

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'.



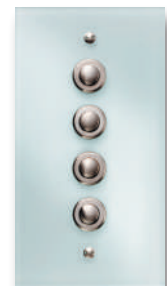
1972

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

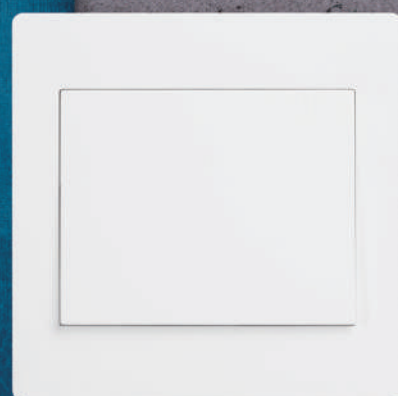
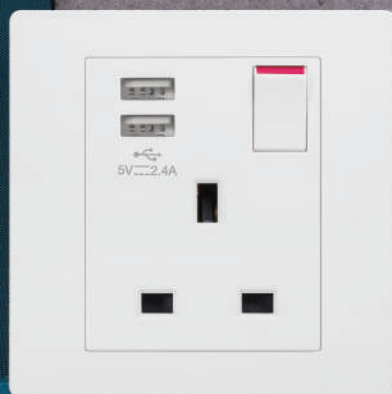
stylea with slim and nice profile large rocker provided affordable option.



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



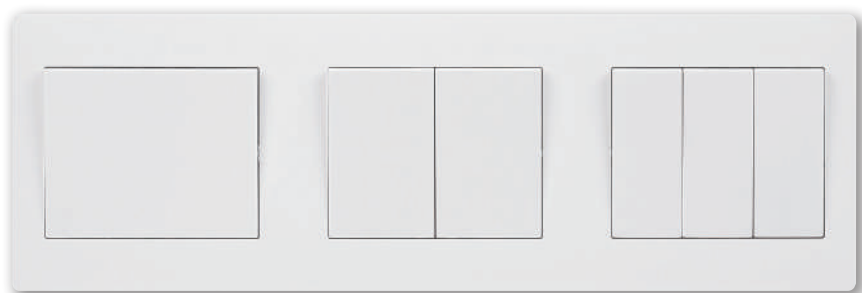


Socket with USB charger

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.

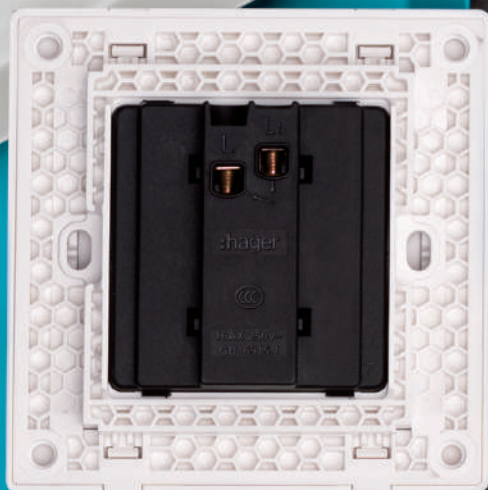
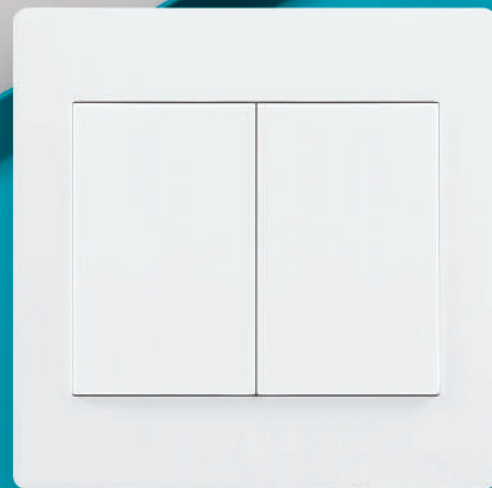


Color options

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 4mm² 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








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

- Complies with IEC 60669-2-1
- Supplied with M3.5 x 37 mm long fixing screws
- Material: Polycarbonate
- Capacity of each terminal:
3 x 1.5 mm²






	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

WGMEFR250 WGMEDR500

Hager Muse Double pole control switches

- Complies with IEC 60669-1 CB certificate
- 20 AX (250W Self Ballasted Lamp (SBL))
- 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

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

Special marks	Abbreviation
"AIR CONDITONER"	AC
"DISH WASHER"	DW
"DRYER"	DR
"FRIDGE"	FR

Special marks	Abbreviation
"HOB"	HB
"HOOD"	HD
"MICROWAVE"	MW
"OVEN"	OV

Special marks	Abbreviation
"WASHER"	WS
"WASHING MACHINE"	WM
"WATER HEATER"	WH

Example: "WATER HEATER" WH
20AX 1 gang with LED

WGML2D1NWH WGML2D1NASWH WGML2D1NKBWH

	
WGMR32D1	WGMR45D1

Control switch with LED				
32A with LED	8	WGMR32D1	WGMR32D1AS	WGMR32D1KB
45A with LED	8	WGMR45D1	WGMR45D1AS	WGMR45D1KB







- 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

	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

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

- Integral rocker design of switched
sockets provides clear red 'on' indication
(for 15A socket)

- Material: Polycarbonate

	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

- Complies with
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



WGMS110US



WGMS210U

Description

Pack
qty.

Cat. Ref.
White

Cat. Ref.
Aurora
Silver

Cat. Ref.
Knight
Black

Socket outlet

10A, 2 pin switched

10

WGMS110US

WGMS110USAS

WGMS110USKB

10A, 2 pin + 2 pin

10

WGMS210U

WGMS210UAS

WGMS210UKB

Hager Muse 13A socket outlets

- Complies with
BS 1363-2
SS 145-2

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

- USB output current
2.4A (Max)

- Material: Polycarbonate

- 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



WGMS113



WGMS113S



WGMS113SN



WGMS113SUSB



WGMS113S1USB



WGMS113SUSBAC



WGMS213



WGMS213S



WGMS213SN



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

WGMS113SN

WGMS113SNAS

WGMS113SNKB

13A single switched + 2 x USB charger

8

WGMS113SUSB

WGMS113SUSBAS

WGMS113SUSBKB

13A single switched + 1 x USB charger

8

WGMS113S1USB

WGMS113S1USBAS

WGMS113S1USBKB

13A single switched + 2 x USB A + C

8

WGMS113SUSBAC

WGMS113SUSBACAS

WGMS113SUSBACKB

13A twin

14

WGMS213

WGMS213AS

WGMS213KB

13A twin switched

14

WGMS213S

WGMS213SAS

WGMS213SKB

13A twin switched with LED

14

WGMS213SN

WGMS213SNAS

WGMS213SNKB

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
						
		RJ11 outlet				
		1 mod	10	WGMT1RJ	WGMT1RJAS	WGMT1RJKB
		2 mod	10	WGMT2RJ	WGMT2RJAS	WGMT2RJKB
		RJ45 cat6 outlet				
		1 mod	10	WGMT1RJ6	WGMT1RJ6AS	WGMT1RJ6KB
		1 mod without symbol	10	WGMT1RJ6NM	WGMT1RJ6NMAS	WGMT1RJ6NMKB
		2 mod	10	WGMT2RJ6	WGMT2RJ6AS	WGMT2RJ6KB
		2 mod without symbol	10	WGMT2RJ6NM	WGMT2RJ6NMAS	WGMT2RJ6NMKB
		RJ45 cat5e outlet				
		1 mod	10	WGMT1RJ5	WGMT1RJ5AS	WGMT1RJ5KB
		2 mod	10	WGMT2RJ5	WGMT2RJ5AS	WGMT2RJ5KB
		RJ11 + RJ45 cat5e	10	WGMT2RJRJ5	WGMT2RJRJ5AS	WGMT2RJRJ5KB
		2 mod				
		RJ11 + RJ45 cat6	10	WGMT2RJRJ6	WGMT2RJRJ6AS	WGMT2RJRJ6KB
		2 mod				
		TV inlet/outlet + RJ45 cat5e	10	WGMT2TVRJ5	WGMT2TVRJ5AS	WGMT2TVRJ5KB
		2 mod				
		TV inlet/outlet	10	WGMT1TV	WGMT1TVAS	WGMT1TVKB
		1 mod				
		TV inlet/outlet	10	WGMT2TVRJ6-SG	WGMT2TVRJ6AS-SG	WGMT2TVRJ6KB-SG
		+ RJ45 cat6 (DATA marking)				
		2 mod				
		TV outlet, F type	10	WGMT1TVF	WGMT1TVFAS	WGMT1TVFKB
		1 mod				
		TV outlet, F type	10	WGMT2TVFRJ6-SG	WGMT2TVFRJ6AS-SG	WGMT2TVFRJ6KB-SG
		+ RJ45 Cat6 (DATA marking)				
		2 mod				










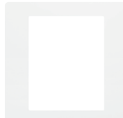
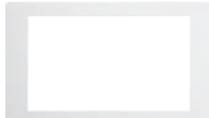




- Complies with
IEC 60669-1
IEC 60669-2-1
IEC 62368-1 (USB)

- 10 AX
(100W Self Ballasted Lamp (SBL))

- 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
	16AX, DND & MUR with LED (Indoor)	10	WGMHDC	WGMHDCAS	WGMHDCKB
WGMHDC					
	6W Audio switch	6	WGMEA6	WGMEA6AS	WGMEA6KB
WGMEA6					
	USB charger 4.2A (1 type C) + (2 x type A)	8	WGMS3USB	WGMS3USBAS	WGMS3USBKB
WGMS3USB					
	16A key tag - mechanical	6	WGMHKTM	WGMHKTMAS	WGMHKTMKB
	16A key tag - RFID	6	WGMHKTRFID	WGMHKTRFIDAS	WGMHKTRFIDKB
WGMHKTM WGMHKTRFID					
	Door chime - electronic	6	WXEDC01	WXEDC01AS	WXEDC01KB
WXEDC01					

		Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
						
 WGMCH2  WGMCH3  WGMCH4  WGMCH5		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
 WGMBP1  WGMVE2		Blank plate 1 gang	20	WGMBP1	WGMBP1AS	WGMBP1KB
		Blank plate (size 2)	10	WGMBP2	WGMBP2AS	WGMBP2KB
		Accomodation plate 2 modules	14	WGMVE2	WGMVE2AS	WGMVE2KB
Remark: Grey reference product - coming soon						
 WGMCV1  WGMC2  WGMC1  WGMC1S		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
 XC9003  XC9004		WA covers (Transparent) IP55 single size	40	XC9003		
		IP55 twin size	40	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 Comité Européen 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 world's 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.



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 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.




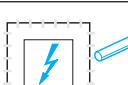
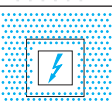
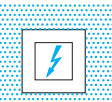
Regulation 511-01-01 of BS 7671 Requirements for Electrical Installations, IEE Wiring Regulations Sixteenth Edition requires every item of equipment to comply with the relevant requirements of the applicable British Standard, or Harmonised Standard appropriate to the intended use of the equipment.

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 first character numeral:


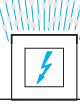

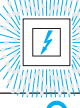




protection against solid substances

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 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°
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

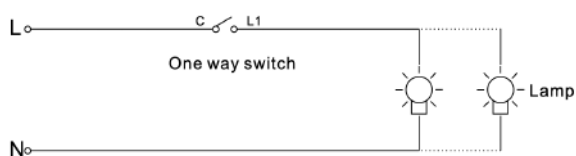
	Description
A	Protected against access of the back of the hand
B	Protected against access of a finger
C	Protected against access of a tool - ø 2.5mm
D	Protected against access of a tool - ø 1mm

Additional letter (in option)

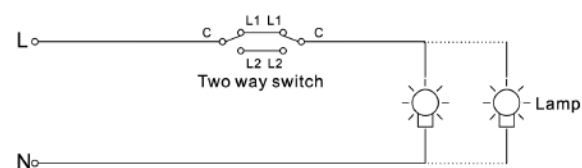
Specific information on the product

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

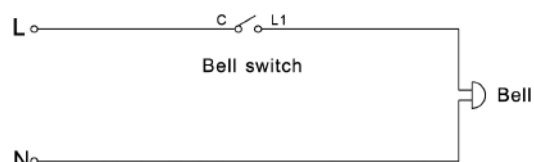
One way switch



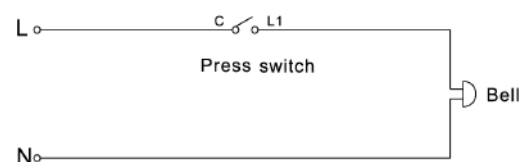
Two way switch



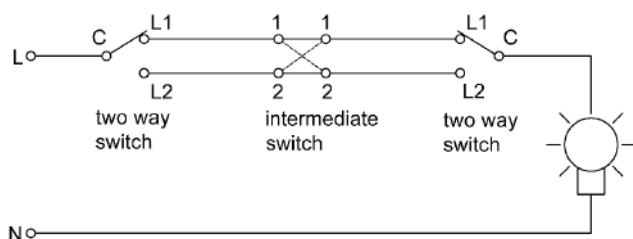
Marked BELL switch



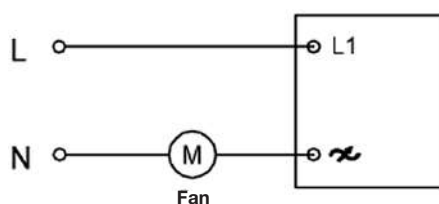
Marked PRESS switch



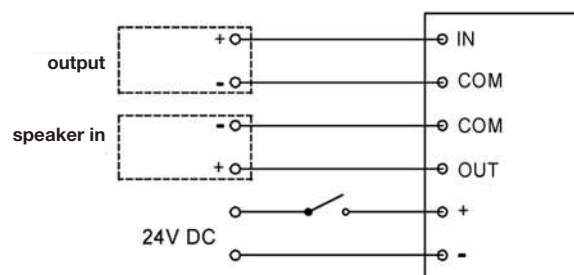
Intermediate switch



Fan control

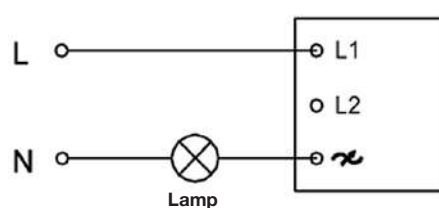


Audio switch

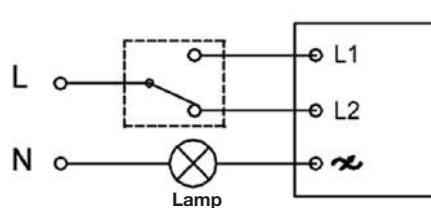


Dimmer switch

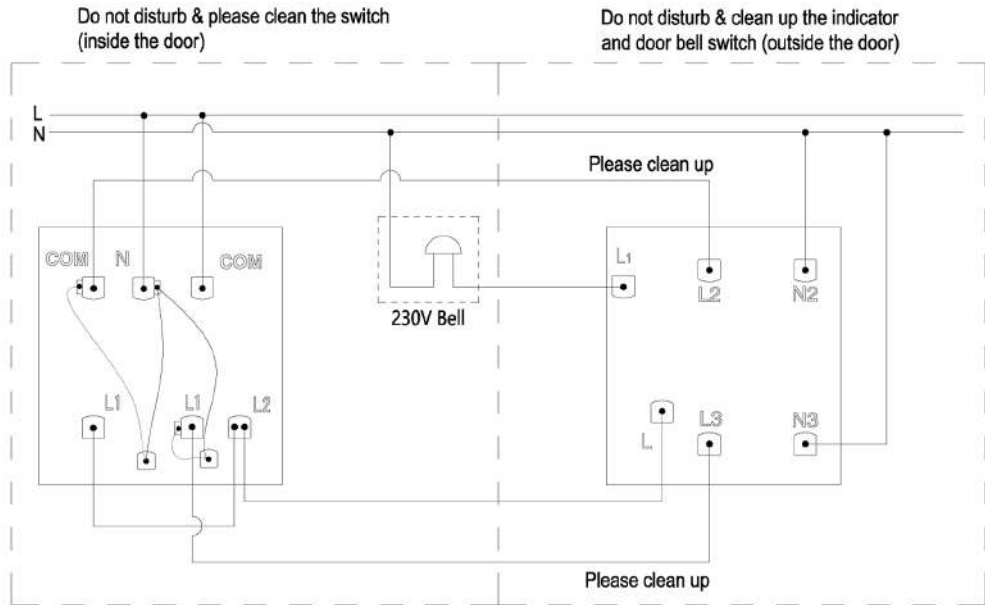
1. One way connection



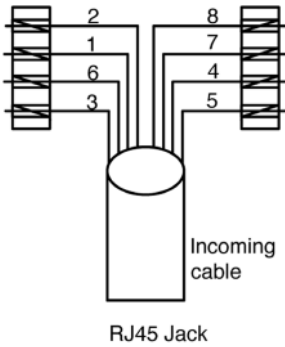
2. Two way connection



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)

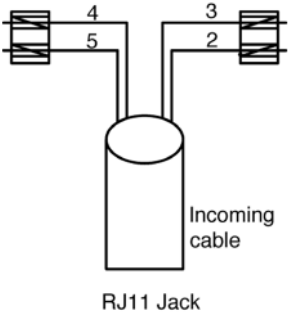


RJ45 Computer module cable diagram EIA/TIA 568B



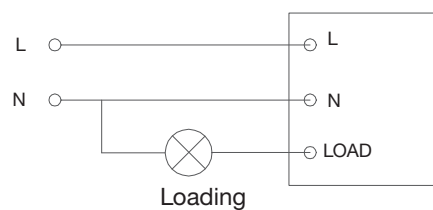
RJ45 Jack pin. EIA/TIA 568B	EIA/TIA 568A
1 White/Orange	White/Green
2 Orange	Green
3 White/Green	White/Orange
4 Blue	Blue
5 White/Blue	White/Blue
6 Green	Orange
7 White/Brown	White/Brown
8 Brown	Brown

RJ11 Telephone plug-in module cable diagram

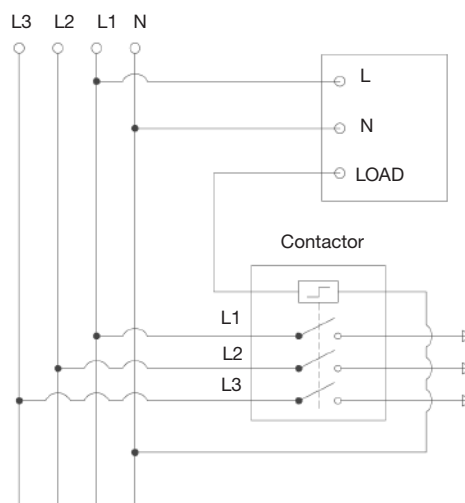


RJ11 Jack pin.
2 Blue/White
3 White/Blue
4 White/Red
5 Red/White

Key card Direct load



Key card Connected load through contactor



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.

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 Carlton 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, Myanmar
Four Seasons Hotel, Seychelles
Makati Shangri-La Hotel, Manila





Hager Dream



Hager Silhouette



Berker R.1



Berker R. Classic



hagerblu visage



Berker B.IQ



Hager golf



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 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 than 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

[illegible]



Hager Electro Systems Pte Ltd

12, Tai Seng Street,
#06-01B, Luxasia Building,
Singapore 534118

Tel: +(65) 6383 1030

Fax: +(65) 6383 0230

Email: sales@hager.sg

hager.com/sg

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