

Hager Desire
wiring accessories

Elevate every moment



:hager

Modern and minimalist

Our frameless range invites you to witness a canvas of possibilities, where the sophisticated simplicity accentuates the beauty of your spaces, setting a new benchmark for modern living.





Frameless design

The ultra-slim, frameless design offers a seamless integration into any living space, where your spaces are not just designed but transformed with a timeless allure.



High 16AX rating

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



Socket with USB charger

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

Exceptional performance



Engineered excellence in every interaction

Designed to meet and exceed the demands of the modern user, every product within the range guarantees reliability, consistency, and superior functionality that stands the test of time.



Eco-packaging

Sustainability and eco-friendly solutions are our promise to our customers. That's why we adhere to environmental philosophy by only using sustainable recycled packaging material.



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.



Child-proof 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.

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- Complies with IEC 60669-1 CB certificate
- 'AX' rated - No need to derate for fluorescent loads
- 16 AX (200W Self Ballasted Lamp (SBL))
- Supplied with M3.5 x 25 mm long fixing screws
- Two way switches can be wired either 1 way or 2 way
- Capacity of each terminal:
For 16AX/10A:
3 x 1.5 mm²
2 X 2.5 mm²
For 20AX DP:
2 X 4 mm²
- Terminal markings denote:
L1 = one way
L2 = two way
L = common
- Material: Polycarbonate

	Description	Pack qty.	Cat. Ref. White	Cat. Ref. Knight Black	Cat. Ref. Aurora Silver
Large dolly switch					
 WGFL111 WGFL112	16AX, 1 gang 1 way	10	WGFL111	WGFL111KB	WGFL111AS
 WGFL121 WGFL122	16AX, 1 gang 2 way	10	WGFL112	WGFL112KB	WGFL112AS
	16AX, 2 gang 1 way	10	WGFL121	WGFL121KB	WGFL121AS
	16AX, 2 gang 2 way	10	WGFL122	WGFL122KB	WGFL122AS
 WGFL131 WGFL132	16AX, 3 gang 1 way	10	WGFL131	WGFL131KB	WGFL131AS
 WGFL142	16AX, 3 gang 2 way	10	WGFL132	WGFL132KB	WGFL132AS
	16AX, 4 gang 2 way	10	WGFL142	WGFL142KB	WGFL142AS



Bell switch

10A, 1 gang bell switch mark "bell symbol"	10	WGFL111B	WGFL111BKB	WGFL111BAS
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DP switch

20AX, 1 gang with LED	10	WGFL2D1N	WGFL2D1NKB	WGFL2D1NAS
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Special marks	Abbreviation	Special marks	Abbreviation	Special marks	Abbreviation
"HOB"	HB	"FRIDGE"	FG	"WASHER"	WA
"HOOD"	HD	"MICROWAVE"	MW	"WASHING MACHINE"	WM
"DISHWASHER"	DW	"OVEN"	OV	"WATER HEATER"	WH
"DRYER"	DR	"WINE CHILLER"	WC		

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

WGFL2D1NWH **WGFL2D1NKBWH** **WGFL2D1NASWH**

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

- Capacity of each terminal:
L, N, E : 3 X 4 mm²

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

- Material: Polycarbonate

Description		Pack qty.	Cat. Ref. White	Cat. Ref. Knight Black	Cat. Ref. Aurora Silver
					
13A Socket outlets					
 WGFS113S	 WGFS113S1USB	13A single switched	10	WGFS113S	WGFS113SKB WGFS113SAS
		13A single switched + 1 x USB charger	8	WGFS113S1USB	WGFS113S1USBKB WGFS113S1USBAS
		13A twin switched	5	WGFS213S	WGFS213SKB WGFS213SAS
 WGFS213S					
15A Socket outlets					
 WGFS115S	15A round pin switched		10	WGFS115S	WGFS115SKB WGFS115SAS

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

		Description	Pack qty.	Cat. Ref. White	Cat. Ref. Knight Black	Cat. Ref. Aurora Silver
						
		Data / TV				
		Single RJ45 Data Outlet Cat6	10	WGFT1RJ6	WGFT1RJ6KB	WGFT1RJ6AS
WGFT1RJ6	WGFT1TV	Single TV Inlet/Outlet	10	WGFT1TV	WGFT1TVKB	WGFT1TVAS
		Single TV Outlet F Type	10	WGFT1TVF	WGFT1TVFKB	WGFT1TVFAS
		Twin TV Inlet/Outlet + RJ45 Cat6	10	WGFT2TVRJ6	WGFT2TVRJ6KB	WGFT2TVRJ6AS
WGFT1TVF	WGFT2TVRJ6	Twin TV Outlet F Type + RJ45 Cat6	10	WGFT2TVFRJ6	WGFT2TVFRJ6KB	WGFT2TVFRJ6AS
						
WGFT2TVFRJ6						

- Complies with
BS 5733
IEC 60998-1
IEC 60998-2-1

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

- Capacity of each terminal:
L, N, E : 4 X 2.5 mm²
2 X 4.0 mm²
1 X 6.0 mm²

- Material: Polycarbonate

	Description	Pack qty.	Cat. Ref. White	Cat. Ref. Knight Black	Cat. Ref. Aurora Silver
					
Connection unit					
 WGFR25	25A with flex outlet	10	WGFR25	WGFR25KB	WGFR25AS
Accommodation plate					
 WGFVE3	3 mods, 67.5mm x 45mm	20	WGFVE3	WGFVE3KB	WGFVE3AS
 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 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 IEC 60998-1 IEC 60998-2-1	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.

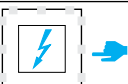
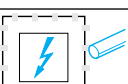
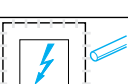
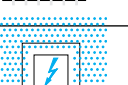
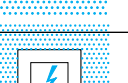
The Electrical Equipment (Safety) Regulations requires electrical equipment to be safe. Electrical equipment which satisfies the safety provisions of Harmonised standards shall be taken to comply with this requirement, unless there are reasonable grounds for suspecting that the equipment does not so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

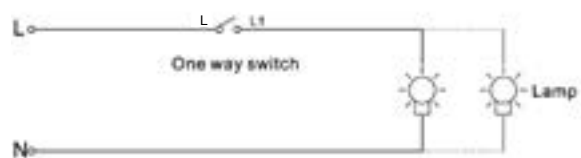
	Description
A	Protected against access of the back of the hand
B	Protected against access of a finger
C	Protected against access of a tool - ø 2.5mm
D	Protected against access of a tool - ø 1mm

Additional letter (in option)

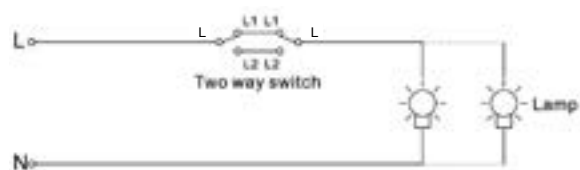
Specific information on the product

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

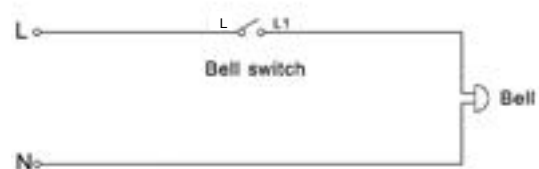
One way switch



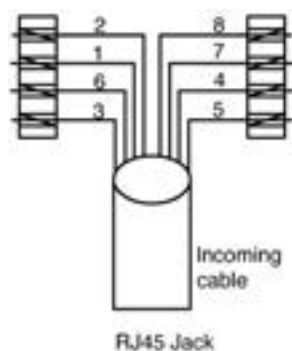
Two way switch



Marked BELL switch



RJ45 Computer module cable diagram EIA/TIA 568B
(Compliance to EIA/TIA 568-C-2)



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

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