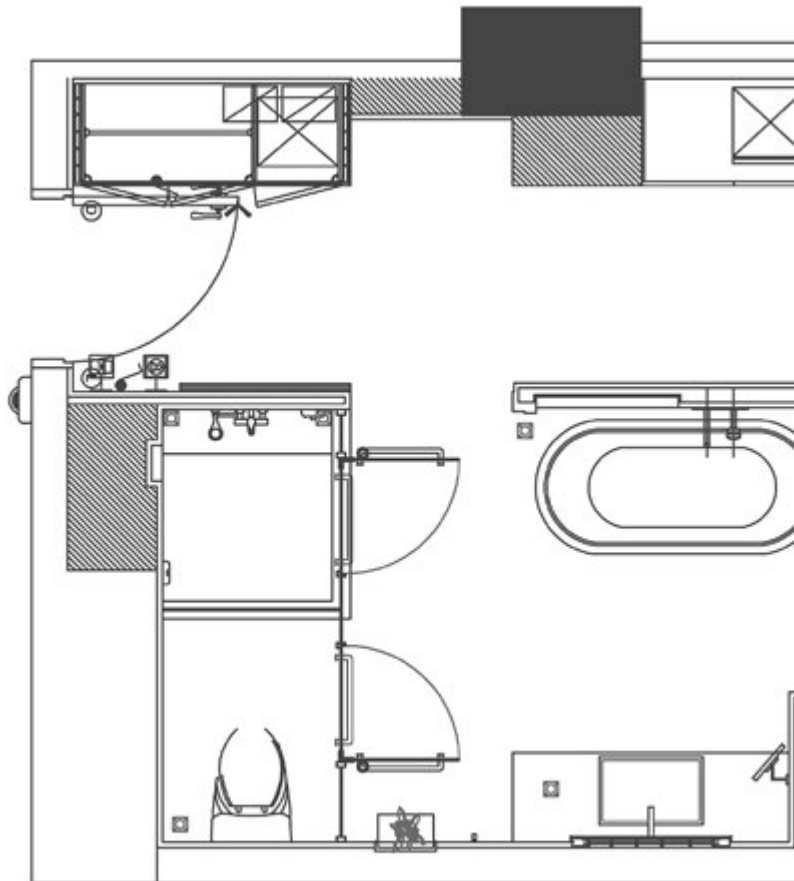
Entrance / Bar counter

Product catalog	QTY
4A DND & MUR indicator w/ bell switch	1
16A key tag RFID	1
16AX 1 gang 1 way LED switch	1
16AX 2 gang 2 way LED switch	1
13A single switched socket	3

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
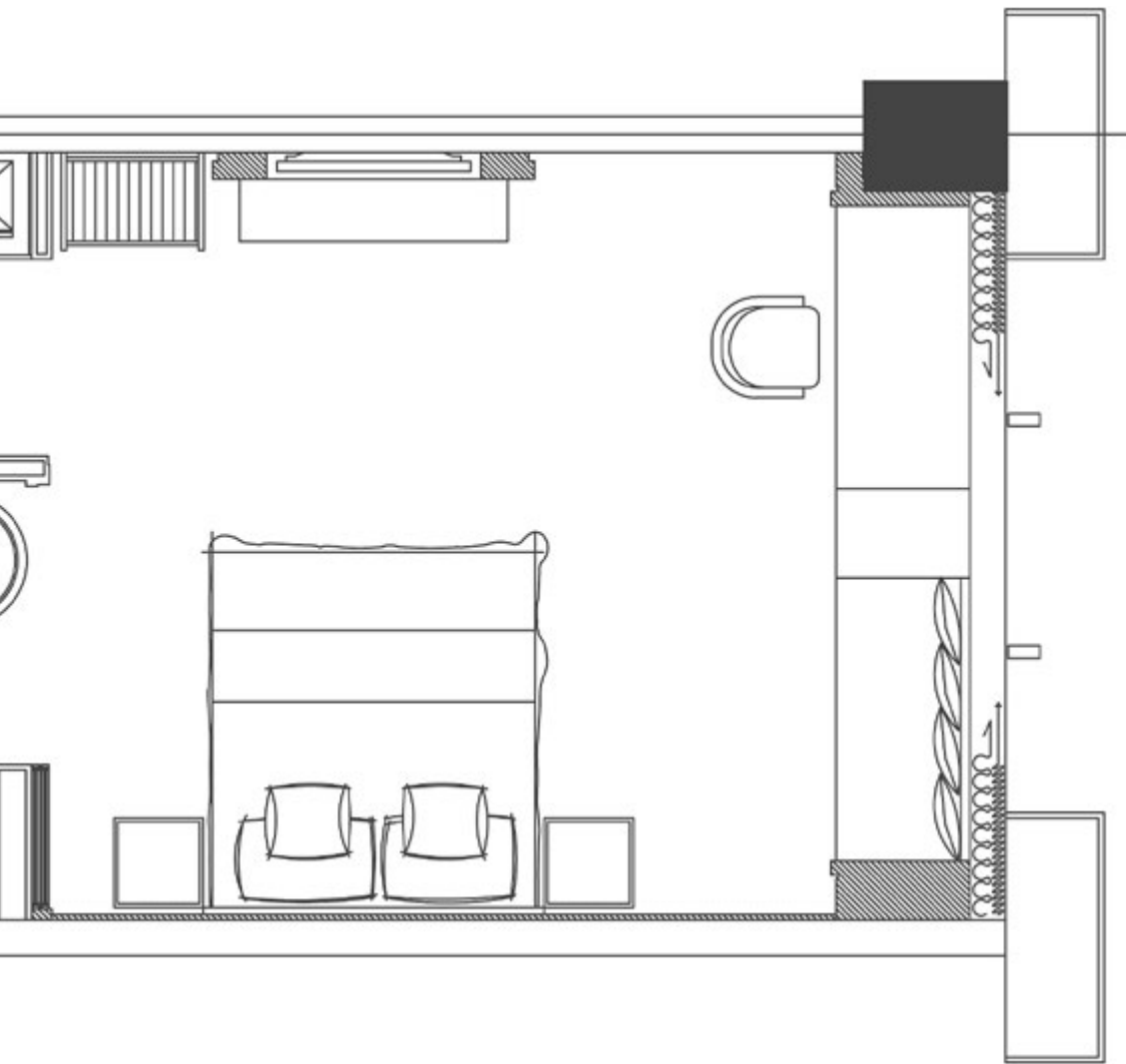
Desk

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

Bathroom

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
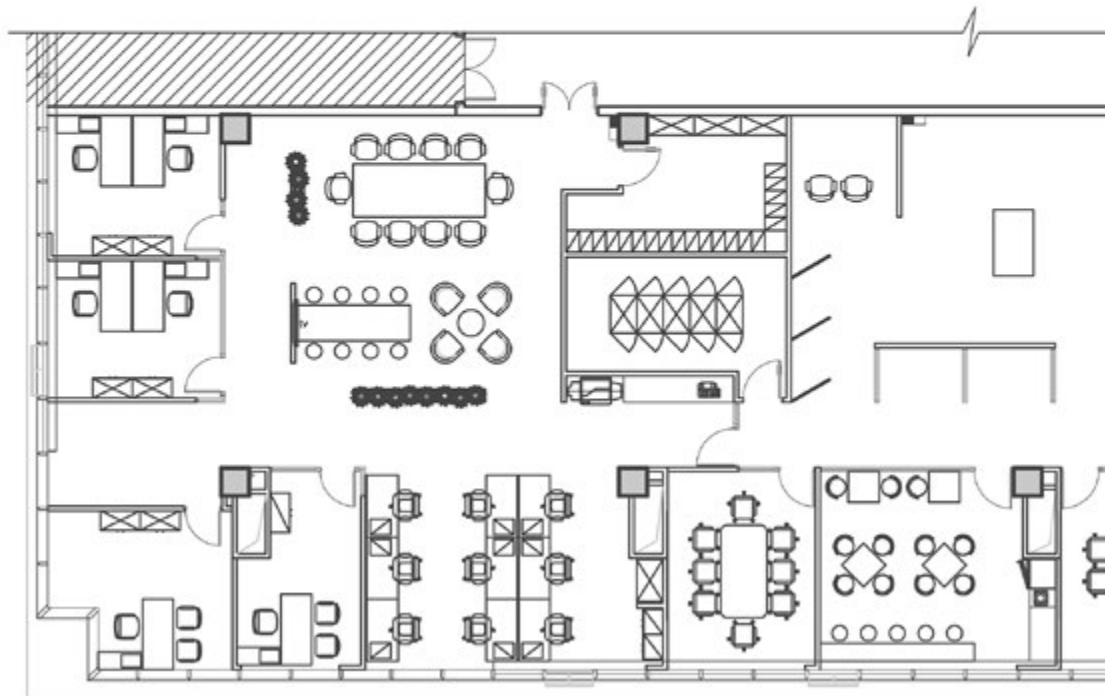
Single office

Product catalog	QTY
16AX 1 gang 1 way switch	8
16AX 2 gang 2 way switch	16
13A single switched socket	48
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
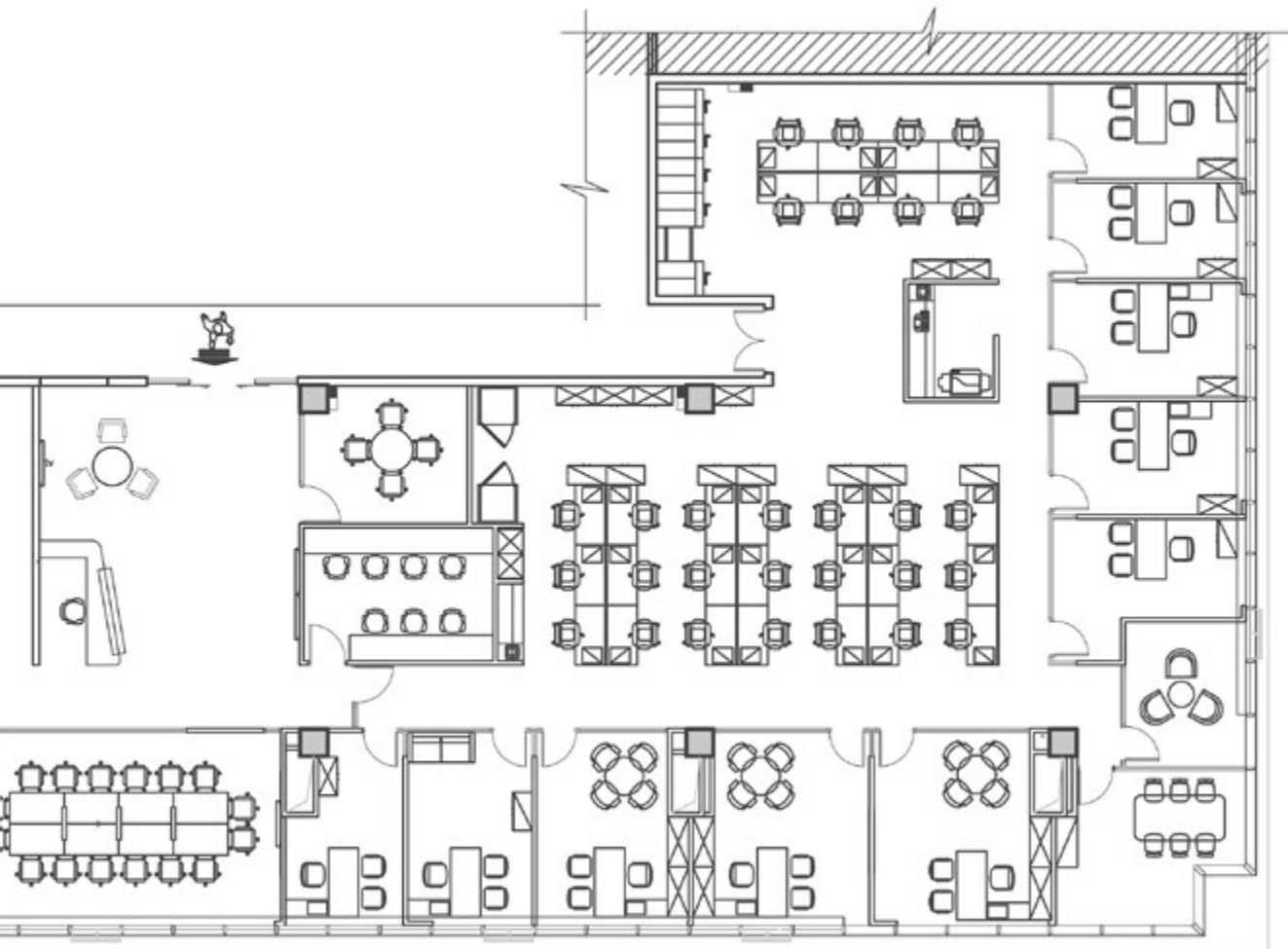
Meeting room

Product catalog	QTY
16AX 1 gang 1 way switch	2
16AX 2 gang 1 way switch	4
16AX 3 gang 1 way switch	4
13A single switched socket	20
RJ11 outlet	2
RJ45 ca6 outlet	12
HDMI+VGA	1
3 gang horizontal frame	6
4 gang horizontal frame	54

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

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

Hager Dream

reddot award 2018 winner

iF DESIGN AWARD 2018

GERMAN DESIGN AWARD WINNER 2018

GOOD DESIGN

Hager Silhouette

GOOD DESIGN AWARDS
Australia 2016

Berker R.1

German Design Award NOMINEE 2013

German Design Award SPECIAL MENTION 2013

iF product design award

GOOD DESIGN 2012 Chicago

reddot design award winner 2013

Berker R. Classic

German Design Award NOMINEE 2013

iF product design award

iF product design award

GOOD DESIGN 2012 Chicago

reddot design award winner 2013

hagerblu visage

GOOD DESIGN AWARDS
Australia 2016

DESIGN MARK

Berker B.IQ

iF design award winner 2004

GOOD DESIGN Chicago

M DESIGN AWARDS MASTERSTÜCK 2004

Designpreis der Bundesrepublik Deutschland Nominiert 2004

reddot design award winner 2013

Hager golf

reddot design award winner 2013

Hager witty

reddot design award winner 2013

JANUS 2013 DE L'INDUSTRIE

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

:hager

20EN_AF_CAT_MUSE