



OPTIMA SERIES

Industrial plugs and sockets



OPTIMA Series

INDUSTRIAL PLUGS AND SOCKETS



VERSIONS

	Plugs
	Connectors
	Appliance inlets
	Flush mounting socket outlets
	Surface mounting socket outlets

Nickel-plated brass pins to guarantee long-lasting efficiency of the electrical contact.

REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	100÷690V~
Frequency:	d.c - 50÷500Hz
Insulating voltage:	500/690V~
Protection degree:	IP44 - IP66/IP67
Operating temperature according to the reference standard:	-25°C +40°C
Max operating temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable gland
Halogen free:	Yes
Terminals:	Screw (16A-32A-63A-125A) Insulation perforating (16A) Spring (32A mobile) Spring (16A-32A flush/surface mounting) Mantle (63A-125A)
Safe-in device:	16A
Snap-on device:	16A-32A
Nickel-plated pins:	16A-32A-63A-125A

NICKEL-PLATED PINS



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Limited Resistance

For specific substances please contact our technical service.

■ WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

Max. cable size accepted by the cable clamp:

Rated voltage	Rated current (A)	Plugs, connectors and appliance inlets		Socket outlets	
		Min	Max	Min	Max
Over 50V	16A	1	2,5	1,5	4
	32A	2,5	6	2,5	10
	63A	6	16	6	25
	125A	16	50	25	70

Rated current (A)	Outside Ø mm	
	Min	Max
16A	8	15
32A	11,5	21
63A	17	31
125A	26	48

■ APPLICATION EXAMPLES



OPTIMA Series



On the 16A and 32A "Snap-on" device with stainless steel spring to guarantee frequent opening/closing (possibility to inspect the terminals).



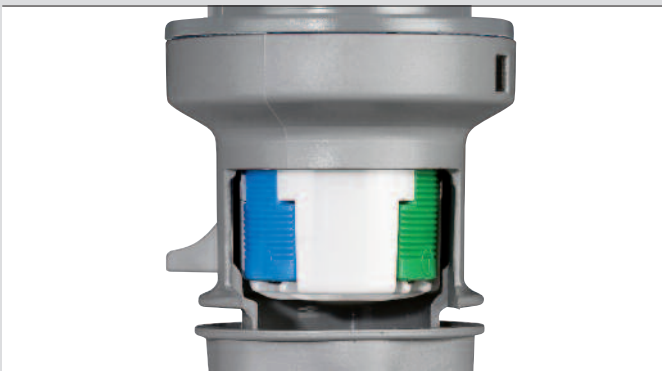
External cable stay with tulip clamping having IP66/IP67 cable gland functions (the device is used on both IP44 and IP66/IP67 products).



16A plugs and connectors with insulation perforating terminals which allow wiring without stripping the conductor.



Insulation piercing terminal made in highly elastic phosphor bronze.



Internal profile of the handle which avoids the accidental opening of the contact.



Socket/plug module with screw terminals (16A - 32A - 63A - 125A).

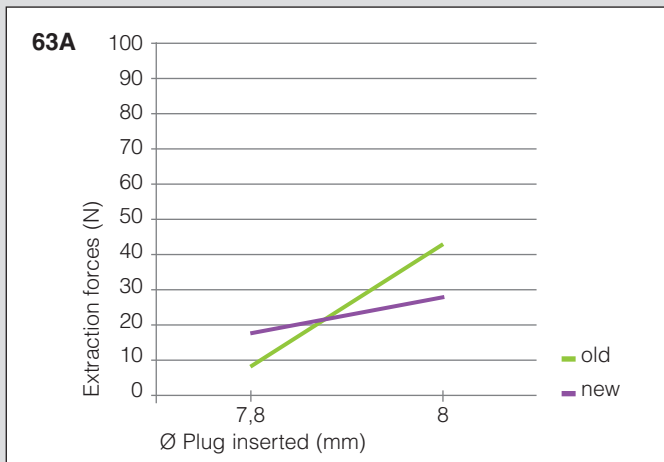


32A plugs and connectors with screwless spring terminal. Requires cable stripping, but not the tightening of the screws.

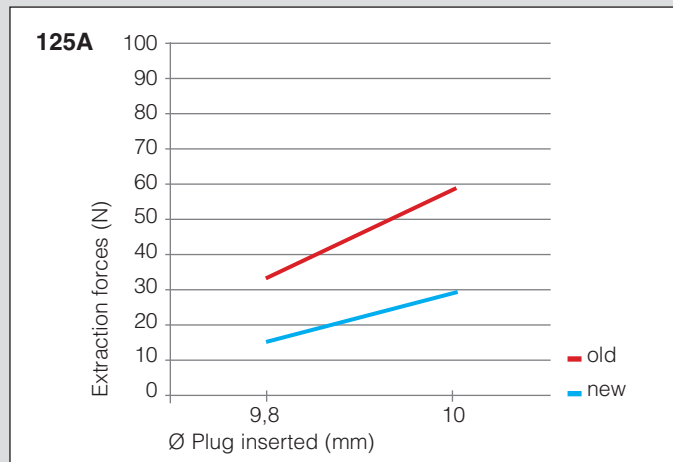


16-32A plugs, flush mounting sockets and surface mounting sockets with spring terminals.

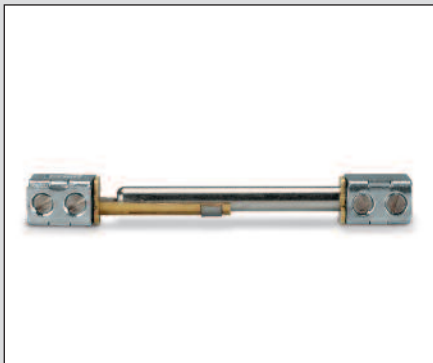
■ EXTRACTION FORCES



The reduction in plug-socket insertion and extraction forces was obtained thanks to the study of a new compression spring of the socket contact. As illustrated in this graph, the reduction in the force was an average of 30% compared to the previous versions, in any event guaranteeing low contact resistance.



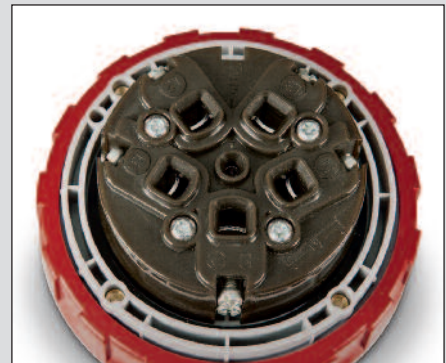
The materials of the pin and contact tube have different surface hardness so as to eliminate, during insertion and extraction operations, the layer of oxide that forms on the surface, thus improving contact smoothness and resistance while keeping them unchanged over time.



The axial incisions and the new compression spring of the socket contact with elasticity coefficient such as to keep insertion and extraction forces constant.



The nickel-plating of the socket contact combined with the special drawing and polishing process increase smoothness and ensure a higher number of contact points.



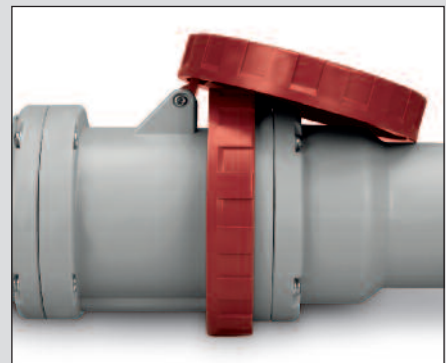
Thanks to their characteristic geometry, the new mantle terminals are suited to all types of conductors and terminals. They increase cable accessibility and contact surface, thus allowing higher tightening torques to benefit contact resistance and seal.



All gaskets are moulded directly on the cover and at the coupling point with the grip. Grip closing is by means of metric screws and metal inserts, making tightening easier and allowing for unlimited inspections and closings.



Contact holder in special technopolymer with fibreglass, featuring high heat resistance. Pilot contacts available as standard equipment on both plugs and sockets.



Entirely made with halogen-free materials, with excellent mechanical resistance to impacts, chemical substances and UV rays.

Increased safety “SAFE-IN”



■ THE “SAFE-IN” SAFETY DEVICE

The “SAFE-IN” safety device assembled on the 16A industrial sockets is the most innovative element of the new OPTIMA Series. The “SAFE-IN” device works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires.

This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.

■ SAFETY LEVEL OF THE OPTIMA SERIES SOCKETS

The OPTIMA Series sockets with the “SAFE-IN” safety device guarantee a higher level of safety in comparison with ordinary industrial sockets, especially in environments where there may be children present or people who have not been trained about electrical dangers (public areas, amusement parks, campgrounds, open markets, etc.).

Dangerous situations, such as the important examples illustrated in the figure to the side, can be resolved thanks to the new OPTIMA Series sockets equipped with the “SAFE-IN” safety device.



Connector tube protective shutter for greater safety against direct contacts. (The SAFE-IN safety device).

■ APPLICATION EXAMPLES



■ POTENTIALLY DANGEROUS SITUATIONS





PLUGS AND CONNECTORS FOR DEMANDING APPLICATIONS



OUTSTANDING HEAT AND FIRE RESISTANCE

The technopolymer used for OPTIMA-HD guarantees an excellent heat and fire resistance: Glow Wire 960°C according to EN 60695-2-1; 5VA according to UL94.

OUTSTANDING IMPACT RESISTANCE

This material guarantees an excellent mechanical resistance to impacts. The impact resistance of the casings is higher than 20J (IK10) according to EN50102, even under limit temperature conditions (-40°C +60°C).

RESISTANCE TO ATMOSPHERIC AGENTS

The structure and materials used also make OPTIMA-HD a product suited for the most extreme environmental conditions. The special silicon gasket and the IP67 degree guarantees an excellent seal against the entry of solid objects or liquids into the casings even after a long term installation, and an outstanding resistance against UV radiation.

REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	48÷440V~
Frequency:	50÷60Hz
Insulating voltage:	500/690V~
Protection degree:	IP66/IP67
Operating temperature according to the reference standard:	-25°C +40°C
Max operating temperature:	-40°C +60°C
Glow wire test:	850°C/960°C
Self extinguishing UL94:	5VA
Material:	Thermoplastic
IK degree:	IK10
Terminals:	Screw
Snap-on:	16A-32A
Nickel plated pins:	16A-32A-63A-125A

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Limited Resistance

For specific substances please contact our technical service.

OPTIMA-BASE-TOP-COMBI Series

INDUSTRIAL SURFACE MOUNTING SOCKET OUTLETS



REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

QUALITY MARKS



VERSIONS



BASE version

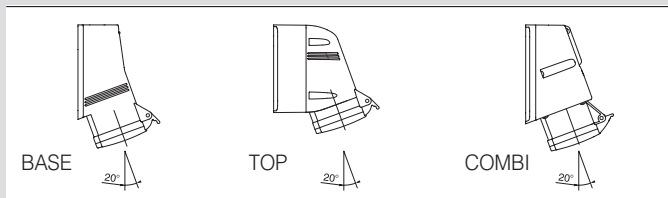


TOP version



COMBI version

SURFACE MOUNTING INSTALLATION AXIS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	100÷690V~
Frequency:	d.c - 50÷500Hz
Insulating voltage:	500/690V~
Protection degree:	Base and top: IP44 - IP66/IP67 COMBI: IP44 closed cover
Operating temperature according to the reference standard:	-25°C +40°C
Max operating temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable sleeve IP44 Cable gland IP66/IP67
Halogen free:	Yes
Terminals:	Screw (16A-32A) Spring (32A)
Safe-in device:	16A
Fuses:	Max 10A - 5x20mm
(COMBI version)	H: high power cutoff (1500A) T: delayed action

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Limited Resistance

For specific substances please contact our technical service.



Fastening to exterior wall.



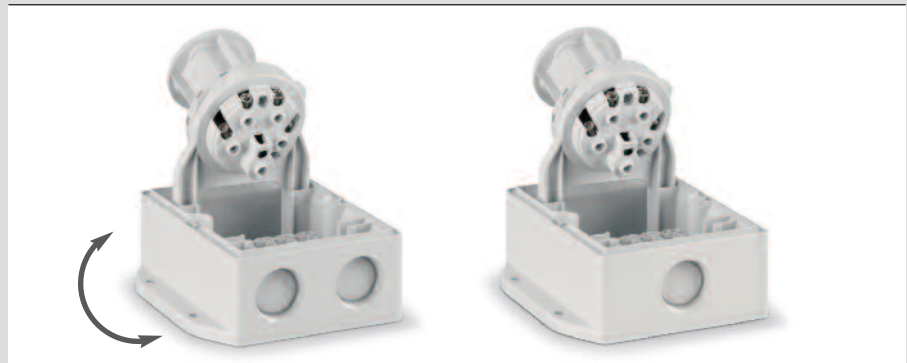
TOP version: threaded knockout hole inlets, version IP66/IP67, for quick fastening of the cable entry device. IP44 versions supplied with cable gland.



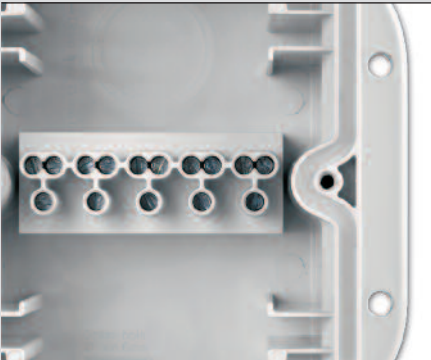
16-32A Surface mounting sockets with spring terminals.



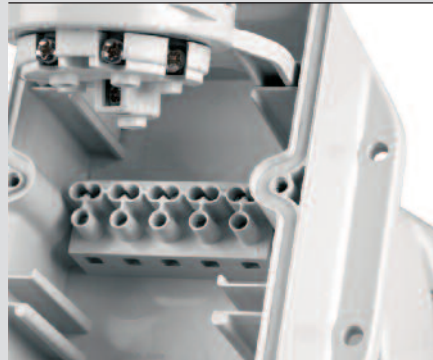
TOP version: ability to create entry-exit.



TOP version: reversible base and removable socket for easy wiring.



TOP IP66/IP67 version: integrated, one-piece gasket, fastening screws outside the gasket.



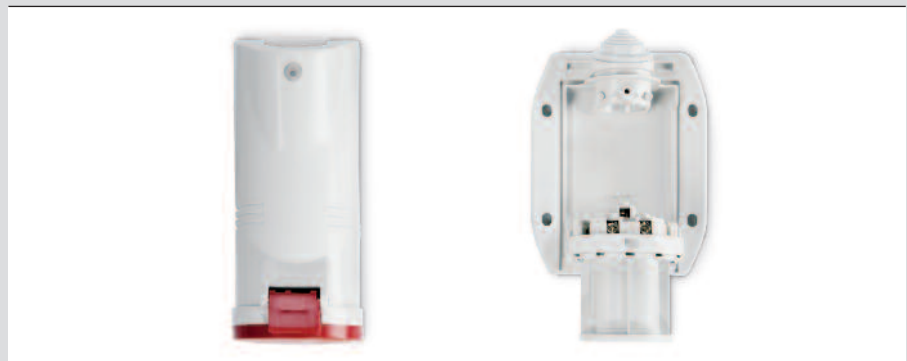
TOP version: entry-exit terminal board accessory.



TOP version: versions with SAFE-IN (16A) safety device available.



COMBI version: combined versions, industrial and household socket.



BASE version: simplified wiring. Socket fixed to the base, open terminals orientated in the same direction and easily accessible.

OPTIMA-REVERSE Series

PLUGS WITH PHASE INVERTER



REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability
requirements for pin and contact-tube accessories.

VERSIONS



Plugs



Appliance inlets

PHASE INVERTER



Fixed and movable plugs which rapidly invert two phases in order to return to the correct direction of rotation of three-phase motors for movable and fixed applications.

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	346÷415V~
Frequency:	50÷60Hz
Insulating voltage:	690V~
Protection degree:	IP44 - IP66/IP67
Operating temperature according to the reference standard:	-25°C +40°C
Max operating temperature:	60°C
Glow wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable gland
Halogen free:	Yes
Terminals:	Screw
Snap-on device:	16A-32A
Polarity:	3P+E / 3P+N+E
Connectable cables:	Flexible class 5 or 6

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Limited Resistance

For specific substances please contact our technical service.

■ WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

Rated voltage	Rated current (A)	Plugs Appliance inlets	
		Min	Max
Over 50V	16A	1	2,5
	32A	2,5	6

Max. cable size accepted by the cable clamp:

Rated current (A)	Outside Ø mm	
	Min	Max
16A	8	15
32A	11,5	21

■ OPERATING PRINCIPLE OF THE PHASE INVERTER



The phases are inverted by simply pushing and turning the phase pin support with a screwdriver.

Industrial plugs and sockets

PLUGS



					IP44		FAST WIRING		
									
					16A cable gland 10/50	32A cable gland 10/40	16A cable gland 10/50	32A cable gland 10/40	63A cable gland 6/24
2P+E	50/60	100-130		4	213.1630 (Δ)	213.3230	213.1630P (Δ)	213.3230F	213.6330
	50/60	200-250		6	213.1633 (▲) (Δ)	213.3233 (▲)	213.1633P (▲) (Δ)	213.3233F (▲)	213.6333 (▲)
	50/60	380-415		9	213.1638	213.3238	213.1638P	213.3238F	213.6338
	50/60	480-500		7	213.16336	213.32336			213.63336
	50/60	trasf.		12	213.16333	213.32333			213.63333
	>300-500	>50		2	213.16332	213.32332			213.63332
	c.c.	>50-250		3	213.16334	213.32334			213.63334
	c.c.	>250		8	213.16338	213.32338			213.63338
3P+E	50/60	100-130		4	213.1631	213.3231			213.6331
	50/60	200-250		9	213.1634	213.3234	213.1634P	213.3234F	213.6334
	50/60	380-415		6	213.1636 (▲) (•)	213.3236 (▲) (•)	213.1636P (▲) (Δ)	213.3236F (▲)	213.6336 (▲)
	60	440-460		11	213.16365	213.32365			213.63365
	50/60	480-500		7	213.16366	213.32366			213.63366
	50/60	600-690		5	213.16367	213.32367			213.63367
	50/60	380/440		3	213.16364	213.32364			213.63364
	100-300	>50		10	213.16361	213.32361			213.63361
3P+N+E	>300-500	>50		2	213.16362	213.32362			213.63362
	50/60	100-130		4	213.1632	213.3232			213.6332
	50/60	208-250		9	213.1635	213.3235			213.6335
	50/60	346-415		6	213.1637 (▲) (•)	213.3237 (▲) (•)	213.1637P (▲) (Δ)	213.3237F (▲)	213.6337 (▲)
	50/60	480-500		7	213.16376	213.32376			213.63376
	50/60	600-690		5	213.16377	213.32377			213.63377
	60	440-460		11	213.16375	213.32375			213.63375
	50/60	380/440		3	213.16374	213.32374			213.63374
	>300-500	>50		2	213.16372	213.32372			213.63372

 Package/Bulk Pack.



= Screw terminals



= Spring terminals (fast wiring)



= Insulation perforating terminals (fast wiring)



= Mantle terminals



(•) Phase inverter

Plugs and flush mounting appliance inlets with phase inverter, page 29

IP66/IP67



				FAST WIRING	
16A	32A	63A	125A	16A	32A
cable gland 10/40	cable gland 10/40	cable gland 6/24	cable gland 1/8	cable gland 10/40	cable gland 10/40
218.1630 (Δ)	218.3230	218.6330	218.12530	218.1630P (Δ)	218.3230F
218.1633 (▲)(Δ)	218.3233 (▲)	218.6333 (▲)	218.12533 (▲)	218.1633P (▲)(Δ)	218.3233F (▲)
218.1638	218.3238	218.6338	218.12538	218.1638P	218.3238F
218.16336	218.32336	218.63336	218.125336		
218.16333	218.32333	218.63333	218.125333		
218.16332	218.32332	218.63332	218.125332		
218.16334	218.32334	218.63334			
218.16338	218.32338	218.63338			
218.1631	218.3231	218.6331	218.12531		
218.1634	218.3234	218.6334	218.12534	218.1634P	218.3234F
218.1636 (▲)(•)	218.3236 (▲)(•)	218.6336 (▲)	218.12536 (▲)	218.1636P (▲)	218.3236F (▲)
218.16365	218.32365	218.63365	218.125365		
218.16366	218.32366	218.63366	218.125366		
218.16367	218.32367	218.63367	218.125367		
218.16364	218.32364	218.63364	218.125364		218.32364F
218.16361	218.32361	218.63361	218.125361		
218.16362	218.32362	218.63362	218.125362		
218.1632	218.3232	218.6332	218.12532		
218.1635	218.3235	218.6335	218.12535		
218.1637 (▲)(•)	218.3237 (▲)(•)	218.6337 (▲)	218.12537 (▲)	218.1637P (▲)	218.3237F (▲)
218.16376	218.32376	218.63376	218.125376		
218.16377	218.32377	218.63377	218.125377		
218.16375	218.32375	218.63375	218.125375		
218.16374	218.32374	218.63374	218.125374		
218.16372	218.32372	218.63372	218.125372		



(▲) Black-coloured

Versions also available in black; just add ".K" at the end of the catalogue number. Example 213.1633.K



(Δ) Transparent grip

Version also available with transparent grip; just add ".TR" at the end of the catalogue number. Example 213.1633.TR

Industrial plugs and sockets

FLUSH MOUNTING APPLIANCE INLETS

IP44



Poles	Hz.	Volt	Colour	h.			
					16A 75x75 □ 10/50	32A 75x75 □ 10/50 ⁽¹⁾	63A 100x110 6/30
2P+E	50/60	100-130		4	243.1690	243.3290	243.6390
	50/60	200-250		6	243.1693 (▲)	243.3293 (▲)	243.6393 (▲)
	50/60	380-415		9	243.1698	243.3298	243.6398
	50/60	480-500		7	243.16936	243.32936	243.63936
	50/60	trasf.		12	243.16933	243.32933	243.63933
	>300-500	>50		2	243.16932	243.32932	243.63932
	c.c.	>50-250		3	243.16934	243.32934	243.63934
	c.c.	>250		8	243.16938	243.32938	243.63938
3P+E	50/60	100-130		4	243.1691	243.3291	243.6391
	50/60	200-250		9	243.1694	243.3294	243.6394
	50/60	380-415		6	243.1696 (▲)(•)	243.3296 (▲)(•)	243.6396 (▲)
	60	440-460		11	243.16965	243.32965	243.63965
	50/60	480-500		7	243.16966	243.32966	243.63966
	50/60	600-690		5	243.16967	243.32967	243.63967
	50/60	380/440		3	243.16964	243.32964	243.63964
	100-300	>50		10	243.16961	243.32961	243.63961
3P+N+E	>300-500	>50		2	243.16962	243.32962	243.63962
	50/60	100-130		4	243.1692	243.3292	243.6392
	50/60	208-250		9	243.1695	243.3295	243.6395
	50/60	346-415		6	243.1697 (▲)(•)	243.3297 (▲)(•)	243.6397 (▲)
	50/60	480-500		7	243.16976	243.32976	243.63976
	50/60	600-690		5	243.16977	243.32977	243.63977
	60	440-460		11	243.16975	243.32975	243.63975
	50/60	380/440		3	243.16974	243.32974	243.63974
	>300-500	>50		2	243.16972	243.32972	243.63972

□ Package/Bulk Pack.

⁽¹⁾ 3P+N+E= □ 10/40



= Screw terminals

(•) Cable gland provided



= Mantle terminals

OPTIMA Series



IP66/IP67



 METRIC ENTRY	
63A (◆)	125A (◆)
M32 3/12	M63 1/8
245.M6390	
245.M6393	245.M12593
245.M6394	
245.M6391	245.M12591
245.M6392	245.M12592
245.M6396	245.M12596
245.M6395	245.M12595
245.M6397	245.M12598
245.M6398	245.M12597



Plugs and flush mounting
appliance inlets with phase
inverter, page 29



Versions also available in black;
just add ".K" at the end of the catalogue
number. Example 243.1693.K

Industrial plugs and sockets

CONNECTORS - IP44



Poles	Hz.	Volt	Colour	h.	SAFE-IN 		SAFE-IN 
					16A cable gland □ 10/50	32A cable gland □ 10/40	16A cable gland □ 10/50
2P+E	50/60	100-130		4	313.1640 (Δ)	313.3240	313.1640H
	50/60	200-250		6	313.1643 (▲)(Δ)	313.3243 (▲)	313.1643H (▲)
	50/60	380-415		9	313.1648	313.3248	313.1648H
	50/60	480-500		7	313.16436	313.32436	
	50/60	trasf.		12	313.16433	313.32433	
	>300-500	>50		2	313.16432	313.32432	
	c.c.	>50-250		3	313.16434	313.32434	
	c.c.	>250		8	313.16438	313.32438	
3P+E	50/60	100-130		4	313.1641	313.3241	
	50/60	200-250		9	313.1644	313.3244	313.1644H
	50/60	380-415		6	313.1646 (▲)	313.3246 (▲)	313.1646H (▲)
	60	440-460		11	313.16465	313.32465	
	50/60	480-500		7	313.16466	313.32466	
	50/60	600-690		5	313.16467	313.32467	
	50/60	380/440		3	313.16464	313.32464	
	100-300	>50		10	313.16461	313.32461	
	>300-500	>50		2	313.16462	313.32462	
3P+N+E	50/60	100-130		4	313.1642	313.3242	
	50/60	208-250		9	313.1645	313.3245	
	50/60	346-415		6	313.1647 (▲)	313.3247 (▲)	313.1647H (▲)
	50/60	480-500		7	313.16476	313.32476	
	50/60	600-690		5	313.16477	313.32477	
	60	440-460		11	313.16475	313.32475	
	50/60	380/440		3	313.16474	313.32474	
	>300-500	>50		2	313.16472	313.32472	

□ Package/Bulk Pack.



= Screw terminals



= Spring terminals (fast wiring)



= Insulation perforating terminals (fast wiring)



= Mantle terminals

OPTIMA Series



FAST WIRING


16A

cable gland
□ 10/50

32A

cable gland
□ 10/40

63A

cable gland
□ 6/24

313.1640P (Δ)

313.3240F

313.6340

313.1643P (▲)(Δ)

313.3243F (▲)

313.6343 (▲)

313.1648P

313.3248F

313.6348

313.63436

313.63433

313.63432

313.63434

313.63438

313.6341

313.1644P

313.3244F

313.6344

313.1646P (▲)

313.3246F (▲)

313.6346 (▲)

313.63465

313.63466

313.63467

313.63464

313.63461

313.63462

313.6342

313.6345

313.1647P (▲)

313.3247F (▲)

313.6347 (▲)

313.63476

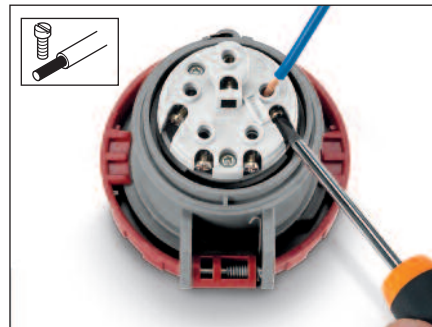
313.63477

313.63475

313.63474

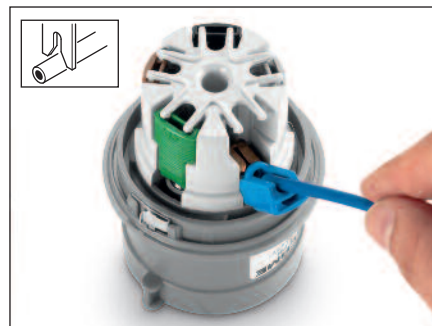
313.63472

SCREW TERMINALS - CONVENTIONAL WIRING



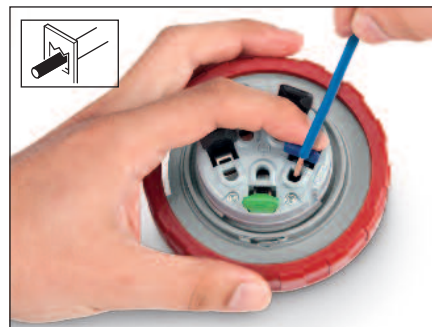
Versions: 16-32-63-125A
Plugs and connectors –
16-32-63-125A Flush
mounting plugs and
sockets – 16-32A TOP
version surface
mounting sockets.

INSULATION PERFORATING TERMINALS - FAST WIRING



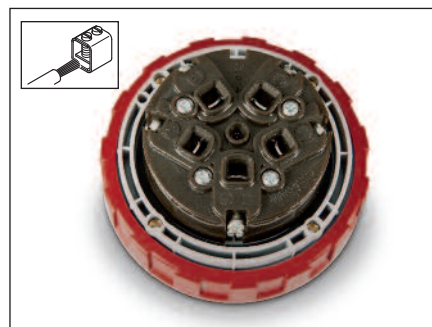
Versions: 16A Plugs
and connectors.

SPRING TERMINALS - FAST WIRING



Versions: 32A
Plugs and connectors –
16-32A
Flush mounting sockets –
16-32A TOP version
surface mounting
sockets.

MANTLE TERMINALS



Versions: 63-125A
Plugs and
connectors.



(▲) Black-coloured

Versions also available in black;
just add ".K" at the end of the catalogue number.
Example 318.1643.K



(Δ) Transparent grip

Version also available with transparent grip; just
add ".TR" at the end of the catalogue number.
Example 313.1643.TR

Industrial plugs and sockets

CONNECTORS - IP66/IP67



Poles	Hz.	Volt	Colour	h.				
					16A cable gland □ 10/40	32A cable gland □ 10/40	63A cable gland □ 6/24	125A cable gland □ 1/8
2P+E	50/60	100-130		4	318.1640 (Δ)	318.3240	318.6340	318.12540
	50/60	200-250		6	318.1643 (▲)(Δ)	318.3243 (▲)	318.6343 (▲)	318.12543 (▲)
	50/60	380-415		9	318.1648	318.3248	318.6348	318.12548
	50/60	480-500		7	318.16436	318.32436	318.63436	318.125436
	50/60	trasf.		12	318.16433	318.32433	318.63433	318.125433
	>300-500	>50		2	318.16432	318.32432	318.63432	318.125432
	c.c.	>50-250		3	318.16434	318.32434	318.63434	
	c.c.	>250		8	318.16438	318.32438	318.63438	
3P+E	50/60	100-130		4	318.1641	318.3241	318.6341	318.12541
	50/60	200-250		9	318.1644	318.3244	318.6344	318.12544
	50/60	380-415		6	318.1646 (▲)	318.3246 (▲)	318.6346 (▲)	318.12546 (▲)
	60	440-460		11	318.16465	318.32465	318.63465	318.125465
	50/60	480-500		7	318.16466	318.32466	318.63466	318.125466
	50/60	600-690		5	318.16467	318.32467	318.63467	318.125467
	50/60	380/440		3	318.16464	318.32464	318.63464	318.125464
	100-300	>50		10	318.16461	318.32461	318.63461	318.125461
	>300-500	>50		2	318.16462	318.32462	318.63462	318.125462
3P+N+E	50/60	100-130		4	318.1642	318.3242	318.6342	318.12542
	50/60	208-250		9	318.1645	318.3245	318.6345	318.12545
	50/60	346-415		6	318.1647 (▲)	318.3247 (▲)	318.6347 (▲)	318.12547 (▲)
	50/60	480-500		7	318.16476	318.32476	318.63476	318.125476
	50/60	600-690		5	318.16477	318.32477	318.63477	318.125477
	60	440-460		11	318.16475	318.32475	318.63475	318.125475
	50/60	380/440		3	318.16474	318.32474	318.63474	318.125474
	>300-500	>50		2	318.16472	318.32472	318.63472	318.125472

□ Package/Bulk Pack.



= Screw terminals



= Spring terminals (fast wiring)



= Insulation perforating terminals (fast wiring)



= Mantle terminals

SAFE-IN



OPTIMA Series



19

Industrial plugs and sockets

FLUSH MOUNTING SOCKET OUTLETS - IP44



ANGLED OUTLET
STANDARD FLANGE

SAFE-IN

FAST WIRING

Poles	Hz.	Volt	Colour	h.	ANGLED OUTLET STANDARD FLANGE		SAFE-IN	FAST WIRING	
					16A 70x87 □10/100	32A 84x106 □10/50		16A 70x87 □10/100	32A 84x106 □10/50
2P+E	50/60	100-130	Yellow	4	413.1660	413.3260	413.1660H	413.1660F	413.3260F
	50/60	200-250	Blue	6	413.1663 (▲)	413.3263 (▲)	413.1663H (▲)	413.1663F (▲)	413.3263F (▲)
	50/60	380-415	Red	9	413.1668	413.3268	413.1668H	413.1668F	413.3268F
	50/60	480-500	Black	7	413.16636	413.32636			
	50/60	trasf.	Grey	12	413.16633	413.32633			
	>300-500	>50	Green	2	413.16632	413.32632			
	c.c.	>50-250	Grey	3	413.16634	413.32634			
	c.c.	>250	Grey	8	413.16638	413.32638			
3P+E	50/60	100-130	Yellow	4	413.1661	413.3261			
	50/60	200-250	Blue	9	413.1664	413.3264	413.1664H	413.1664F	413.3264F
	50/60	380-415	Red	6	413.1666 (▲)	413.3266 (▲)	413.1666H (▲)	413.1666F (▲)	413.3266F (▲)
	60	440-460	Red	11	413.16665	413.32665			
	50/60	480-500	Black	7	413.16666	413.32666			
	50/60	600-690	Black	5	413.16667	413.32667			
	50/60	380/440	Red	3	413.16664	413.32664			
	100-300	>50	Green	10	413.16661	413.32661			
3P+N+E	>300-500	>50	Green	2	413.16662	413.32662			
	50/60	100-130	Yellow	4	413.1662	413.3262			
	50/60	208-250	Blue	9	413.1665	413.3265			
	50/60	346-415	Red	6	413.1667 (▲)	413.3267 (▲)	413.1667H (▲)	413.1667F (▲)	413.3267F (▲)
	50/60	480-500	Black	7	413.16676	413.32676			
	50/60	600-690	Black	5	413.16677	413.32677			
	60	440-460	Red	11	413.16675	413.32675			
	50/60	380/440	Red	3	413.16674	413.32674			
	>300-500	>50	Green	2	413.16672	413.32672			

□ Package/Bulk Pack.

- = Screw terminals
- = Spring terminals (fast wiring)
- = Mantle terminals



(▲) Black-coloured

Version also available in black; just add ".K" at the end of the catalogue number.
Example 413.1663.K

OPTIMA Series



ANGLED OUTLET
STANDARD FLANGE



STRAIGHT OUTLET
STANDARD FLANGE



63A

100x110
6/30



63A

100x110
6/30

413.6360

423.6360

413.6363 (▲)

423.6363 (▲)

413.6368

423.6368

413.63636

423.63636

413.63633

423.63633

413.63632

423.63632

413.63634

423.63634

413.63638

423.63638

413.6361

423.6361

413.6364

423.6364

413.6366 (▲)

423.6366 (▲)

413.63665

423.63665

413.63666

423.63666

413.63667

423.63667

413.63664

423.63664

413.63661

423.63661

413.63662

423.63662

413.6362

423.6362

413.6365

423.6365

413.6367 (▲)

423.6367 (▲)

413.63676

423.63676

413.63677

423.63677

413.63675

423.63675

413.63674

423.63674

413.63672

423.63672



Accessories

Empty boxes for creating surface mounting versions, page 31



Auxiliary contact

For flush mounting sockets.

Industrial plugs and sockets

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67



ANGLED OUTLET
STANDARD FLANGE

SAFE-IN

FAST WIRING

Poles	Hz.	Volt	Colour	h.	ANGLED OUTLET STANDARD FLANGE		SAFE-IN	FAST WIRING	
					16A 70x87 □10/100	32A 84x106 □10/50		16A 70x87 □10/100	32A 84x106 □10/50
2P+E	50/60	100-130		4	418.1660	418.3260	418.1660H	418.1660F	418.3260F
	50/60	200-250		6	418.1663 (▲)	418.3263 (▲)	418.1663H (▲)	418.1663F (▲)	418.3263F (▲)
	50/60	380-415		9	418.1668	418.3268	418.1668H	418.1668F	418.3268F
	50/60	480-500		7	418.16636	418.32636			
	50/60	trasf.		12	418.16633	418.32633			
	>300-500	>50		2	418.16632	418.32632			
	c.c.	>50-250		3	418.16634	418.32634			
	c.c.	>250		8	418.16638	418.32638			
3P+E	50/60	100-130		4	418.1661	418.3261			
	50/60	200-250		9	418.1664	418.3264	418.1664H	418.1664F	418.3264F
	50/60	380-415		6	418.1666 (▲)	418.3266 (▲)	418.1666H (▲)	418.1666F (▲)	418.3266F (▲)
	60	440-460		11	418.16665	418.32665			
	50/60	480-500		7	418.16666	418.32666			
	50/60	600-690		5	418.16667	418.32667			
	50/60	380/440		3	418.16664	418.32664			
	100-300	>50		10	418.16661	418.32661			
3P+N+E	>300-500	>50		2	418.16662	418.32662			
	50/60	100-130		4	418.1662	418.3262			
	50/60	208-250		9	418.1665	418.3265			
	50/60	346-415		6	418.1667 (▲)	418.3267 (▲)	418.1667H (▲)	418.1667F (▲)	418.3267F (▲)
	50/60	480-500		7	418.16676	418.32676			
	50/60	600-690		5	418.16677	418.32677			
	60	440-460		11	418.16675	418.32675			
	50/60	380/440		3	418.16674	418.32674			
	>300-500	>50		2	418.16672	418.32672			

□ Package/Bulk Pack.

- = Screw terminals
- = Spring terminals (fast wiring)
- = Mantle terminals



(▲) Black-coloured

Version also available in black; just add ".K" at the end of the catalogue number.
Example 413.1663.K

OPTIMA Series


ANGLED OUTLET
STANDARD FLANGE

STRAIGHT OUTLET
STANDARD FLANGE

			
63A	125A	63A	125A
100x110 □ 6/30	114x114 □ 1/10	100x110 □ 1/10	114x114 □ 1/10
418.6360	418.12560	428.6360	428.12560
418.6363	418.12563	428.6363 (▲)	428.12563 (▲)
418.6368	418.12568	428.6368	428.12568
418.63636	418.125636	428.63636	428.125636
418.63633	418.125633	428.63633	428.125633
418.63632	418.125632	428.63632	428.125632
418.63634	418.125634	428.63634	428.125634
418.63638	418.125638	428.63638	428.125638
418.6361	418.12561	428.6361	428.12561
418.6364	418.12564	428.6364	428.12564
418.6366	418.12566	428.6366 (▲)	428.12566 (▲)
418.63665	418.125665	428.63665	428.125665
418.63666	418.125666	428.63666	428.125666
418.63667	418.125667	428.63667	428.125667
418.63664	418.125664	428.63664	428.125664
418.63661	418.125661	428.63661	428.125661
418.63662	418.125662	428.63662	428.125662
418.6362	418.12562	428.6362	428.12562
418.6365	418.12565	428.6365	428.12565
418.6367	418.12567	428.6367 (▲)	428.12567 (▲)
418.63676	418.125676	428.63676	428.125676
418.63677	418.125677	428.63677	428.125677
418.63675	418.125675	428.63675	428.125675
418.63674	418.125674	428.63674	428.125674
418.63672	418.125672	428.63672	428.125672



Accessories

Empty boxes for creating surface mounting versions, page 31



Auxiliary contact

For flush mounting sockets.

Industrial plugs and sockets

SURFACE MOUNTING SOCKET OUTLETS



					IP44		SAFE-IN	FAST WIRING	
									
Poles	Hz.	Volt	Colour	h.	16A	32A	16A	16A	32A
					M20/M25 □ 10/40	M32 □ 1/10	M20/M25 □ 10/40	M20/M25 □ 10/40	M32 □ 1/10
2P+E	50/60	100-130		4	513.1650T	513.3250T	513.1650TH	513.1650TF	513.3250TF
	50/60	200-250		6	513.1653T	513.3253T	513.1653TH	513.1653TF	513.3253TF
	50/60	380-415		9	513.1658T	513.3258T	513.1658TH	513.1658TF	513.3258TF
	50/60	480-500		7	513.16536T	513.32536T			
	50/60	trasf.		12	513.16533T	513.32533T			
	>300-500	>50		2	513.16532T	513.32532T			
	c.c.	>50-250		3	513.16534T	513.32534T			
	c.c.	>250		8	513.16538T	513.32538T			
3P+E	50/60	100-130		4	513.1651T	513.3251T			
	50/60	200-250		9	513.1654T	513.3254T	513.1654TH	513.1654TF	513.3254TF
	50/60	380-415		6	513.1656T	513.3256T	513.1656TH	513.1656TF	513.3256TF
	60	440-460		11	513.16565T	513.32565T			
	50/60	480-500		7	513.16566T	513.32566T			
	50/60	600-690		5	513.16567T	513.32567T			
	50/60	380/440		3	513.16564T	513.32564T			
	100-300	>50		10	513.16561T	513.32561T			
	>300-500	>50		2	513.16562T	513.32562T			
3P+N+E	50/60	100-130		4	513.1652T	513.3252T			
	50/60	208-250		9	513.1655T	513.3255T			
	50/60	346-415		6	513.1657T	513.3257T	513.1657TH	513.1657TF	513.3257TF
	50/60	480-500		7	513.16576T	513.32576T			
	50/60	600-690		5	513.16577T	513.32577T			
	60	440-460		11	513.16575T	513.32575T			
	50/60	380/440		3	513.16574T	513.32574T			
	>300-500	>50		2	513.16572T	513.32572T			

□ Package/Bulk Pack.

IP44 version: standard supply cable sleeve.



= Screw terminals



= Spring terminals (fast wiring)

OPTIMA-TOP Series

OPTIMA-BASE Series

IP66/IP67		SAFE-IN 			IP44	
						
16A	32A	16A	16A	32A	16A	32A
M20/M25 10/40	M32 1/10	M20/M25 10/40	M20/M25 10/40	M32 1/10	M20/M25 10/40	M32 1/10
518.1650T	518.3250T	518.1650TH	518.1650TF	518.3250TF	513.1650	513.3250
518.1653T	518.3253T	518.1653TH	518.1653TF	518.3253TF	513.1653	513.3253
518.1658T	518.3258T	518.1658TH	518.1658TF	518.3258TF		
518.16536T	518.32536T					
518.16533T	518.32533T					
518.16532T	518.32532T					
518.16534T	518.32534T					
518.16538T	518.32538T					
518.1651T	518.3251T					
518.1654T	518.3254T	518.1654TH	518.1654TF	518.3254TF		
518.1656T	518.3256T	518.1656TH	518.1656TF	518.3256TF	513.1656	513.3256
518.16565T	518.32565T					
518.16566T	518.32566T					
518.16567T	518.32567T					
518.16564T	518.32564T			518.32564TF		
518.16561T	518.32561T					
518.16562T	518.32562T					
518.1652T	518.3252T					
518.1655T	518.3255T					
518.1657T	518.3257T	518.1657TH	518.1657TF	518.3257TF	513.1657	513.3257
518.16576T	518.32576T					
518.16577T	518.32577T					
518.16575T	518.32575T					
518.16574T	518.32574T					
518.16572T	518.32572T					

Industrial plugs and sockets

■ SURFACE MOUNTING SOCKET OUTLETS

					 IP44 STRAIGHT BOX (■)		 IP44 ANGLED BOX (■)	
Poles	Hz.	Volt	Colour	h.	16A	32A	16A	32A
					PG16/M20 □ 10/50	PG21/M25 □ 10/40	PG16/M20 □ 10/50	PG21/M25 □ 10/40
2P+E	50/60	100-130		4	522.1650	522.3250	512.1650	512.3250
	50/60	200-250		6	522.1653	522.3253	512.1653	512.3253
	50/60	380-415		9	522.1658	522.3258	512.1658	512.3258
	50/60	480-500		7				
	50/60	trasf.		12				
	>300-500	>50		2				
	c.c.	>50-250		3				
	c.c.	>250		8				
3P+E	50/60	100-130		4	522.1651	522.3251	512.1651	512.3251
	50/60	200-250		9	522.1654	522.3254	512.1654	512.3254
	50/60	380-415		6	522.1656	522.3256	512.1656	512.3256
	60	440-460		11				
	50/60	480-500		7				
	50/60	600-690		5				
	50/60	380/440		3				
	100-300	>50		10				
3P+N+E	>300-500	>50		2				
	50/60	100-130		4	522.1652	522.3252	512.1652	512.3252
	50/60	208-250		9	522.1655	522.3255	512.1655	512.3255
	50/60	346-415		6	522.1657	522.3257	512.1657	512.3257
	50/60	480-500		7				
	50/60	600-690		5				
	60	440-460		11				
	50/60	380/440		3				
	>300-500	>50		2				

□ Package/Bulk Pack.



= Screw terminals

(■) Cable sleeve provided



= Spring terminals (fast wiring)



IP66/IP67



IP66/IP67



IP66/IP67

STRAIGHT BOX		ANGLED BOX		METRIC ENTRY (▲)	
16A	32A	16A	32A	63A	125A
PG16/M20 □ 10/50	PG21/M25 □ 10/40	PG16/M20 □ 10/50 ⁽¹⁾	PG21/M25 □ 10/40	M32 □ 6/12	M63 □ 1/8
527.1650	527.3250	517.1650	517.3250	515.M6350	
527.1653	527.3253	517.1653	517.3253	515.M6353	515.M12553
527.1658	527.3258	517.1658	517.3258	515.M6358	
				515.M63536	
				515.M63533	
				515.M63534	
				515.M63538	
527.1651	527.3251	517.1651	517.3251	515.M6351	515.M12551
527.1654	527.3254	517.1654	517.3254	515.M6354	515.M12554
527.1656	527.3256	517.1656	517.3256	515.M6356	515.M12556
				515.M63565	515.M125565
				515.M63566	515.M125566
				515.M63567	515.M125567
527.1652	527.3252	517.1652	517.3252	515.M6352	515.M12552
527.1655	527.3255	517.1655	517.3255	515.M6355	515.M12555
527.1657	527.3257	517.1657	517.3257	515.M6357	515.M12557
				515.M63576	515.M125576
				515.M63577	515.M125577
				515.M63575	515.M125575

⁽¹⁾ 3P+N+E= □ 10/40

(▲) Cable gland provided

Industrial plugs and sockets

■ SURFACE MOUNTING SOCKET OUTLETS - IP44

OPTIMA-COMBI
Series



Without protection

Industrial socket	Poles	Volt	Colour	h	📦	⊕ ⊖	⊕ ⊖ (*)	⊕ ⊖	⊕ ⊖
16A	2P+E	200-250	■	6	1/10	513.1653-PN	513.1653-BN	513.1653-FN	513.1653-LN
	3P+E	380-415	■	6	1/10	513.1656-PN	513.1656-BN	513.1656-FN	513.1656-LN
	3P+N+E	346-415	■	6	1/10	513.1657-PN	513.1657-BN	513.1657-FN	513.1657-LN



With protection: fuse

Industrial socket	Poles	Volt	Colour	h	📦	⊕ ⊖	⊕ ⊖ (*)	⊕ ⊖	⊕ ⊖
32A	2P+E	200-250	■	6	1/10	513.3253-PF	513.3253-BF	513.3253-FF	513.3253-LF
	3P+E	380-415	■	6	1/10	513.3256-PF	513.3256-BF	513.3256-FF	513.3256-LF
	3P+N+T	346-415	■	6	1/10	513.3257-PF	513.3257-BF	513.3257-FF	513.3257-LF

- 📦 Package/Bulk Pack.

- Household sockets protected by standard supplied 10A fuse.

(*) BS standard sockets provided with 10A fuse protection.

- Available in further domestic sockets standard (contact technical service).

- Cable sleeve provided.

- Solution already wired up to the power supply terminal board.

PLUGS WITH PHASE INVERTER

OPTIMA-REVERSE Series

Poles	Hz.	Volt	Colour	h.	IP44		IP66/IP67	
					16A	32A	16A	32A
					cable gland 10/50	cable gland 10/40	cable gland 10/40	cable gland 10/40
3P+E	50/60	380-415		6	213.1636RV	213.3236RV	218.1636RV	218.3236RV
3P+N+E	50/60	346-415		6	213.1637RV	213.3237RV	218.1637RV	218.3237RV

FLUSH MOUNTING APPLIANCE INLETS WITH PHASE INVERTER

OPTIMA-REVERSE Series

Poles	Hz.	Volt	Colour	h.	IP44		IP66/IP67	
					16A	32A	16A	32A
					75x75 10/50	75x75 10/50 ⁽¹⁾	75x75 10/50	75x75 10/50 ⁽¹⁾
3P+E	50/60	380-415		6	243.1696RV	243.3296RV	248.1696RV	248.3296RV
3P+N+E	50/60	346-415		6	243.1697RV	243.3297RV	248.1697RV	248.3297RV

10 Package/Bulk Pack.

⁽¹⁾ 3P+N+E = 10/40

Industrial plugs and sockets

PLUGS - IP66/IP67 - HEAVY DUTY

OPTIMA-HD Series



Poles	Hz.	Volt	Colour	h	16A		32A		63A		125A	
					cable gland □ 10/40		cable gland □ 10/40		cable gland □ 6/24		cable gland □ 1/8	
2P+E	50/60	200-250	■	6	218.1633.KX	218.3233.KX	218.6333.KX	218.12533.KX	218.6333.KX	218.12533.KX	218.6333.KX	218.12533.KX
3P+E	50/60	380-415	■	6	218.1636.KX	218.3236.KX	218.6336.KX	218.12536.KX	218.6336.KX	218.12536.KX	218.6336.KX	218.12536.KX
	50...60	380...440	■	3	218.16364.KX	218.32364.KX	218.63364.KX	218.125364.KX	218.63364.KX	218.125364.KX	218.63364.KX	218.125364.KX
3P+N+E	50/60	346-415	■	6	218.1637.KX	218.3237.KX	218.6337.KX	218.12537.KX	218.6337.KX	218.12537.KX	218.6337.KX	218.12537.KX

Other earth clock positions (h) available on request.
Available special versions with twisted cable entries.

CONNECTORS - IP66/IP67 - HEAVY DUTY

OPTIMA-HD Series



Poles	Hz.	Volt	Colour	h	16A		32A		63A		125A	
					cable gland □ 10/40		cable gland □ 10/40		cable gland □ 6/24		cable gland □ 1/8	
2P+E	50/60	200-250	■	6	318.1633.KX	318.3233.KX	318.6333.KX	318.12533.KX	318.6333.KX	318.12533.KX	318.6333.KX	318.12533.KX
3P+E	50/60	380-415	■	6	318.1636.KX	318.3236.KX	318.6336.KX	318.12536.KX	318.6336.KX	318.12536.KX	318.6336.KX	318.12536.KX
	50...60	380...440	■	3	318.16364.KX	318.32364.KX	318.63364.KX	318.125364.KX	318.63364.KX	318.125364.KX	318.63364.KX	318.125364.KX
3P+N+E	50/60	346-415	■	6	318.1637.KX	318.3237.KX	318.6337.KX	318.12537.KX	318.6337.KX	318.12537.KX	318.6337.KX	318.12537.KX

Other earth clock positions (h) available on request.
Available special versions with twisted cable entries.



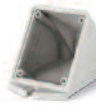
Also available in EX-versions.
See Optima-EX and Optima-EX[GD]
catalogues.

ACCESSORIES

Description							
Cap for 32A plugs – IP67		10/100	570.90324				
Entry-exit terminal board for TOP version - 5 poles 6mm²		10/100	654.0352				
Threaded cable sleeve IP55	M20	100/1000	805.5020				
	M25	100/1000	805.5025				
	M32	100/1000	805.5032				
Flange 75x75mm on 84x106mm			654.0108				
Auxiliary contact 16/32 NA			654.0391				
Auxiliary contact 16/32 NC			654.0392				
Auxiliary contact 63/125 NA			654.0393				
Auxiliary contact 63/125 NC			654.0394				

 Package/Bulk Pack.

EMPTY SURFACE MOUNTING BOXES - IP67

Outlet	Cable Inlet	Suitable for sockets	Flange dim (mm)	Cable Inlet		   
Straight box	Knockout hole	16A IP44/IP67	70x87	PG16/M20	10	570.0016 (*)
		32A IP44/IP67	84x106	PG21/M25	10	570.0032 (*)
Angled box	Knockout hole	16A IP44/IP67	70x87	PG16/M20	10	570.0116
		32A IP44/IP67	84x106	PG21/ M25	10	570.0132
	Threaded	63A IP67	100X110	M32	6	570.0163
		125A IP67	114X114	M63	6	570.0125

 Package/Bulk Pack.

- Supplied with socket fastening screws.
- Screw cap with seal.

(*) Suitable for the sealing caps

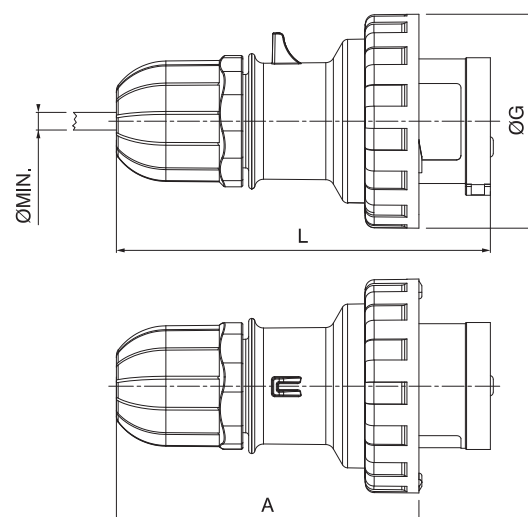
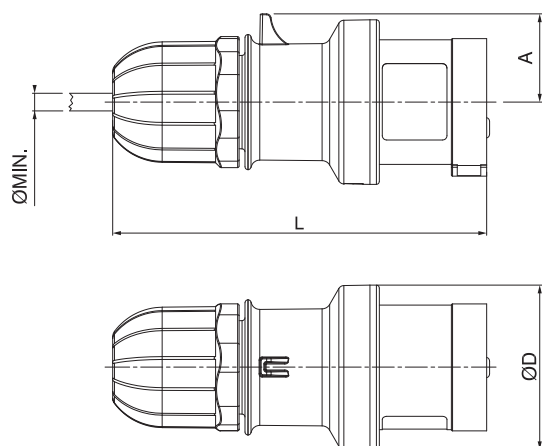
(▼) Cable sleeve provided

(●) Cable gland provided

OPTIMA Series

DIMENSIONS

PLUGS 16-32-63-125A

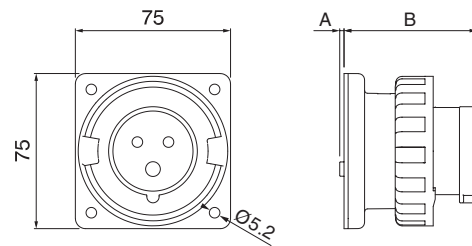
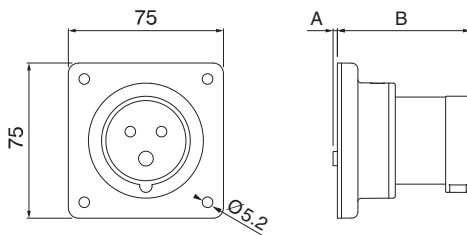
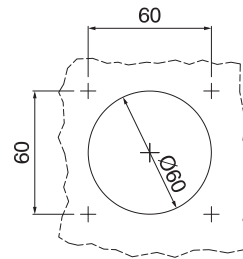
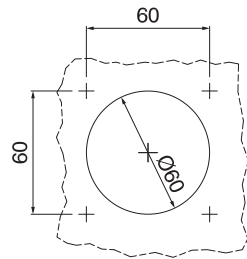


IP44		A	Ø D	L Min	Ø Min
16A	2P+E	30	56	128	6
	3P+E	34	60	135	6
	3P+N+E	38	65	153	9
32A	2P+E	40	65	162	9
	3P+E	40	65	162	9
	3P+N+E	45	73	176	13
63A	2P+E	50	102	220	17
	3P+E	50	102	220	17
	3P+N+E	50	102	220	17

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	103	73	128	6
	3P+E	110	81	135	6
	3P+N+E	129	88	153	9
32A	2P+E	131	93	162	9
	3P+E	131	93	162	9
	3P+N+E	145	101	176	13
63A	2P+E	160	112	220	17
	3P+E	160	112	220	17
	3P+N+E	160	112	220	17
125A	2P+E	202	128	272	26
	3P+E	202	128	272	26
	3P+N+E	202	128	272	26

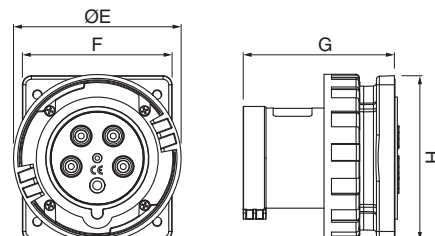
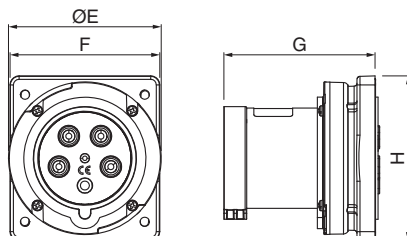
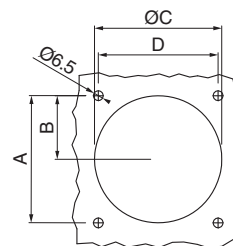
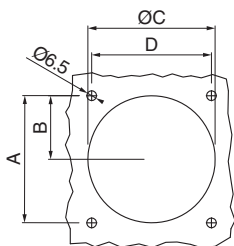
(Dimension in mm)

APPLIANCE INLETS 16-32A



IP44 - IP66/IP67		A	B
16A	2P+E	2	65
	3P+E	2	65
	3P+N+E	2	65
32A	2P+E	19	73
	3P+E	19	73
	3P+N+E	19	73

APPLIANCE INLETS 63-125A

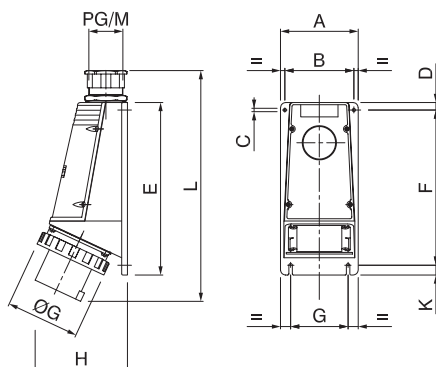


IP44		A	B	ØC	D	ØE	F	G	H
63A	2P+E	85	42.5	85	80	102	100	101	110
	3P+E	85	42.5	85	80	102	100	101	110
	3P+N+E	85	42.5	85	80	102	100	101	110

IP66/IP67		A	B	ØC	D	ØE	F	G	H
63A	2P+E	85	42.5	85	80	112	100	101	110
	3P+E	85	42.5	85	80	112	100	101	110
	3P+N+E	85	42.5	85	80	112	100	101	110
125A	2P+E	100	50	95	100	128.5	114	113.5	114
	3P+E	100	50	95	100	128.5	114	113.5	114
	3P+N+E	100	50	95	100	128.5	114	113.5	114

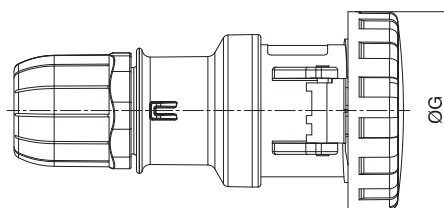
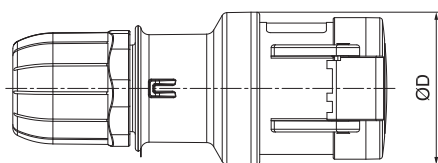
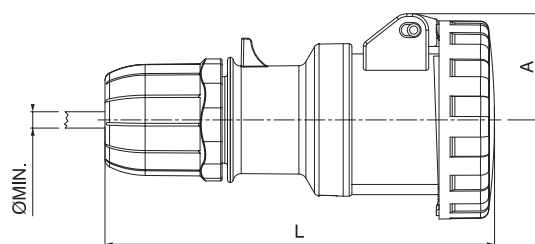
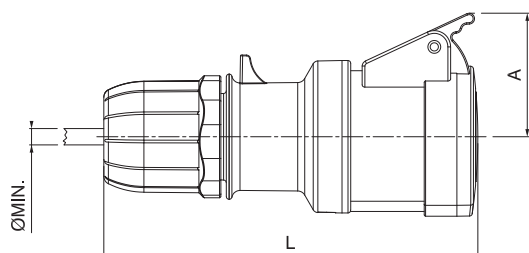
DIMENSIONS

SURFACE MOUNTING APPLIANCE INLETS 63-125A



IP66/IP67		A	B	ØC	ØD	E	F	ØG	H	I
63A	2P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+E	85	80	79	4.5	110	100	112	88.5	44.5
	3P+N+E	80	85	79	4.5	110	100	112	88.5	44.5
125A	2P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+E	100	100	90	6	114	114	128.5	97	53.5
	3P+N+E	100	100	90	6	114	114	128.5	97	53.5

CONNECTORS 16-32-63-125A

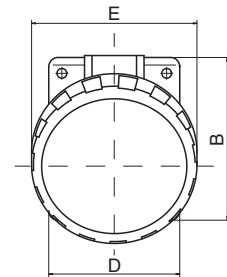
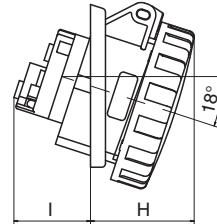
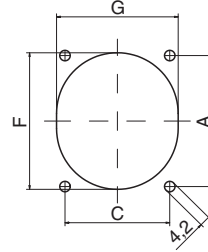
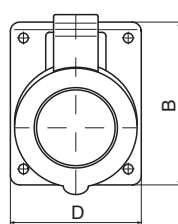
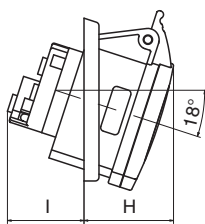
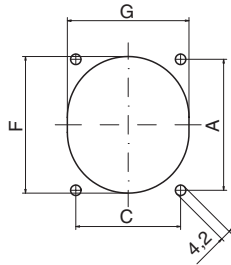


IP44		A	Ø D	L Min	Ø Min
16A	2P+E	46	56	138	6
	3P+E	49	60	145	6
	3P+N+E	54	65	165	9
32A	2P+E	54	65	175	9
	3P+E	54	65	175	9
	3P+N+E	59	73	190	13
63A	2P+E	73	102	230	17
	3P+E	73	102	230	17
	3P+N+E	73	102	230	17

IP66/IP67		A	Ø G	L Min	Ø Min
16A	2P+E	39	73	141	6
	3P+E	43	81	148	6
	3P+N+E	51	88	168	9
32A	2P+E	56	93	178	9
	3P+E	56	93	178	9
	3P+N+E	52	101	195	13
63A	2P+E	57,5	112	230	17
	3P+E	57,5	112	230	17
	3P+N+E	57,5	112	230	17
125A	2P+E	64,25	128	288	26
	3P+E	64,25	128	288	26
	3P+N+E	64,25	128	288	26

(Dimension in mm)

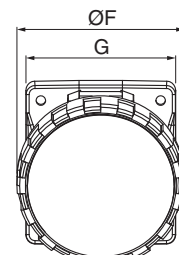
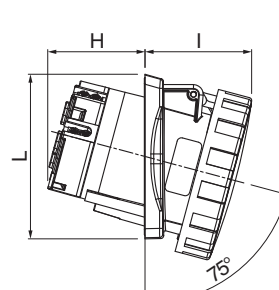
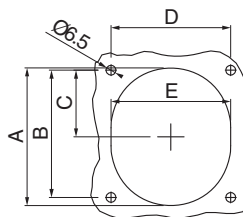
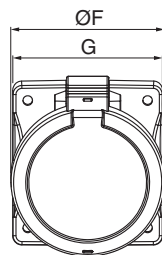
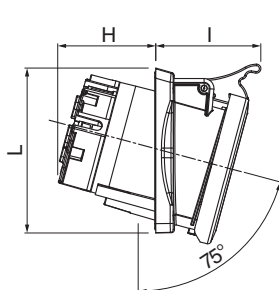
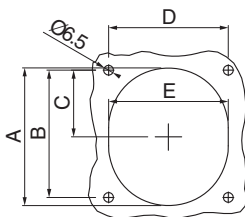
FLUSH MOUNTING SOCKET OUTLETS ANGLED 16-32A



IP44		A	B	C	D	F	G	H	I
16A	2P+E	70	87	56	70	73	65	45	40
	3P+E	70	87	56	70	73	65	46	40
	3P+N+E	70	87	56	70	73	65	48	41
32A	2P+E	90	106	68	84	87	76	52	60
	3P+E	90	106	68	84	87	76	52	60
	3P+N+E	90	106	68	84	87	76	54	61

IP66/IP67		A	B	C	D	E	F	G	H	I
16A	2P+E	70	87	56	70	73	73	65	52	40
	3P+E	70	87	56	70	81	73	65	54	40
	3P+N+E	70	87	56	70	88	73	65	55	41
32A	2P+E	90	106	68	84	93	87	76	61	60
	3P+E	90	106	68	84	93	87	76	61	60
	3P+N+E	90	106	68	84	101	87	76	63	61

FLUSH MOUNTING SOCKET OUTLETS ANGLED 63-125A

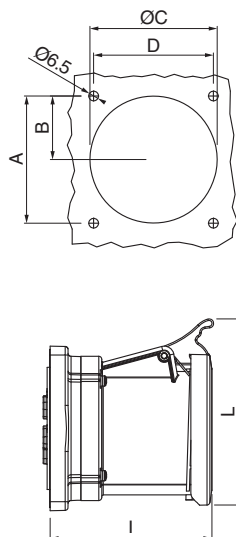


IP44		A	B	ØC	D	ØE	F	G	H	I	L
63A	2P+E	92	85	44.5	80	80	102.7	100	65	70	110
	3P+E	92	85	44.5	80	80	102.7	100	65	70	110
	3P+N+E	92	85	44.5	80	80	102.7	100	65	70	110

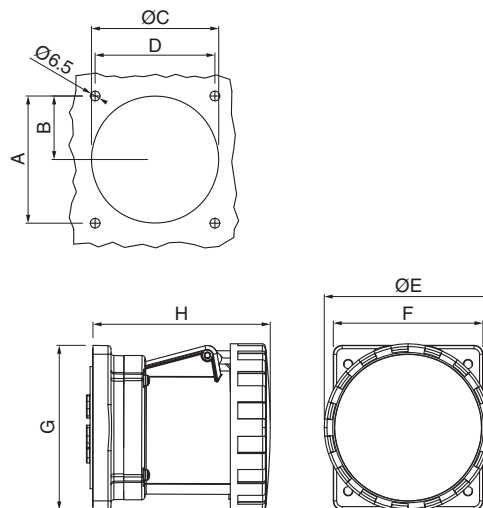
IP66/IP67		A	B	C	D	E	ØF	G	H	I	L
63A	2P+E	92	85	44.5	80	80	112	100	65	71.2	110
	3P+E	92	85	44.5	80	80	112	100	65	71.2	110
	3P+N+E	92	85	44.5	80	80	112	100	65	71.2	110
125A	2P+E	104	90	45	90	92	128.5	114	75.4	85.7	114.5
	3P+E	104	90	45	90	92	128.5	114	75.4	85.7	114.5
	3P+N+E	104	90	45	90	92	128.5	114	75.4	85.7	114.5

DIMENSIONS

FLUSH MOUNTING SOCKET OUTLETS STRAIGHT 63-125A

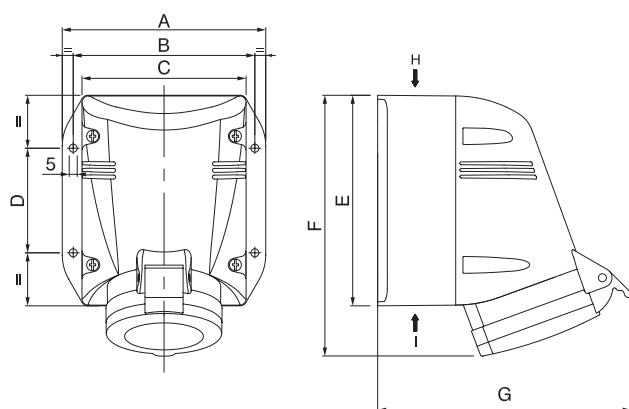


IP44		A	B	ØC	D	ØE	F	G	H	I	L
	2P+E	85	42.5	85	80	102.7	100	110	128.2	108	124.4
63A	3P+E	85	42.5	85	80	102.7	100	110	128.2	108	124.4
	3P+N+E	85	42.5	85	80	102.7	100	110	128.2	108	124.4

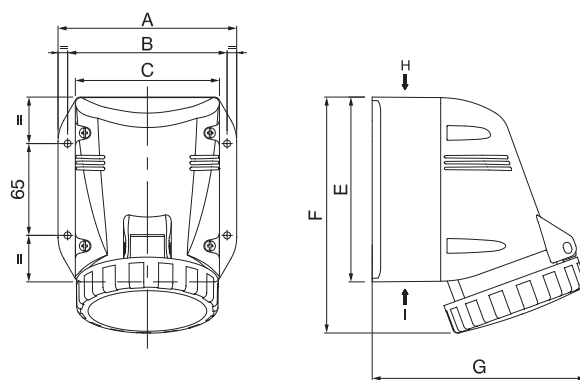


IP66/IP67		A	B	ØC	D	ØE	F	G	H
	2P+E	85	42.5	85	80	112	100	110	118.3
63A	3P+E	85	42.5	85	80	112	100	110	118.3
	3P+N+E	85	42.5	85	80	112	100	110	118.3
	2P+E	100	50	95	100	128.5	114	114	130
125A	3P+E	100	50	95	100	128.5	114	114	130
	3P+N+E	100	50	95	100	128.5	114	114	130

TOP VERSION 16-32A



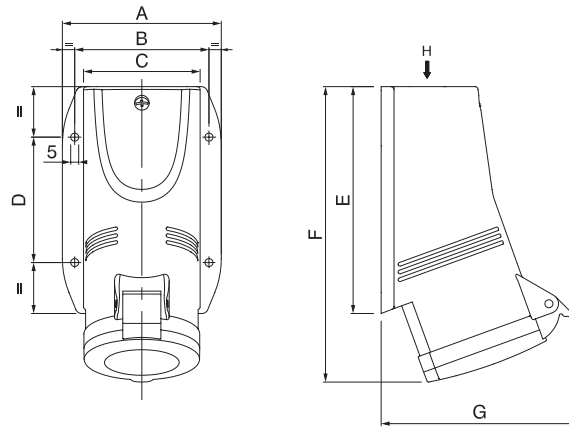
IP44		A	B	C	D	E	F	G	H	I
	2P+E	94	80	70	/	96	126	119	M20X1.5	M20X1.5
16A	3P+E	109	97	85	51	112	140	140	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	143	141	M25X1.5	2X M25X1.5
	2P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
32A	3P+E	126	113	102	65	130	159	156	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	162	158	M32X1.5	2X M32X1.5



IP66/IP67		A	B	C	D	E	F	G	H	I
	2P+E	94	80	70	/	96	131	110	M20X1.5	M20X1.5
16A	3P+E	109	97	85	51	112	146	134	M25X1.5	2X M25X1.5
	3P+N+E	109	97	85	51	112	150	135	M25X1.5	2X M25X1.5
	2P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
32A	3P+E	126	113	102	65	130	166	151	M32X1.5	2X M32X1.5
	3P+N+E	126	113	102	65	130	167	152	M32X1.5	2X M32X1.5

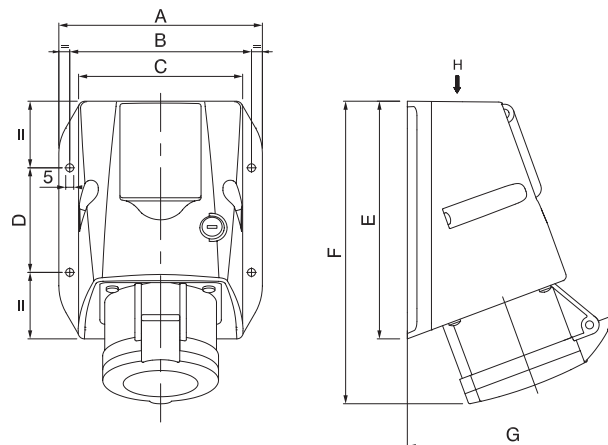
(Dimension in mm)

BASE VERSION 16-32A



IP44		A	B	C	D	E	F	G	H
16A	2P+E	76	63	52	/	103	133	98	M20X1.5
	3P+E	91	76	65	60	123	155	103	M25X1.5
	3P+N+E	91	76	65	60	123	157	110	M25X1.5
32A	2P+E	99	84	72	78	141	182	115	M32X1.5
	3P+E	99	84	72	78	141	182	115	M32X1.5
	3P+N+E	99	84	72	78	141	184	122	M32X1.5

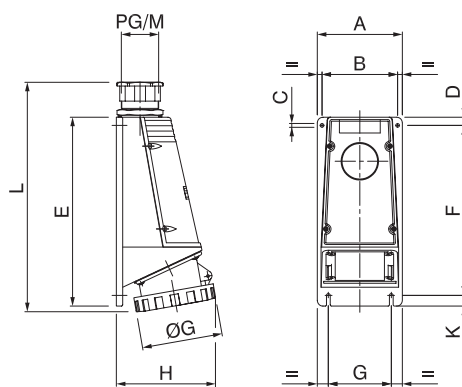
COMBI VERSION 16-32A



IP44		A	B	C	D	E	F	G	H
16A	2P+E	126	113	102	65	148	188	131	M32X1.5
	3P+E	126	113	102	65	148	188	131	M32X1.5
	3P+N+E	126	113	102	65	148	188	131	M32X1.5
32A	2P+E	126	113	102	65	148	188	131	M32X1.5
	3P+E	126	113	102	65	148	188	131	M32X1.5
	3P+N+E	126	113	102	65	148	188	131	M32X1.5

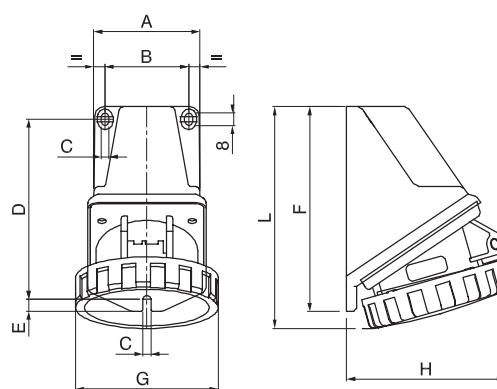
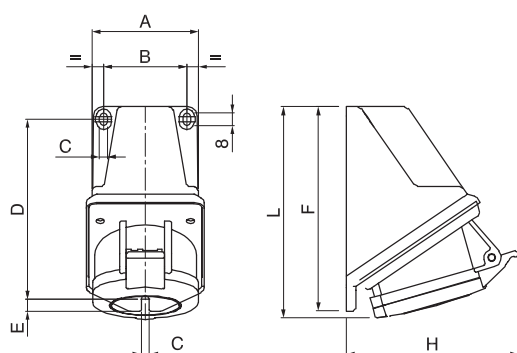
DIMENSIONS

REDUCED FLANGE FLUSH MOUNTING SOCKET OUTLETS 63-125A



	IP66/IP67	A	B	C	D	E	F	G	H	K	L	PG/M	ØG
63A	2P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+E	115	96	6	10	235	205	80	125	15	267	29/32	112
	3P+N+E	115	96	6	10	235	205	80	125	15	267	29/32	112
125A	2P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+E	135	120	6	13	300	270	100	157	17	346	48/63	128
	3P+N+E	135	120	6	13	300	270	100	157	17	346	48/63	128

SURFACE MOUNTING SOCKET OUTLETS - ANGLED BOX 16-32A

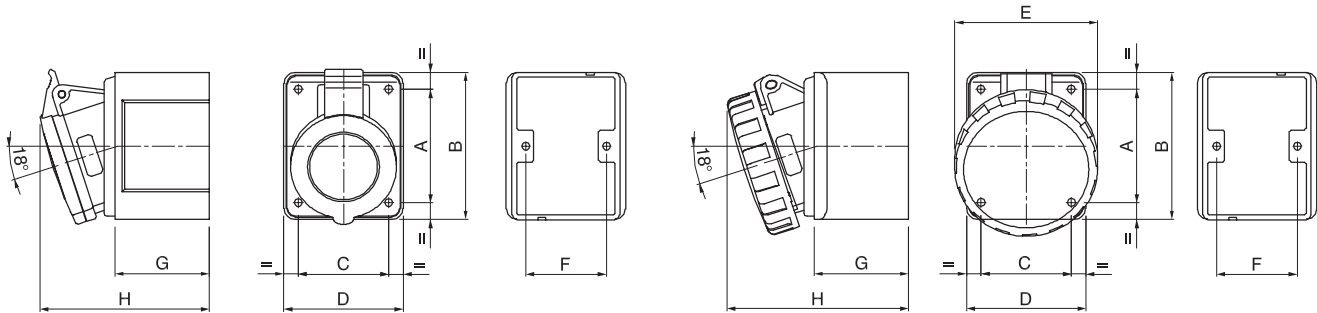


IP44	A	B	C	D	E	F	H	L
2P+E	65	52	5	112	7.5	127	99	128
16A 3P+E	65	52	5	112	7.5	127	102	131
3P+N+E	65	52	5	112	7.5	127	107	133
2P+E	80	66	5	121	7.5	137	116	141
32A 3P+E	80	66	5	121	7.5	137	116	141
3P+N+E	80	66	5	121	7.5	137	120	143

IP66/IP67	A	B	C	D	E	F	G	H	I
2P+E	65	52	5	112	7.5	127	73	91	134
16A 3P+E	65	52	5	112	7.5	127	81	95	135
3P+N+E	65	52	5	112	7.5	127	88	98	136
2P+E	80	66	5	121	7.5	137	93	112	147
32A 3P+E	80	66	5	121	7.5	137	93	112	147
3P+N+E	80	66	5	121	7.5	137	101	113	149

(Dimension in mm)

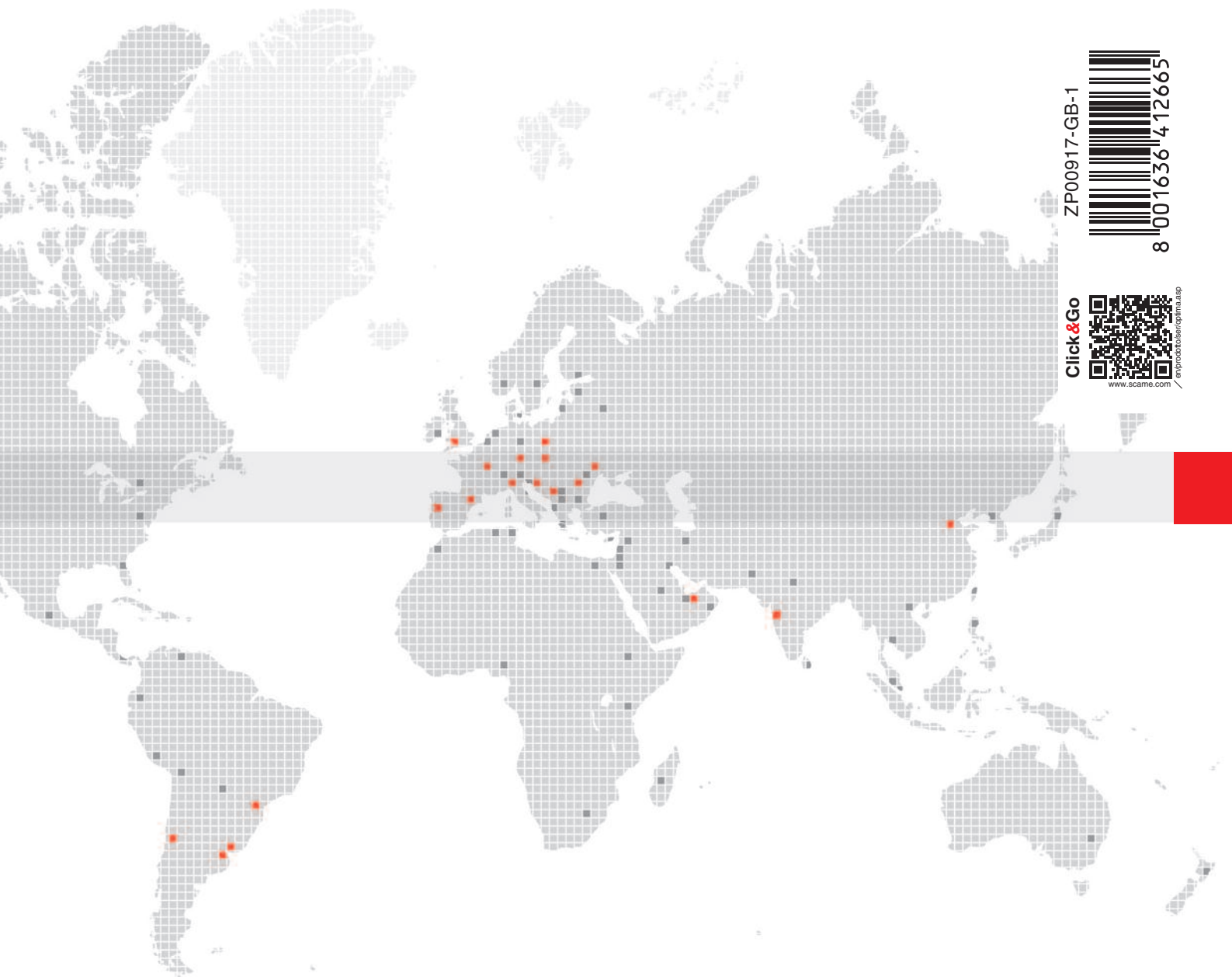
SURFACE MOUNTING SOCKET OUTLETS - STRAIGHT BOX 16-32A



IP44		A	B	C	D	F	G	H
	2P+E	70	91	56	74	50	59	102
16A	3P+E	70	91	56	74	50	59	103
	3P+N+E	70	91	56	74	50	59	105
	2P+E	90	111	68	89	62	72	123
32A	3P+E	90	111	68	89	62	72	123
	3P+N+E	90	111	68	89	62	72	125

IP66/IP67		A	B	C	D	E	F	G	H
	2P+E	70	91	56	74	73	50	59	110
16A	3P+E	70	91	56	74	81	50	59	111
	3P+N+E	70	91	56	74	88	50	59	113
	2P+E	90	111	68	89	93	62	72	131
32A	3P+E	90	111	68	89	93	62	72	131
	3P+N+E	90	111	68	89	101	62	72	134

(Dimension in mm)



ZP00917-GB-1



Click&Go



www.scame.com

SCAME-ARGENTINA Argentina
SCAME-BRASIL Brazil
SCAME-CHILE Chile
SCAME-TOP China
SCAME-HR Croatia
SCAME-CZ Czech Republic
SOBIEM-SCAME France
SCAME-INDIA India
SCAME-POLSKA Poland
SCAME-PORTUGAL Portugal
SCAME-RO Romania
SCAME-SK Slovakia
SCAME-SPAIN Spain
SCAME-USA U.A.E.
SCAME-UK United Kingdom
SCAME-UY Uruguay
SCAME-UA Ukraine

SCAME
electrical solutions

ScameOnLine
www.scame.com
export@scame.com

SCAME PARRE S.p.A.
VIA COSTA ERTA, 15
24020 PARRE (BG) ITALY
TEL. +39 035 705000
FAX +39 035 703122

