Hager Muse wiring accessories

:hager

Design for comfort and safety

Milestones of Hager wiring accessories



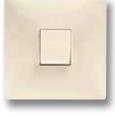
1919

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



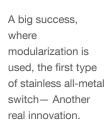
1928

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



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

equipped with large

rocker and blue LED

system 10088

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





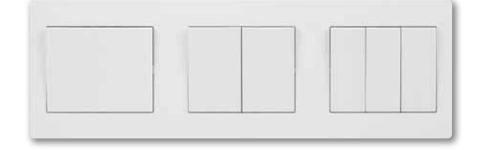


Socket with USB charger

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.

ſ		-	
	*5+ N=2AA	-	
	-		



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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TAKE

ME TO THE MOON \

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Hager Muse Wall switches



 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 mm ² 2 X 2.5 mm ²		
				switches can be ler 1 way or 2 way	
		Description	Pack qty.	Cat. Ref. White	
		Large dolly switch	10		
		16AX, 1 gang 1 way	10	WGML111	
		16AX, 1 gang 2 way	10	WGML112	
	WGML121 WGML122	16AX, 2 gang 1 way	10	WGML121	
		16AX, 2 gang 2 way	10	WGML122	
		16AX, 3 gang 1 way	10	WGML131	
		16AX, 3 gang 2 way	10	WGML132	
WGML131 WGML132	WGML142 WGML142	16AX, 4 gang 1 way	10	WGML141	
WGINE 132	WGIVIE 142	16AX, 4 gang 2 way	10	WGML142	
		10AX, 1 gang intermediate	10	WGML113	
		10A, 1 gang bell switch mark bell symbol	10	WGML111B	
WGML113	WGML111B	10A, 1 gang press switch mark "EXIT"	10	WGML111E	

WGML111E







Press switch 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



WGML141P

GML111 WGML111AS WGML111KB GML112 WGML112AS WGML112KB

WGML121AS

WGML122AS

WGML131AS

WGML132AS

WGML141AS

WGML142AS

WGML113AS

WGML111BAS

WGML111EAS

L1

Cat. Ref.

Aurora

Silver

L2 С hes can be

- Terminal markings denote:

= one way

- Material: Polycarbonate

Cat. Ref.

WGML121KB

WGML122KB

WGML131KB

WGML132KB

WGML141KB

WGML142KB

WGML113KB

WGML111BKB

WGML111EKB

Knight

Black



- 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		- Supplied with M3.5 x 37 mm long fixing screws	20AX	city of each termina E: 2 x 4 mm²	l: - Material:	Polycarbonate
			,	45A : 2.5 mm²~ 16 mm² : 2.5 mm²~ 16 mm²		
		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
WGML2D1	WGML2D2	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
WGML2D1N WGML2D12N	WGML2D2N	Remark: Grey reference produc	t - comin	g soon		
		Special marks Abbreviation "AIR CONDITONER" AC "DISH WASHER" DW "DRYER" DR "FRIDGE" FR	<u>Special r</u> "HOB" "HOOD "MICRO "OVEN"	" DWAVE"	viation <u>Special marks</u> HB "WASHER" HD "WASHING MW "WATER HE OV	WS MACHINE" WM
		Example: "WATER HEATER" W 20AX 1 gang with LED	Ή	WGML2D1NWH	WGML2D1NASWH	i wgml2D1nkbwh
	1	Control switch with LED 32A with LED	8	WGMR32D1	WGMR32D1AS	WGMR32D1KB

8

WGMR45D1

WGMR45D1AS

	Subject to	change	without prior	notice
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45A with LED

WGMR45D1KB



- Complies with BS 5733 IEC 60998-1 IEC 60998-2- BS 1363-4 (Fu		- Supplied with M3.5 x 37 mm - long fixing screws	25A L, N, E 45A L, N, E	ty of each terminal 4 x 2.5mm ² or 2 x 4 or 1 x 6mm ² 7 x 2.5mm ² or 4 x 4 or 2 x 6mm ²	L, N : 3) 4mm² E : 2 x	
		Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
		25A with flex outlet	14	WGMR25	WGMR25AS	WGMR25KB
WGMB25 V	VGMB45	45A with flex outlet	10	WGMR45	WGMR45AS	WGMR45KB
WGININ23 V	VGIVIN45	13A fused with flex outlet	10	WGMR13	WGMR13AS	WGMR13KB
		13A fused with LED + flex outlet	10	WGMR13N	WGMR13NAS	WGMR13NKB
0		13A switched fused with flex outlet	10	WGMR13S	WGMR13SAS	WGMR13SKB
WGMR13 V	VGMR13N	13A switched fused with flex outlet, with LED	10	WGMR13SN	WGMR13SNAS	WGMR13SNKB



Hager Muse 15A and 16A socket outlets

WGMR13SN

WGMR13S

- 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	- USB o 2.4A (N	utput current ⁄lax)	- Material: Polycarbonate	
		- Capacity of each terminal: L, N, E : 3 X 2.5 mm ² or 2 X 4.0 mm ²	 Integral rocker design of switched sockets provides clear red 'on' indication 		s	
		Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
-	-	15A round pin switched	10	WGMS115S	WGMS115SAS	WGMS115SKB
	12	16A German with shutter	8	WGMS116S	WGMS116SAS	WGMS116SKB
WGMS115S	WGMS116S	16A single Euro-American	10	WGMS116EA	WGMS116EAAS	WGMS116EAKB
		16A twin Euro-American	10	WGMS216EA	WGMS216EAAS	WGMS216EAKB
		16A single switched universal	10	WGMS116IS	WGMS116ISAS	WGMS116ISKB
WGMS116EA	WGMS216EA	16A twin switched universal	12	WGMS216IS	WGMS216ISAS	WGMS216ISKB
	<u> </u>	16A single switched universal + 2x USB chargers	8	WGMS116ISUSB	WGMS116ISUSBAS	WGMS116ISUSBKB
		16A, 2+3 pin universal	8	WGMS216UI	WGMS216UIAS	WGMS216UIKB
WGMS116IS	WGMS216IS					



WGMS116ISUSB WGMS216UI



Hager Muse 5A and 10A socket outlets

- 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 mm ² or 2 X 4.0 mm ²		 Integral rocker design of switched sockets provides clear red 'on' indication Material: Polycarbonate 		
		Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
WGMS105S	WGMS110US	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
WGMS210U		Remark: Grey reference produc	et - coming	g soon		
Hager	Muse					

13A socket outlets

- Complies with - Supplied with M3.5 x 37 mm - USB output current - Material: Polycarbonate BS 1363-2 long fixing screws 2.4A (Max) SS 145-2 - Capacity of each terminal: - Integral rocker design of L, N, E : 3 X 2.5 mm² or switched sockets provides 2 X 4.0 mm² clear red 'on' indication Description Pack Cat. Ref. Cat. Ref. Cat. Ref. qty. White Aurora Knight Silver Black WGMS113 WGMS113S 13A single 10 **WGMS113** WGMS113AS WGMS113KB 13A single switched 10 WGMS113S WGMS113SAS WGMS113SKB 13A single switched with LED WGMS113N WGMS113NAS WGMS113NKB 10 WGMS113N WGMS113SUSB WGMS113SUSB WGMS113SUSBAS WGMS113SUSBKB 13A single switched + 2 x USB charger 8 13A single switched + 1 x USB charger 8 WGMS113S1USB WGMS113S1USBAS WGMS113S1USBKB 13A twin **WGMS213** WGMS213AS WGMS213KB 14 WGMS113S1USB 13A twin switched **WGMS213S** WGMS213SAS WGMS213SKB 14 13A twin switched with LED WGMS213N WGMS213NAS WGMS213NKB 14 13A twin switched + 2 x USB charger 10 WGMS213SUSB WGMS213SUSBAS WGMS213SUSBKB WGMS213

Remark: Grey reference product - coming soon

WGMS213S







- 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
	2 2	RJ11 outlet 1 mod	10	WGMT1RJ	WGMT1RJAS	WGMT1RJKB
		2 mod	10	WGMT2RJ	WGMT2RJAS	WGMT2RJKB
WGMT1RJ	WGMT2RJ					
		RJ45 outlet loose plate 1 mod	20	WGMT1RJ6LP	WGMT1RJ6LPAS	WGMT1RJ6LPKB
WGMT1RJ6LP	WGMT1RJ6LPNM	1 mod without symbol	20	WGMT1RJ6LPNM	WGMT1RJ6LPNMAS	WGMT1RJ6LPNMKB
WOWITHJOLF	WGINITINGOLFINI	2 mod	20	WGMT2RJ6LP	WGMT2RJ6LPAS	WGMT2RJ6LPKB
	= =	2 mod without symbol	20	WGMT2RJ6LPNM	WGMT2RJ6LPNMAS	WGMT2RJ6LPNMKB
WGMT2RJ6LP	WGMT2RJ6LPNM					
		RJ45 cat6 outlet 1 mod	10	WGMT1RJ6	WGMT1RJ6AS	WGMT1RJ6KB
		1 mod	10	WGMT1RJ6NM	WGMT1RJ6NMAS	WGMT1RJ6NMKB
WGMT1RJ6	WGMT1RJ6NM	without symbol	10			
		2 mod	10	WGMT2RJ6	WGMT2RJ6AS	WGMT2RJ6KB
		2 mod without symbol	10	WGMT2RJ6NM	WGMT2RJ6NMAS	WGMT2RJ6NMKB
WGMT2RJ6	WGMT2RJ6NM					
		RJ45 cat5e outlet 1 mod	10	WGMT1RJ5	WGMT1RJ5AS	WGMT1RJ5KB
		2 mod	10	WGMT2RJ5	WGMT2RJ5AS	WGMT2RJ5KB
WGMT1RJ5	WGMT2RJ5					
		RJ11 + RJ45 cat5e 2 mod	10	WGMT2RJRJ5	WGMT2RJRJ5AS	WGMT2RJRJ5KB
	0	RJ11 + RJ45 cat6 2 mod	10	WGMT2RJRJ6	WGMT2RJRJ6AS	WGMT2RJRJ6KB
WGMT2RJRJ5 WGMT2RJRJ6	WGMT2TVRJ5	TV inlet/outlet + RJ45 cat5e 2 mod	10	WGMT2TVRJ5	WGMT2TVRJ5AS	WGMT2TVRJ5KB
0	•	TV inlet/outlet 1 mod	10	WGMT1TV	WGMT1TVAS	WGMT1TVKB
WGMT1TV	WGMT2TVRJ6	TV inlet/outlet + RJ45 cat6 (DATA marking) 2 mod	10	WGMT2TVRJ6	WGMT2TVRJ6AS	WGMT2TVRJ6KB
	•	TV outlet, F type 1 mod	10	WGMT1TVF	WGMT1TVFAS	WGMT1TVFKB
WGMT1TVF	WGMT2TVFRJ6	TV outlet, F type + RJ45 Cat6 (DATA marking) 2 mod	10)	WGMT2TVFRJ6	WGMT2TVFRJ6AS	WGMT2TVFRJ6KB

:hage	er					Hager Muse Hotel range
- 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			
		Description	Pack qty.	Cat. Ref. White	Cat. Ref. Aurora Silver	Cat. Ref. Knight Black
WGMHDC		16AX, DND & MUR with LED (Indoor)	10	WGMHDC	WGMHDCAS	WGMHDCKB
WGMHDC						
124	-	6W Audio switch	6	WGMEA6	WGMEA6AS	WGMEA6KB
\mathbb{O}		USB charger 4.2A (1 type C) + (2 x type A)	8	WGMS3USB	WGMS3USBAS	WGMS3USBKB
WGMEA6	WGMS3USB	16A key tag - mechanical	6	WGMHKTM	WGMHKTMAS	WGMHKTMKB

6

WGMHKTRFID

WGMHKTRFIDAS WGMHKTRFIDKB

16A key tag - RFID



WGMHKTM WGMHKTRFID

Hager Muse Others



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

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

XC9004

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

XC9003

i-gang, horizontal 12 WGMCH4 WGMCH4AS WGMCH4KB

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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.Modiam in utetuero commolumsan vullamet nonulput luptat nim ipit nit nit irit, voloreet velit, quam do estrud modoles equatet veliscilit in ulputpat. Dui tatisse quisi.

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 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	General Requirements Isolating transformers and safety isolating transformers
	IEC 61558-2-5	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	[J	Protected against solid objects greater than 1.0mm
5	F	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	F	Protected against dripping water
2	<u>F</u>	Protected against dripping water when tilted up to 15°
3	Z	Protected against spraying water
4	J	Protected against splashing water
5	• [] •	Protected against water jets
6		Protected against heavy seas
7	15 cm	Protected against the effect of immer- sion
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
В	Protected against access of a finger
С	Protected against access of a tool - ø 2.5mm
D	Protected against access of a tool - ø 1mm

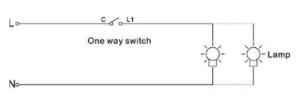
Additional letter (in option)

Specific information on the product

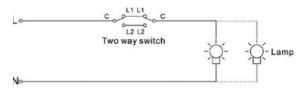
	Description
Н	High voltage material
Μ	Movements during water test
S	Stationary during water test
W	Bad weather

:hager

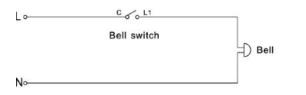
One way switch



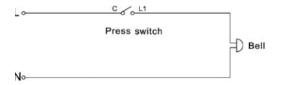
Two way switch



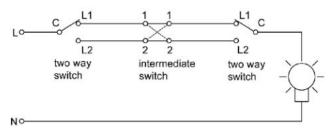
Marked BELL switch



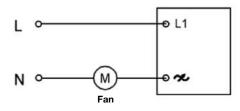
Marked PRESS switch



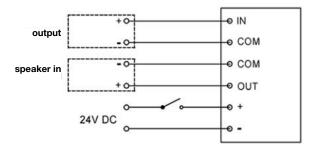
Intermediate switch



Fan control

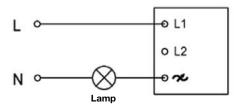


Audio switch

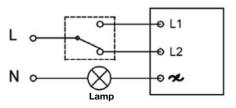


Dimmer switch

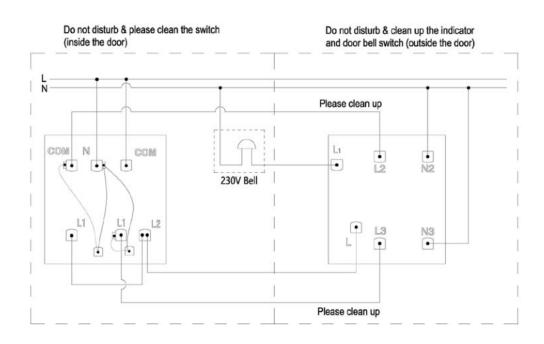
1. One way connection



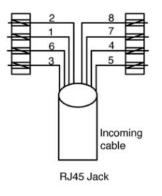
2. Two way connection



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

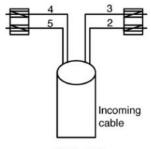


RJ45 Jack pin. EIA/TIA 568B

EIA/T		569	
EIM/II	in.	000	

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

RJ11 Telephone plug-in module cable diagram



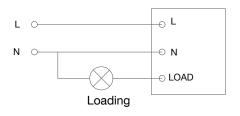
RJ11 Jack

RJ11 Jack pin.

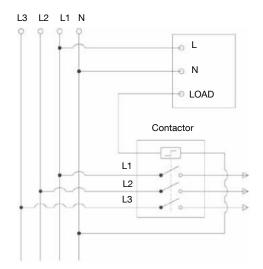
2 Blue/White 3 White/Blue 4 White/Red 5 Red/White

:hager

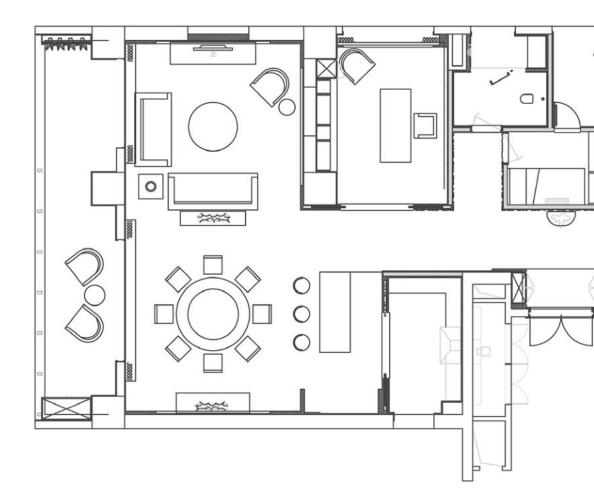
Key card Direct load



Key card Connected load through contactor



Residential application

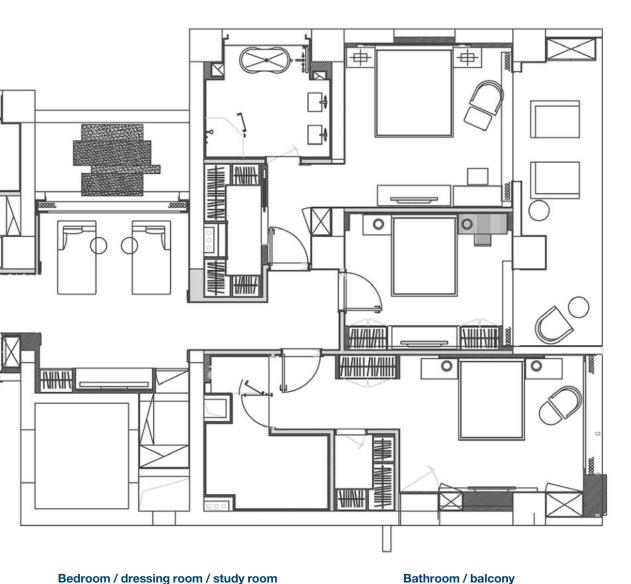


Home garden / dining room

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**

OTV	

2

2

1

1

1

1

1

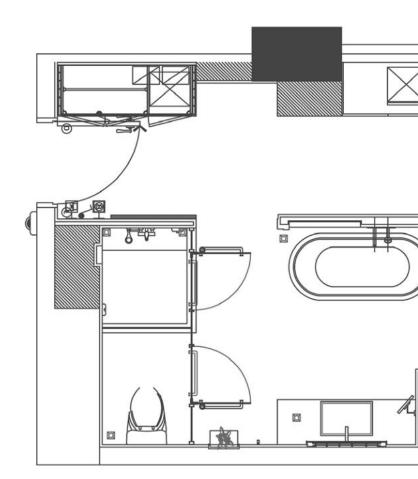
2

Product catalog

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

- 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

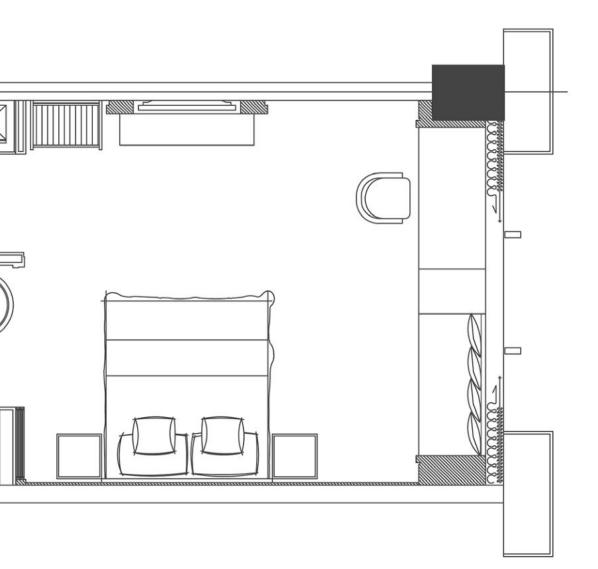
Hotel application



Entrance / Bar counter

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

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

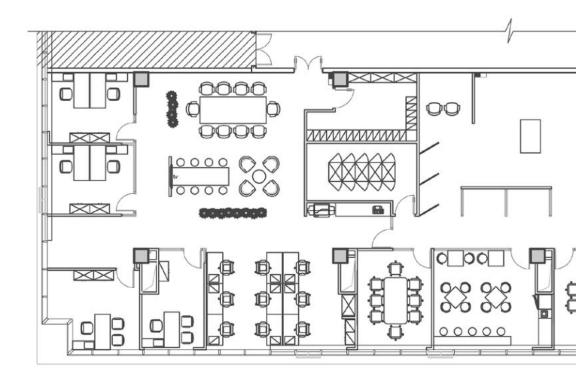
Product catalog

Bathroom

QTY

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



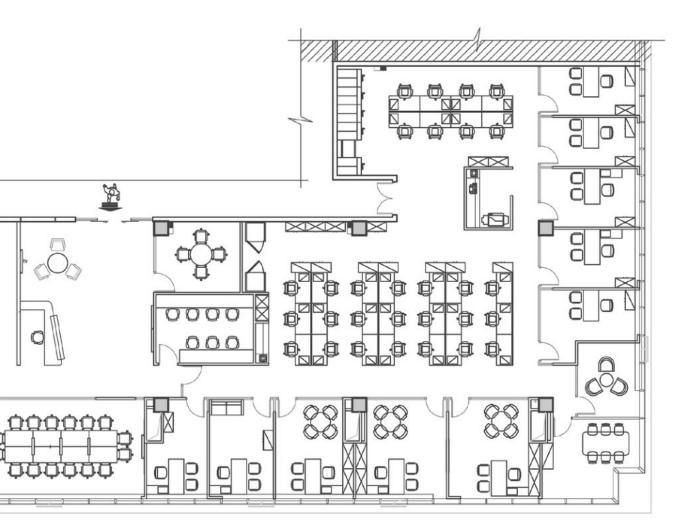
Single office

Product	cata	log
---------	------	-----

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

QTY

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**

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:

QTY 2 4

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.

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

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, İstanbul 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 Silhouette









Berker R. Classic





hagerblu visage





Berker B.IQ





Hager golf

reddat design award



Hager witty

reddat design awant winner 2013

Hager Design turns technical products into familiar friends.



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

Before we start designing a new product, we think about the people it is going to serve. Will it assist or entertain, observe or protect, save time or save energy? Ideally, whatever it does, users will feel it is a reliable "friend". We need to know how to connect with people on an emotional level, to ensure that in return they feel connected to our products. Design links exquisite emotions to great usability and quality. How to illustrate this better then through this new HAGER range? I designed it with special care to become a real trendsetter for good taste. We know that the Asian continent is constantly raising his design sensibility and quality expectations. It is exciting to create in this particular context where tradition and change operate together.

This new design range will upgrade the standard of living in a clearly visible way. Hope you enjoy it as much as I do.

Am

Erwin van Handenhoven

Corporate Design Director of Hager Group Hager Group Design Director



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