



Sockets, plugs and cables



Standard power plug for IP44 connection to the dock

IP44

Made in accordance with EC standards; **polycarbonate, UV ray stabilized** body, input fitted with wire sleeve and built-in cable stopper; suitable for connecting onto the dock.



Code	Version	Plug
14.335.01	3 wire, male	16 A
14.335.02	3 wire, male	32 A
14.336.01	3 wire, female with cover	16 A
14.336.02	3 wire, female with cover	32 A



Standard power plug for connection to the dock - IP67

IP67

Made in accordance with CE standards. **UV-stabilized polycarbonate** body, input fitted with wire sleeve and built-in cable stopper. Suitable for connection to the dock. Watertight up to 1 metre depth in water.



Code	Version	Plug
14.335.11	3 wire, male	16 A
14.335.12	3 wire, male	32 A
14.335.03	5 wire, male	63 A
14.336.11	3 wire, female with cover	16 A
14.336.12	3 wire, female with cover	32 A
14.336.03	5 wire, female	63 A

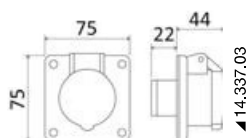


12/24 V socket/plug

IP44

With screw terminals. Cable crush protection. Standard contacts.

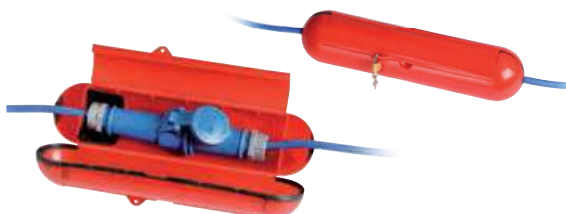
Code	Poles	Max A	Type
14.337.01	2	16	Plug
14.337.02	2	16	Socket
14.337.03	2	16	Socket to be mounted flush with the wall



Twin socket-plug for connection to the dock power supply

Equipped with 1 plug + 2 16 A sockets. IP67 watertight.

Code	Capacity	V
14.337.16	16A	220



Watertight cover for electrical connections

Made of shock-resistant plastic, it makes your electrical connections watertight. Fitted with padlock.

Code	For sockets A	mm	Padlock holder
14.340.00	16	Ø 95 x 365	Yes



Watertight quayside converter for Schuko sockets

It turns quayside sockets (16A female) into civil sockets (Schuko with 3 small or 3 big poles). Resistant to the rain, IP44 protection degree, rear cable patented closure system.

Code	Description	Capacity	V
14.338.00	Watertight quayside converter for Schuko sockets	16 A	200 - 250 V



New

Cruiser power plug and socket

16A

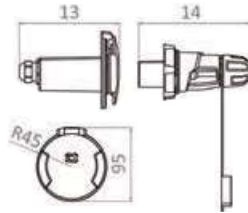
IP67

IEC 60309-5

Marine plug and socket for 16A - 230V shore power cord.
 Made of PA6, fitted with high energy efficiency contacts and IP67 cover.
 The plug has an ergonomic grip design and the rotating ring fastens it tightly to the onboard socket with a watertight closure while the rubber cover ensures an IP44 rating protection when not connected.
 Simple and compact design for easy installation in any corner of the cockpit
 In compliance with the IEC 60309-5 European safety standards.

OSCULATI

Code	Model	Material	A	V
14.416.01	3P socket	Pa6	16	230
14.416.02	3P plug	Pa6	16	230



Cruiser power plug and socket

16A marine shore power.
 Simple and compact design.
 In compliance with the IEC 60309-5 European safety standards.

code 14.416.xx





New

Cruiser shore cable and socket

16A		IP67		IEC 60309-5	
Code	Length m	A	Ø outer cable mm	Ø cable mm ²	Plug - pier side
14.416.10	10	16	11,2	2,5	No
14.416.15	15	16	11,2	2,5	No
14.416.20	10	16	11,2	2,5	14.335.01 (16A)
14.416.25	15	16	11,2	2,5	14.335.01 (16A)



OSCULATI



R-Evolve fixed articulating plug

REGISTERED DESIGN / DISEGNO DEPOSITATO

Watertight housing made from UV-resistant ASA, in compliance with IED 60309 according to ISO 13297 regulations.
The plug articulates outwards when in use making it extremely accessible and allowing a neat, recessed installation for the housing.
Cover opens at 180°, AISI 316 mirror-polished stainless steel front panel.

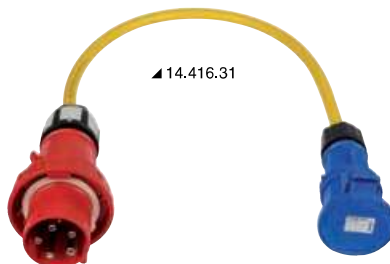
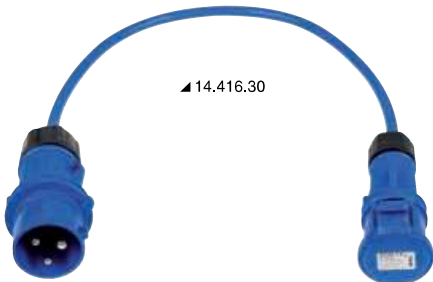
Fixed plug	Removable socket	Electric cord	A
14.321.16	14.336.01	14.592.01	16



New

Connection cables for 14.416.10/15 and 14.416.20/25

Code	Female (cable side)		Male (dock side)		Cable 0,5 m
14.416.30	14.336.01	16 A	14.335.02	32 A	3x2,5
14.416.32	14.336.02	32 A	14.335.03	63 A	3x4



Socket + plug series , watertight, 30 A

Socket with **UV resistant Luran** body, back cable protection cover, **silver plated brass** contacts. **Polycarbonate plug + Moplen**, fitted with cable locking system and **silver plated brass** contacts. Plug protection **cap** made of **PVC** with quick rotation ring made of **UV resistant Luran**. Amper 30.

Code	Model	Material	Color	Closing system
14.331.00	IP 56 watertight socket	abs	<input type="checkbox"/> white	snap type
14.331.05	IP X7 watertight socket	abs	<input type="checkbox"/> white	snap type
14.332.00	plug	polycarbonate + moplen	<input checked="" type="checkbox"/> blue	snap type
14.333.00*	cover	pvc	<input checked="" type="checkbox"/> blue	snap type

* Equipped with additional ring nut for coupling with MARINCO sockets.

**OSCULATI****AISI316 stainless steel watertight sockets**

Socket with **UV resistant Luran** body, cable protection rear cover, **silver-plated brass** contacts. Voltage 220/110. Max amperage 30 A.

Code	Model	Colour
14.329.00	IP X7 watertight socket	<input type="checkbox"/> White
14.330.00	IP 56 watertight socket	<input type="checkbox"/> White

**New Edge 30A power socket**

Socket with UV-resistant Luran body, back cable protection cover, silver-plated brass contacts. Polycarbonate+Moplen plug with cable locking system and silver-plated brass contacts. Voltage: 220/110. Amperage: 30A max.

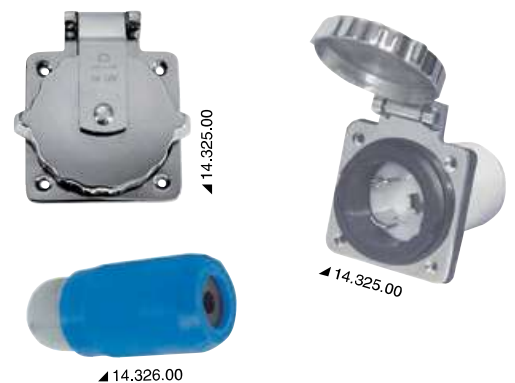
Code	Model	Material	Colour	Closure
14.331.10	IP 56 watertight socket	ABS	<input type="checkbox"/> White	Snap
14.331.11	IP 56 watertight socket	Chromed ABS	<input checked="" type="checkbox"/> Chromed	Snap

**OSCULATI****Socket + plug series , watertight, 50 A**

Socket: mirror polished **AISI 316 stainless steel** + polycarbonate + nickel-plated brass contacts and back cable protection.

Plug: polycarbonate + silver-plated brass contacts. **Cap:** plug cap made of soft electric blue PVC. Voltage: 220/110. Max 50A.

Code	Model	Material	Colour	Closure
14.325.00	Socket	SS 316	<input checked="" type="checkbox"/> Stainless steel	Screw type
14.326.00	Plug	Polycarbonate + moplen	<input checked="" type="checkbox"/> Blue	-
14.327.00	Cap	PVC	<input checked="" type="checkbox"/> Blue	-

**OSCULATI**

OSCULATI



Shore power cable and built-in plug

New watertight plug equipped with co-pressed cable.

Cable colour		Length m	A	Cable outer Ø mm	Cable section mm ²
blue*	white				
14.334.50	14.334.51	10	16	11,2	3x2,5
14.334.55	14.334.56	15	16	11,2	3x2,5
14.334.40	-	10	24	12,1	3x4
14.334.45	-	15	24	12,1	3x4
14.334.10	14.334.11	10	30	15	3x6
14.334.15	14.334.16	15	30	15	3x6

Equipped with additional ring nut for coupling with Marinco cables

* Equipped with AC LED/warning light



Sea Water Resistant tripolar/quadrupolar power cable

Made in accordance with power cords EU standards; fitted with **high conductivity copper cable with two sheaths**, the first one provides protection against accidental bangs, the second provides protection against sea-water and corrosive agents.

Code	Flow	Cable section mm ²	Cable outside Ø mm	Roll m	For sockets and plugs	Sheath color
14.592.01	16 A / 220 V	3x2,5	11	50	14.331.00; 14.332.00; 14.330.00; 14.329.00; 14.331.05	Blue
14.592.02	16 A / 220 V	3x2,5	11	50	14.332.00; 14.305.00	White
14.597.00	24 A / 220 V	3x4	12,3	50	14.301.00; 14.302.00; 14.305.00; 14.305.10; 14.303.00	Yellow
14.597.01	24 A / 220 V	3x4	12,3	50	14.331.00; 14.332.00; 14.330.00; 14.329.00; 14.331.05	Blue
14.593.00	32 A / 220 V	3x6	14	50	14.301.00; 14.302.00; 14.305.00; 14.305.10; 14.303.00; 14.331.05	Yellow
14.593.01	32 A / 220 V	3x6	14	50	14.331.00; 14.332.00; 14.330.00; 14.329.00; 14.331.05	Blue
14.593.02	32 A / 220 V	3x6	14	50	14.332.00; 14.305.00	White
14.596.00	50 A / 125-220 V	4x10	19	50	14.487.01; 14.587.01; 14.587.04	Yellow
14.595.00	63 A / 220 V	3x10	19	50	14.487.03; 14.587.03; 14.636.10; 14.634.30	Yellow
14.595.01	63 A / 220 V	3x10	19	50	14.325.00; 14.326.00	Blue
14.595.02	63 A / 220 V	3x10	19	50	14.326.00; 14.587.03; 14.587.06	White

OSCULATI



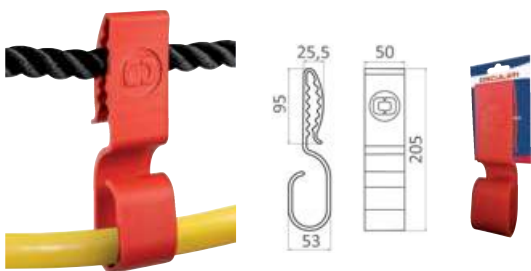
Pre-mounted electric cable

Plug + cap with pre-mounted cable and insulation cap, color **blue**.

Code	Length m	Ampère	Ø outer cable mm	Cable	Ø cable mm ²	Plug + cover
14.334.20	10	50	19	14.595.01	3x10	14.326.00 + 14.327.00
14.334.25	15	50	19	14.595.01	3x10	14.326.00 + 14.327.00



OSCULATI



Cable Hook

REGISTERED DESIGN / DISEGNO DEPOSITATO

Cable hook that lets through the power cord and the dock-to-boat water hose. Its design allows for quick fastening to the mooring line. Very sturdy, UV- and sea water-resistant.

Code	For lines Ø mm	mm
06.319.00	14-30	50x205x53

MARINCO sockets, plugs and shore power cables

MARINCO power sockets and plugs

100% **watertight**; made of thermopolymer with high resistant glass, nickel plated brass contacts.



Code	Type	Description	A	V
14.302.00	3-WIRE BIPOLAR MONOPHASE	AISI 316 stainless steel socket, male contacts	16	230 -
14.301.00	3-WIRE BIPOLAR MONOPHASE	Male socket with rear protection for "Valox" resin cables	16	230 -
14.303.00	3-WIRE BIPOLAR MONOPHASE	Male contact socket, round front with rear protection for "Valox" resin cables	16	230 -
14.305.00	3-WIRE BIPOLAR MONOPHASE	Plug to couple with sockets 14.301/302/303.00, female contacts	16	230 -
14.103.00	3-WIRE BIPOLAR MONOPHASE	Yellow watertight PVC cap for 14.305.00	-	- -
14.305.10	3-WIRE BIPOLAR MONOPHASE	Dock side plug, male contact	16	230 -
14.102.00	3-WIRE BIPOLAR MONOPHASE	Yellow watertight PVC cap for 14.305.10	-	- -
14.487.03	3-WIRE BIPOLAR MONOPHASE	AISI 316 stainless steel socket, male contacts	32	230 (50 A at 110 V)
14.634.30	3-WIRE BIPOLAR MONOPHASE	Male "Valox" resin socket	32	230 (50 A at 110 V)
14.587.03	3-WIRE BIPOLAR MONOPHASE	Plug to couple with socket 14.487.03, female contacts	32	230 (50 A at 110 V)
14.587.04	3-WIRE BIPOLAR MONOPHASE	Yellow watertight PVC cap for 14.587.03	-	- -
14.636.10	3-WIRE BIPOLAR MONOPHASE	Dock side plug, male	32	230 (50 A at 125 V)
14.771.70	3-WIRE BIPOLAR MONOPHASE	Yellow watertight PVC cap for 14.636.10	-	- -
14.487.01	4-WIRE THREE-POLE	AISI 316 stainless steel socket, male contacts	50	125/250 -
14.587.01	4-WIRE THREE-POLE	Plug to couple with socket 14.487.01, female contacts	50	125/250 -
14.587.04	4-WIRE THREE-POLE	Cap for plug 14.587.01	-	- -
14.487.06	3-WIRE HEAVY DUTY BIPOLAR MONOPHASE	AISI 316 stainless steel socket, male contacts	63	230 -
14.587.06	3-WIRE HEAVY DUTY BIPOLAR MONOPHASE	Plug to couple with socket 14.487.06, female contacts	63	230 -
14.587.04	3-WIRE HEAVY DUTY BIPOLAR MONOPHASE	Yellow watertight PVC cap for 14.587.06	-	- -
14.487.09	4-WIRE HEAVY DUTY THREE-PHASE	AISI 316 stainless steel socket, male contacts	63	230 -
14.587.09	4-WIRE HEAVY DUTY THREE-PHASE	Plug to couple with socket 14.487.09, female contacts	63	230 -
14.587.04	4-WIRE HEAVY DUTY THREE-PHASE	Yellow watertight PVC cap for 14.587.09	-	- -
14.103.01	4-WIRE HEAVY DUTY THREE-PHASE	Watertight cap to seal Marincos plugs. For plugs 14.305.00 + 14.103.00, 16-30 Amp	-	- -
14.103.02	4-WIRE HEAVY DUTY THREE-PHASE	Watertight cap to seal Marincos plugs. For plugs 14.587.03-06 + 14.587.04, 32-63 Amp	-	- -



MARINCO cable with plugs

Special cable "Sea Water Resistant", preassembled with Marincos plugs.

Code	Length m	A	Cable colour	Assembled with			Cable section mm
				cable	Marincos plug	cover	
14.210.31	10	16A 230V	Yellow	14.593.00	14.305.00	14.103.00	3x4
14.210.30	10	16A 230V	Yellow	14.597.00	14.305.00	14.103.00	3x6
14.211.31	15	16A 230V	Yellow	14.593.00	14.305.00	14.103.00	3x4
14.211.30	15	16A 230V	Yellow	14.593.00	14.305.00	14.103.00	3x6
14.211.50	15	32A 230V	Yellow	14.595.00	14.587.03	14.587.04	3x10
14.211.51 New	15	32A 230V	Yellow	14.593.00	14.587.03	14.587.04	3x6
14.211.60*	16,5	50A; 125-220V	Yellow	14.596.00	14.587.01	14.587.04	3x10

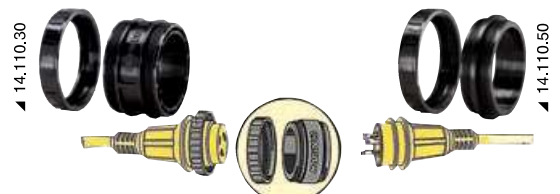
* Quadrupole cable: 3 poles, 4 wires.



Joint collector made of Lexan to screw plugs

It is required for connecting cables.

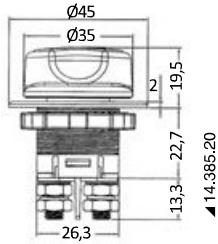
Code	To connect plugs	To connect cables
14.110.30	14.305.10; 14.102.00 with 14.305.00; 14.103.00	14.210.30; 14.211.30 with Pin Tail 16/30 A
14.110.50	14.636.10; 14.771.70 with 14.587.03; 14.587.04	14.211.50 with Pin Tail 30/50 A



Battery switches



▲14.385.20



▲14.385.20

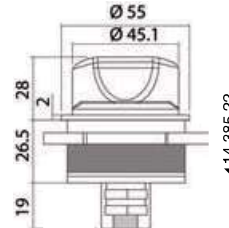
Compact battery switch

Supercompact model for mounting on instrument panel or bulkhead. Positions: OFF-ON-OUT to pull out the antitheft knob.

Code	Max capacity A		Flange Ø mm	Neck Ø mm	Net neck mm	Ø Terminal mm
	continuous	intermittent				
14.385.20	100	150	45	26	11	6
14.385.22	300	450	55	49	15	10



▲14.385.22



▲14.385.22



▲14.385.15

OSCULATI



▲14.385.17

Easy battery switch

Made of black technopolymer with flange fixing. Equipped with watertight cap. Copper contacts

Code	Max capacity A	Flange Ø mm	Studs mm	Spare key
14.385.15	100	58	9.4	14.385.17



OSCULATI

Marine battery switch

CE Made of **black polycarbonate**, flange mounting. Fitted with watertight rubber cap and splash-proof key. Model with nickel plated brass key pin, very sturdy. **CE type-tested** in compliance with the 2013/53/EU (ISO 8846 MARINE - EN 28846) directive. Compulsory device to be mounted on a positive cable.

Code	Maximun capacity A		Flange Ø mm	Spare key	Pins mm
	for 5 sec	in continuous			
14.386.03	1000	100	60	14.386.33	10



OSCULATI

Heavy Duty marine battery switch

CE Made of **black polycarbonate**, flange fixing; fitted with watertight PVC cap and **nickel-plated brass** splash-proof key. **CE type-tested** in compliance with directive 2013/53/EU (ISO 8846 MARINE - EN 28846). Compulsory device for mounting on a positive cable.

Code	Max capacity A		Flange Ø mm	Spare key	Pins mm
	for 5 sec	continuous			
14.385.00	2500	280	66	14.385.33	10



OSCULATI

Battery switch with stainless steel body

CE Made of **black polycarbonate**, flange fixing; extra version with AISI 316 stainless steel body, collar mounting with double threaded screw nut, very sturdy; equipped with watertight PVC cap and splash-proof nickel-plated brass key. CE type-tested in compliance with directive 94/25/CE (EN ISO 28846). Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Max capacity A		Neck Ø mm	Flange Ø mm	Spare key	Pins mm
	for 5 sec.	in continuous				
14.386.02	2500	280	34	66	14.386.34	10



OSCULATI



Heavy Duty MKII marine battery switch

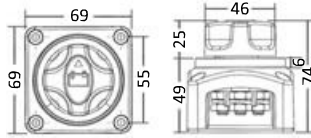
CE Made of black polycarbonate and fixed on a flange. Fitted with PVC watertight cap and **double key**. **CE type-tested** in compliance with the 2013/53/EU (ISO 8846 MARINE - EN 28846) directive. Compulsory device to mount on positive cable. **Two keys included**.

Code	Max capacity A		Flange Ø mm	Spare key	Pins mm
	for 5 seconds	continuous			
14.385.10	2500	280	66	14.385.34	10

Countertop battery switch with removable key

Cable outlet on 4 sides.

Code	Max capacity A 50V DC			Ø pins mm	←→ mm
	for 30 sec.	continuous	intermittent		
14.923.11	1000	300	500 A	10	69x69x74 h



OSCOLATI



Battery switch, flat-mounting model without recess fitting

☞ ☹ **Watertight, "CE" type-tested (EN ISO 28846); removable clip-on connecting key.**

Code	Max capacity A		Base mm	Projection mm	Pins mm
	for 5 sec.	in continuous			
14.383.00	2200	250	70x70	75	10

OSCOLATI



Heavy Duty marine battery switch with removable key

☞ ☹ Fitted with splash-proof key with **nickel-plated brass** pin, sealing cap with back fairing. "CE" type-tested in compliance with Directive 94/25/CE; polycarbonate body and copper contacts. Possibility of built-in bulkhead.

Code	Max capacity A		Flange Ø mm	Front projection mm	Bulkhead thickness mm	Pins mm
	for 5 sec.	in continuous				
14.382.01	2500	290	72	45/60	4/19	10

OSCOLATI



Heavy Duty marine battery switch, built-in model

☞ ☹ Fitted with removable **nickel-plated brass** key; "CE" type-tested in compliance with directive 94/25/CE. Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Max capacity A		Flange Ø mm	Inside overhang, clamps included mm	Colour	Pins mm	Spare key
	for 5 sec.	in continuous					
14.385.50	2500	280	105	99	White	10	14.385.51
14.385.40	2500	280	105	99	Cream RAL 9001	10	14.385.51
14.385.55	2500	280	105	99	Blacks	10	14.385.51

OSCOLATI

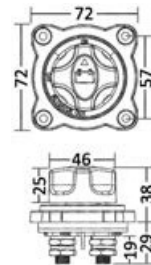


Battery switch for semi-recessed mounting

IP68

Made of polycarbonate, mounting on flange. ON-OFF-OUT position that allows to pull out the knob for anti-theft purposes.

Code	Max capacity A 50V DC			Flange mm	Pins Ø mm
	for 30 sec.	continuous	intermittent		
14.385.25	1000	300	500	72x72	10

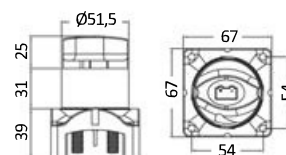


Battery switch with remote electric control

This battery switch can be mounted near the battery thus reducing the length and diameter of copper cables. Equipped with emergency manual control and LED indicators for functioning. The remote control is operated by an ON-OFF switch.

Code	V	Max capacity A		←→ mm	OPTIONAL switch
		intermittent	in continuous		
14.386.08	12/24	455	275	67x67x95h	14.386.09

14.386.09 **OPTIONAL ON-OFF 12V switch with double key and LED warning light. Dimensions: 69x69x45 mm.**





Bipolar battery switch

Fitted with 4 rear contacts; removable key, silver plated copper contacts; bipolar battery isolators are essential for boats with metal hulls.

Code	Max capacity A		Base mm	Recess mm	Recess door protrusion mm	Pins mm
	intermittent for 3 sec.	in continuous				
14.386.05	2000	120	90x90	55x55	55	10



Battery switch

Made of brass and bakelite, fitted with brass and silver-plated copper contacts. High capacity industrial model (350 A 24 v - 2500 A (3 seconds)). Specially suited for large boats with 24 V systems.

Code	Pins mm
14.386.04	12



LITTELFUSE® dual-pole battery switch with key

Fitted with 4 rear terminals. With fixed or removable handle and key. M10 silver-plated copper terminals. High performance product. This battery disconnect switch is ideal on vessels with metal hull. Special lever to lock/unlock. Key ingress protection: IP65.

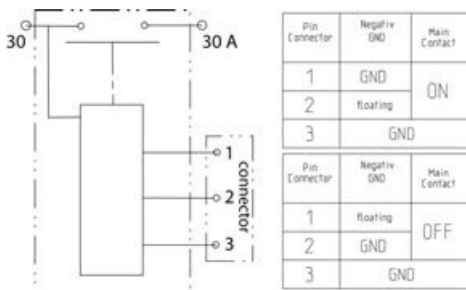
Code	V	Max capacity A		Base mm	Recess mm	Recess-fit overhang mm	Pins mm
		intermittent 10 sec	continuous				
14.386.20	12/24	1000	250	140.3x74.7	83.8x83.8	61.5	10



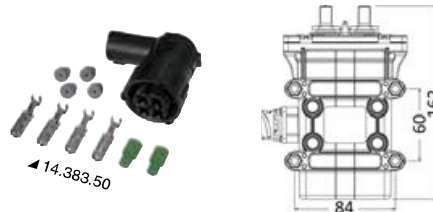
LITTELFUSE® remote electric battery switch/circuit breaker

IP67

Bistable/magnetic current switch, it absorbs current only when switched from (OFF) to (ON) and vice versa via a remote switch. Additional outlet to connect a warning light or an audible alarm. M10 nickel-plated brass terminal hardware. Silver-plated copper terminals.



Code	V	Max capacity A		Connection	mm	Outlet connector OPTIONAL
		for 5 sec.	continuous			
14.389.01	12/24	2000	250	+/-	162x84	14.383.50



FlexMod LITTELFUSE® - Isolator controller

IP67

Electronic unit designed to preserve the battery charge. The unit is autoranging to automatically sense the voltage of the system (12 or 24V). It preserves the main battery (starting) power by isolating the auxiliary battery when the system voltage drops below a critical level and it automatically reconnects the battery banks when voltage rises to the correct level. Compatible with electronically controlled alternators, it eliminates false battery warnings created by diode isolators and protects devices from overcurrent.



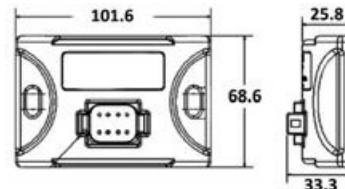
▲ 14.921.31

Codice	Operating voltage	Disconnect voltage	Connect voltage	Overcurrent protection	IP	OPTIONAL (Deutsch) connector
14.921.31	9/32 V	12.7/25.4 V	13.2/26.4 V	15 A*	67	14.921.32

* It disconnects load after 1 sec of excessive current.



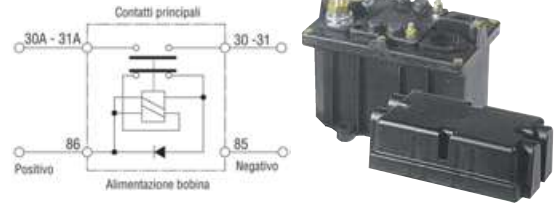
▲ 14.921.32



**Automatic unipolar battery switch
(general power remote control switch with separate coil feed)**

Connected under starter key, if power needs to be cut automatically (in this way the ignition key needs additional tripping) or simply **with an ON-OFF switch** independent from the key, which can also be hidden and used as anti-theft device. IP65 watertight protection, silver plated copper contacts. Positive or negative disconnection.

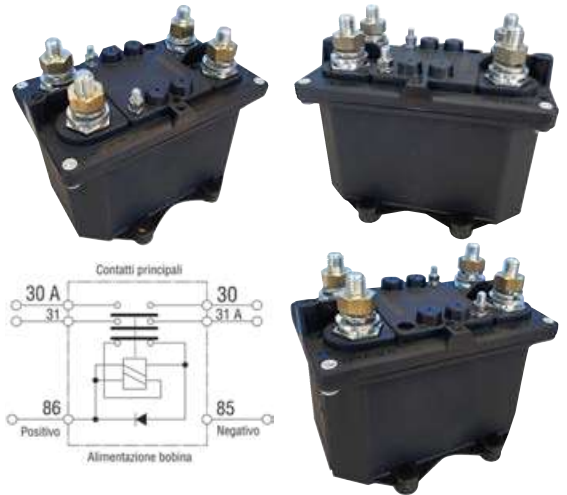
Code	V	Max load A		Pins mm	←→ mm	kg
		for 5 sec.	continuous			
14.384.12	12	2500	250	10	144x95x98	1.116
14.384.24	24	2500	250	10	144x95x98	1.116



**Automatic bipolar battery switch
(general power remote control switch with separate coil feed)**

For 2 battery banks. Connected under starter key, if power needs to be cut automatically (in this way the ignition key needs additional tripping) or simply **with an ON-OFF switch** independent from the key, which can also be hidden and used as anti-theft device. IP65 watertight protection, silver plated copper contacts. Positive or negative disconnection.

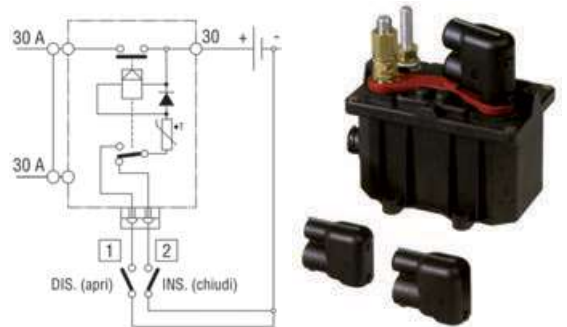
Code	V	Max load A		Pins mm	←→ mm	kg
		for 5 seconds	continuous			
14.384.32	12	2500	300	10	144x95x98	1.4
14.384.34	24	2500	300	10	144x95x98	1.4



Battery switch / battery isolator switch

Disconnects the positive battery terminal by means of a separate ON-OFF switch. Stays open or closed without consuming energy until the next current flow; it can be connected to a led light that indicates the on/off status and can be installed in series to control multiple battery units simultaneously. Supplied with emergency manual control; IP56 protection, M 12 silver plated copper contacts.

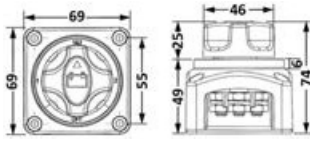
Code	V	Max capacity A		Pins mm	←→ mm	Outlet connector OPTIONAL
		for 5 sec.	in continuous			
14.383.12	12	2500	250	12	164x95x98	14.383.50
14.383.24	24	2500	250	12	164x95x98	14.383.50



**Heavy Duty MKII
marine battery switch**



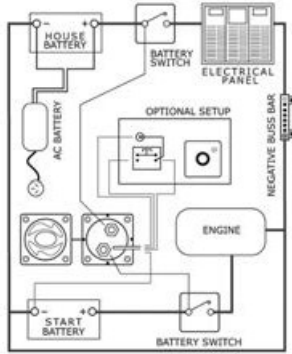
Battery switches and battery isolators



Battery switch

Switch positions: Batt. 1 - Batt. 2 - Batt. 1+2 - OFF.
12/24 V voltage.

Code	Max capacity A 50V DC			Ø pins mm	mm
	for 30 sec.	continuous	intermittent		
14.923.12	1000	100	300	10	69x69x74 h

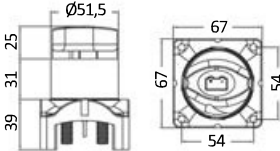


Dual operation voltage-sensitive switch and emergency parallel

This Voltage Sensitive Switch (VSS) automatically senses the voltage of two connected batteries or battery banks and provides optimal, efficient charging of the second bank. The VSS allows for two independent battery banks to be combined or isolated based on the presence of a charging source (such as an engine alternator or battery charger). Once the charging source is activated, the VSS lets the first battery of the main bank (engine battery) recharge; when this latter reaches 13.2V, the switch opens the circuit and lets the second battery (service battery) recharge. The emergency parallel function can be operated manually by means of a knob or through an On/Off button on the dashboard. Recess or surface mounting.



14.386.09



Code	V	Max capacity A		mm
		intermittent	in continuous	
14.386.10	12	455	275	67x67x95

14.386.09 OPTIONAL ON-OFF 12V switch with double key and LED warning light. Dimensions: 69x69x45 mm.

Selecta New battery switch

IP65



14.921.00



14.921.02

Can use batteries alternatively or simultaneously; fitted with **copper** contacts, **stainless steel** springs, **PC/PTB/Fiberglass** flame resistant casing, protective cable base; extra ring-nut for flush mounting (Ø size 95 mm); type approved by ISO 8846 MARINE EN 28846.

A) "MK II" version. selectable options: bank/battery "1", bank/battery "2" or 1+2 simultaneously. Includes device that disconnects the alternator power automatically if is under the "OFF" position without switching off the engines; type-approval no. DIP006907SP.

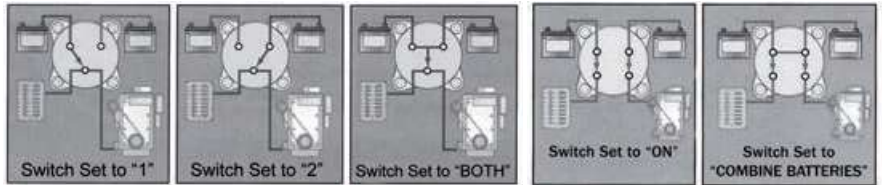
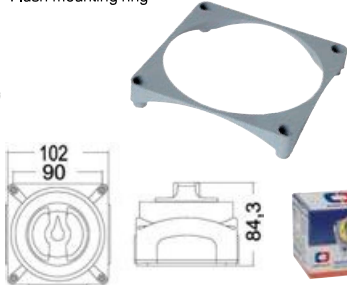
B) Version MK III. connects the engine start-up batteries and the service batteries simultaneously in position "1", keeping the start-up batteries separately with motors, thus minimizing the risk of an accidental discharge if case of an emergency. The two circuits are connected **among them** under position "2", type-approval no. DIP006907SP.

Code	Model	Max power		Functions	Pick up	Base mm	Height mm	Pins mm
		intermittent	in continuous					
14.921.00	MK II	450	300	OFF - 1 - Battery 1; 2 - battery 2; 3 - parallel	1500°	104x104	80	10
14.921.02	MK III	450	300	OFF - 1 - Connect services and motors with separate circuits 2 - Parallel between services and motors	1500°	104x104	80	10

Flush mounting ring

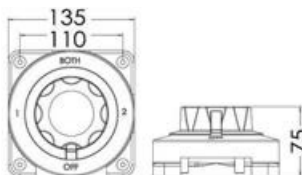


14.921.00



MK II

MK III



Selecta battery switch



It allows to use one or both batteries or to disconnect them; fitted with safety clip-on lock rotator, CE type-tested in compliance with 94/25/CE standard.

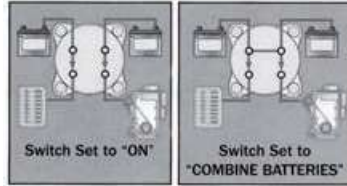
Code	Capacity in continuous	Pins mm	mm
14.920.00	175 A at 12/24V	10	135x135x75H

New Electra countertop/recess-fit battery switch/switch

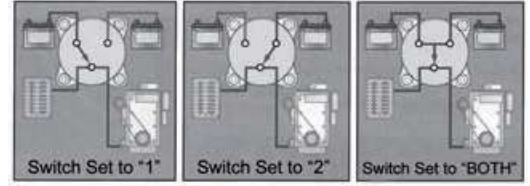
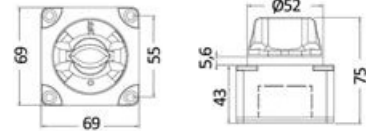
Series of switches that activate/deactivate, combine and/or separate the battery banks for engines and services.

For applications up to 48 VDC. Compatible with wall or built-in installations. In compliance with the reference regulations UNI EN ISO 8846. Cable outlet on the 4 sides.

Code	Model	Capacity max A		Pick up (5 sec.)	Functions	←→ mm
		continuous	intermittent			
14.923.01	Switch	300	450	1000	ON / OFF (1 battery)	69x69x75
14.923.02	Switch/Toggle switch (MKII)	300	450	1000	OFF / Battery 1 / Battery 2 / Battery 1+2 parallel	69x69x75
14.923.03	Switch/Toggle switch (MKIII)	300	450	1000	OFF / Battery 1+2 separated / Battery 1+2 parallel	69x69x75



▲ MKIII



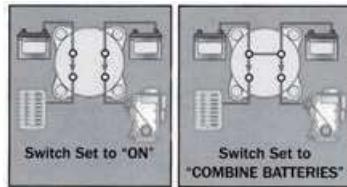
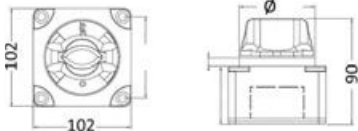
▲ MKII

New Electra HD countertop/recess-fit battery switch/switch

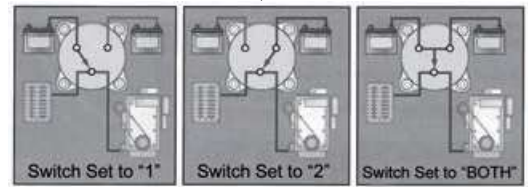
Series of switches that activate/deactivate, combine and/or separate the battery banks for engines and services.

For applications up to 48 VDC. Compatible with wall or built-in installations. In compliance with the reference regulations UNI EN ISO 8846. Cable outlet on the 4 sides.

Code	Model	Capacity max A		Pick up A (5 seconds)	Functions	←→ mm
		continuos	intermittent			
14.923.21	Switch	550	800	2500	ON / OFF (1 battery)	102x102x90
14.923.22	Switch/Toggle switch (MKII)	550	800	2500	OFF / Battery 1 / Battery 2 / Battery 1+2 parallel	102x102x90
14.923.23	Switch/Toggle switch (MKIII)	550	800	2500	OFF / Battery 1+2 separated / Battery 1+2 parallel	102x102x90



▲ MKIII



▲ MKII

Heavy Duty battery switch, high-power model

CE Copper contacts, stainless steel springs; polycarbonate body; fitted with automatic power interruption on the alternator if the battery isolator activates before turning off the engine. Specially suited for diesel engines which, due to large starters, require heavy amperage; "CE" type-tested in compliance with 94/25/CE standards.

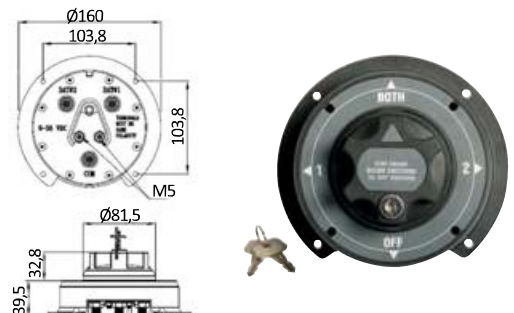
Code	Capacity max A		With terminals Ø mm	Version	Pins mm	←→ mm
	intermittent	in continuous				
14.905.00	850	380	12	Universal 12/24 V	12	140x140x85

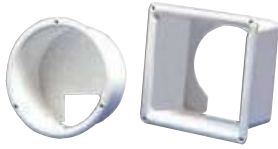


Switch for Heavy Duty batteries

Made with the best materials, fit with lock and additional contacts for the automatic disconnection of current to the alternator in case the battery switch activates before the engines are switched off.

Code	V	Max capacity A		←→ mm
		intermittent	in continuous	
14.904.00	12/24	500	310	160x160x70

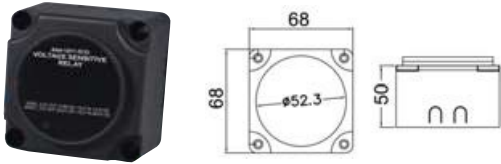




Built-in compartments

Built-in compartments designed for flush mounting of battery isolators and battery switches

Code	Material	battery isolator compartment	Hole version	Ø Hole mm	Recess depth mm
14.561.02	white ABS	-	circular	143	70
14.561.03	white ABS	14.905.00; 14.920.00	square	149x149	90



Voltage Sensitive Relay

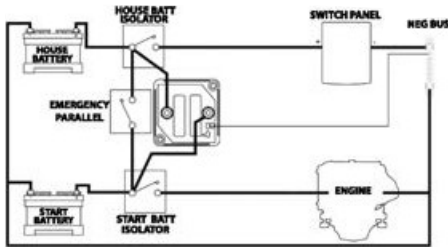
This relay charges two batteries at the same time with a single alternator.

When the engine is switched on, the Voltage Sensitive Relay stays open until the starting battery reaches 13.7/27 V and then closes the contact and charges the 2 batteries at the same time.

When the engine stops and the voltage drops below 12.8/25.2 V, the Voltage Sensitive Relay opens the contact and keeps the two batteries separated thus preventing the wrong battery from draining and avoiding current peaks that damage the onboard electronic equipment when starting the engine. It protects the starter battery from draining due to the use of onboard services.

No voltage drop, zero consumption in stand by phase.

Easy to install without modifying the alternator cabling. 12/24 V automatic selection.



Code	V	A	Description	mm
14.921.90	12/24	140	Voltage-sensible relay	68x68x50



New

VSR Voltage Sensitive Relay with Starter isolator

When the voltage of start battery reaches 13.7/27.0 V, the smart battery isolator (SBI) keeps engaging, and two batteries are charged simultaneously.

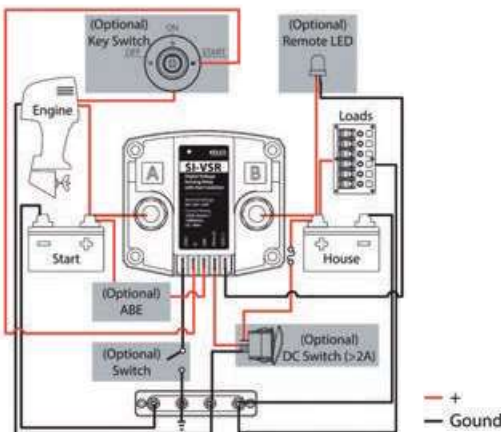
When the engine is off and the voltage drops below 12.8/25.5 V, the SBI senses it and disengages, separating both batteries, avoiding to drain the wrong battery.

When the voltage of the start battery drops the isolator kit disengages from charging the auxiliary battery. This isolates the start battery and eliminates the possibility of draining it, ensuring that you always have enough charge to start your engine. No voltage drop.

0.5 mA current draw in stand-by mode. LED warning light when VSR is activated and 12/24 V automatic selection.

Functions:

- Start Isolation: it engages temporary isolation during the engine ignition to protect the onboard instrumentation. (*)
 - ABE: when the engine is at a minimum rate, it loads both batteries for an additional period of time lowering the disengaging level from 12.8/25.5 V to 12.2/24.5 V. (*)
 - Storage Mode: current draw reduced to 0 when the engine is still. (*)
 - ON-OFF manual activation is possible.
 - Front contacts (10 mm) for easier installation + clear protection lid.
- (*OPTIONAL functions, to be activated only if you wish it).



Code	V	A		Description	mm
		continuous	intermittent		
14.921.91	12/24	125	140	Voltage-sensible relay	-

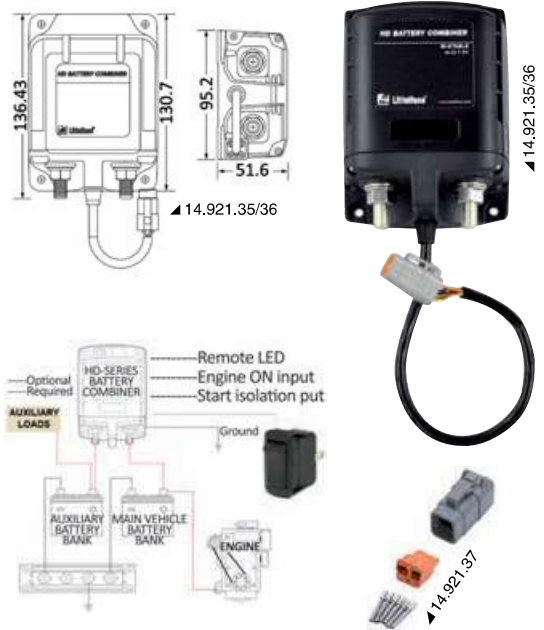
LITTELFUSE® bistable automatic smart latching relay

IP67

It connects the battery banks (starting + services) when alternator/battery charger are working and it disconnects the banks when the charging system stops.

It stands power peaks (i.e. powerful inverters). In case of emergency battery banks can be connected with a simple switch control.

It complies with ISO 8846/SAEJ1171. Deutsch 6-pole DTM male connector.



Code	V	Max capacity A		Control current	Relay contact position				
		for 10 sec	continuous		closes (30 sec) with voltage	closes (90 sec) with voltage	opens (10 sec) with voltage	opens (30 sec) with voltage	opens circuit
14.921.35	12	1500	300	40 mA*6 A**	13,5 V	13,1 V	12,3 V	2,7 V	16,5 V***
14.921.36	24	1500	300	40 mA*3 A**	27,0 V	26,0 V	24,0 V	25,5 V	32,4 V***

- 14.921.37 Deutsch 6-pole DTM female connector (DTM 06-65).
- * At rest
- ** In activation phase, 50 m/sec.
- *** System protection

New Settable electric touch panel with CAN-BUS

MODULAR BACKLIGHT AUTOMATIC FUSE

Touch modular panel made of glass and with backlit symbols. It comes with 48 stickers indicating the different functions and to be applied under the glass so that the surface is smooth and gives a print-like effect.

Every switch can be set in 3 different modes:

- Traditional ON-OFF: press a key to activate/deactivate the relating function.
Ex. COCKPIT LIGHTS

- Temporary (ON)-OFF: this function is active only when the key is pressed.
Ex. 1: switch – HORN
Ex. 2: switches – WINDLASS UP/DOWN

- ALTERNATE ON-OFF: two keys can be set to activate a function and deactivate another and vice versa.
Ex.: BILGE PUMP IN MANUAL/AUTOMATIC MODE.

The keys are backlit in yellow when in standard mode, in blue when the function is active and in red in case of short circuit.

The panels are designed to be modular: if placed side by side in vertical and/or horizontal position, they look like a single built-in panel with 4, 6, 8 (4 + 4), 12 (6 + 6) switches and so on.

The connection between the CAN-BUS and the panel is wired by means of a quick fitting. 1.5-m cable and another 1.5-m extension cord can be added.

The MOSFET module is a protection against overloads and voltage inversions. The CAN-BUS is fitted with 4 or 6 thermal fuses that activate in case of short circuit (function key lit in red). The fuse can be reset automatically once the short circuit has been solved and the key is then lit in yellow.



14.691.04/06

14.691.06

14.691.90



CE-certified panels, IP67 protection degree.

Code	No. of switches	V	Circuit breaker power	Installation panel mm	Installation bore Ø mm	control box mm	1.5-m extension cable
14.691.04	4	12/24	1x5A; 2x10A; 1x15A	62x62x10	16	100,5x152	14.691.90
14.691.05	4	12/24	2x10A; 2x20A	62x62x10	16	100,5x152	14.691.90
14.691.06	6	12/24	2x5A; 2x10A; 2x15A	93x62x10	16	100,5x152	14.691.90

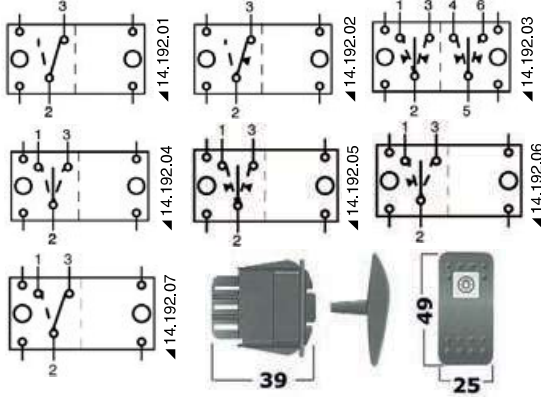


Switches and circuit breakers

CARLINGSWITCH



▲14.192.01



CARLING SWITCH Contura II switch

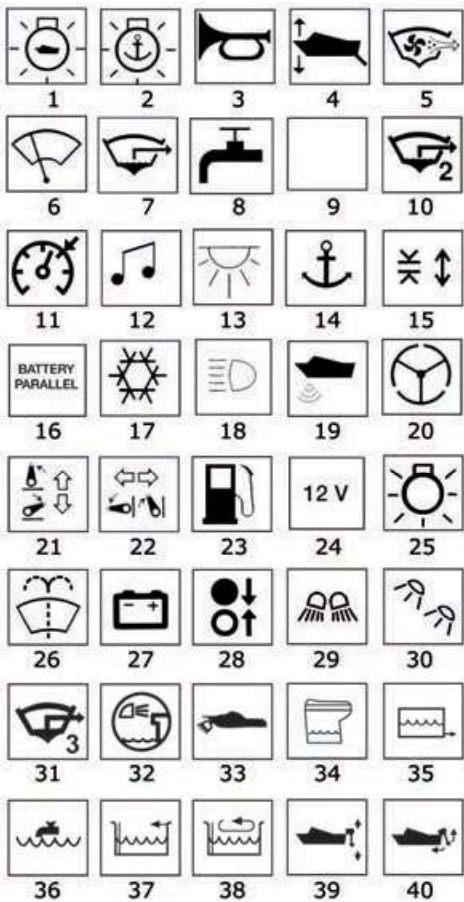
Water-resistant IP 56; installation requires a rectangular hole size 21,5x36,8 mm; maximum capacity of **20 A** at 12volt, **15 A** at 24 volt. Fitted with **two lights**: one illuminates the user symbol wherein it's connected; **always on** (so it can be located when it's dark), the other light illuminates a special gap under the symbol **which switches on**, i.e. **when the use is activated, slot to be ordered separately**.

Type	White bulbs		Red LED		Recommended for	No of terminals
	12 V	24 V	12 V	24 V		
ON-OFF	14.192.01	14.192.21	14.192.51	14.192.61	-	4
(ON)-OFF*	14.192.02	14.192.22	14.192.52	14.192.62	Horns, toilets	4
(ON)-OFF-(ON)*	14.192.03	14.192.23	14.192.53	14.192.63	Trim tabs, hydraulic pumps, windlasses	8 bipolar
ON-OFF-ON	14.192.04	14.192.24	14.192.54	14.192.64	Bilge pumps (automatic/manual), navigation lights, masthead lights	6
(ON)-OFF-(ON)	14.192.05	14.192.25	14.192.55	14.192.65	Hydraulic gangplanks, windlasses, trim tabs	4
ON-OFF-(ON)	14.192.06	14.192.26	14.192.56	14.192.66	Bilge pumps (automatic/manual)	4
ON-ON	14.192.07	-	14.192.57	14.192.67	Switch to operate the same light from 2 different places	-

(ON) means with spring return.

* "ON momentary" version light only on the use

CARLINGSWITCH



Toggles with lighted symbols

Fitted with an extra symbol that illuminates and gives contact.

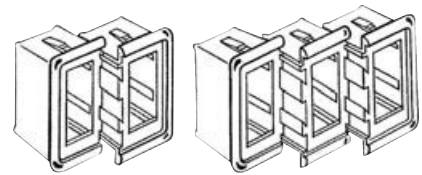
Description	Type V Nickel-metallized polycarbonate Contura	Type C White polycarbonate hard surface	Type B Black polycarbonate hard surface	Type A Semi-rigid anti-skid polycarbonate surface covered with black polyurethane
01 - Navigational lights	14.194.01	14.193.61	14.193.31	14.193.01
02 - Anchor lights	14.194.02	14.193.62	14.193.32	14.193.02
03 - Horn	14.194.03	14.193.63	14.193.33	14.193.03
04 - Flap	14.194.04	14.193.64	14.193.34	14.193.04
05 - Extractor fan	14.194.05	14.193.65	14.193.35	14.193.05
06 - Windshield wiper	14.194.06	14.193.66	14.193.36	14.193.06
07 - Bilge pump	14.194.07	14.193.67	14.193.37	14.193.07
08 - Autoclave	14.194.08	-	14.193.38	14.193.08
09 - Neutral, no symbol	14.194.09	14.193.69	14.193.39	14.193.09
10 - Bilge pump "2"	14.194.10	-	14.193.40	14.193.10
11 - Panel lights	14.194.11	14.193.71	14.193.41	14.193.11
12 - Stereo	-	-	14.193.42	14.193.12
13 - Cockpit lights - cabin lights	14.194.13	14.193.73	14.193.43	14.193.13
14 - Anchor windlass control	14.194.14	14.193.74	14.193.44	14.193.14
15 - Hatch opening	14.194.15	-	14.193.45	14.193.15
16 - Battery parallel	-	-	14.193.46	14.193.16
17 - Fridge	-	-	14.193.47	14.193.17
18 - High beam light	14.194.18	14.193.78	14.193.48	14.193.18
19 - Depth sounder	-	-	14.193.49	14.193.19
20 - Automatic pilot	-	-	-	14.193.20
21 - Gangplank up/down	-	-	14.193.51	14.193.21
22 - Gangplank out	-	-	14.193.52	14.193.22
23 - Petrol pump or electro-valve	-	-	-	14.193.23
24 - 12 volt	-	-	14.193.54	14.193.24
25 - Cabin lights	14.194.25	-	14.193.55	14.193.25
26 - Windscreen spray	-	-	14.193.56	14.193.26
27 - Batteries	-	-	14.193.57	14.193.27
28 - Open/close Hard Top	14.194.28	-	14.193.58	14.193.28
29 - Gangplank lights/cockpit lights	14.194.29	-	14.193.59	14.193.29
30 - Deck/crosstree courtesy lights	-	-	14.193.60	14.193.30
31 - Bilge pump "3"	-	-	14.193.90	14.193.80
32 - Mooring lights	-	-	14.193.91	14.193.81
33 - Bow lights	-	-	14.193.92	14.193.82
34 - Toilet lights	-	-	14.193.93	14.193.83
35 - Macerator	-	-	14.193.94	14.193.84
36 - Salt water pump	-	-	14.193.95	14.193.85
37 - Ventilating pump	-	-	14.193.96	14.193.86
38 - Recirculating pump	-	-	14.193.97	14.193.87
39 - Raise F.B.	-	-	14.193.98	14.193.88
40 - Trim F.B.	-	-	14.193.99	14.193.89

CARLING SWITCH bezel for switches

Plastic bezels designed to create a single panel with Carling switches and similar.

CARLINGSWITCH

Version	white	black
Frame for just one switch	14.197.63	14.197.03
Central insert	14.197.61	14.197.01
terminal insert right/left	14.197.62	14.197.02
frame closing plug	14.197.64	14.197.04

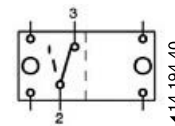
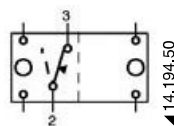
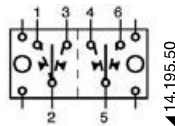


CARLING SWITCH Contura rocker switch

IP56 water-proof; installation requires a 21X37 mm hole; maximum capacity of 20 Amp at 12 volt; models fitted with **light symbol**.

CARLINGSWITCH

Code	Operation	V	No. of terminals	Rocker
14.194.40	OFF-ON	12	2	INCLUDED
14.194.50	OFF-(ON) for horn, etc.	12	2	INCLUDED
14.195.50	(ON)-OFF-(ON) for flaps, etc.	12	7	INCLUDED



Marina R toggle switch, watertight

IP67

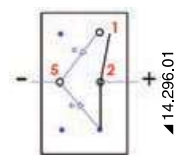
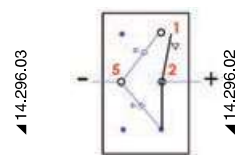
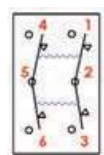
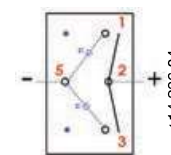
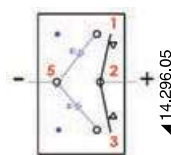
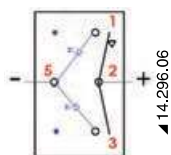
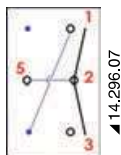
Installation requires a 21.5x36.8-mm rectangular bore. 20 A / 12 V max power. Rigid toggle and LED warning light that lights up the toggle to activate the contact.

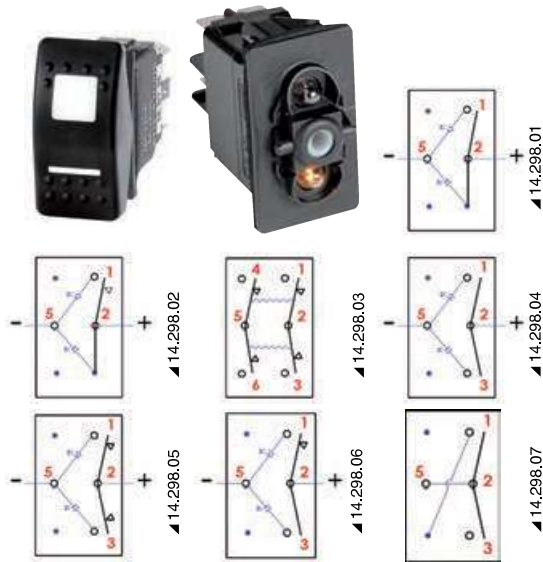
Code	Function	V	N. terminals	Toggle
14.296.01	OFF-ON	12/24	3	INCLUDED
14.296.02	OFF-(ON)	12/24	3	INCLUDED
14.296.03*	(ON)-OFF-(ON) for: flaps, trim tabs, gangways, etc.	12/24	6	INCLUDED
14.296.04	ON-OFF-ON for 2 separate circuits (navigation and masthead lights or to switch the bilge pump from manual to automatic mode)	12/24	4	INCLUDED
14.296.05	(ON)-OFF-(ON) for: hydraulic gangways, anchor winches, flaps	12/24	4	INCLUDED
14.296.06	ON-OFF-(ON) for bilge pumps (automatic and manual mode)	12/24	4	INCLUDED
14.296.07*	ON ¹ - OFF - ON ¹⁺² ; ON ¹ = circuit 1 ON ¹⁺² = circuit 1+2 Navigation lights for hulls up to 12 m: ON ¹ = white 360° ON ¹⁺² = white 360°+red/green 112°,5	12/24	4	INCLUDED



(ON) with spring return.

* No LEDs





Marina R II dual LED rocker switch, IP56 watertight

IP56 watertight, Marina series. 21.5x36.8-mm rectangular bore required for installation. Maximum capacity **20 A** at 12 V and **12 A** at 24 V. Supplied with **double red LED**: one for the symbol, which is **always on**, the second for a special slit under the symbol that **switches on** when the symbol indicator is **activated**. Rocker switch to order separately.

12/24V switch with no toggle	Version	Type	Recommended for	Terminals
14.298.01	Unipolar	ON-OFF	-	3
14.298.02	Unipolar	(ON)-OFF	Horns, toilet unit controls	3
14.298.03*	Bipolar	(ON)-OFF-(ON)	Hydraulic gangplanks, windlasses, flaps, trims	6
14.298.04	Unipolar	ON-OFF-ON	Bilge pumps (automatic/manual), navigation + mast head lights	4
14.298.05	Unipolar	(ON)-OFF-(ON)	Hydraulic gangplanks, windlasses, flaps	4
14.298.06	Unipolar	ON-OFF-(ON)	Bilge pumps (automatic/manual)	4
14.298.07*	Unipolar	ON ¹ -OFF-ON ¹⁺²	Navigation lights on hulls up to 12 m: ON ¹ = white 360° ON ¹⁺² = white 360°+ red/green 112.5	3

(ON) means with spring return.
No LEDs

Rocker switches with backlit icons for Marina R II switches

Additional warning light that lights up when connected, **Semi-rigid anti-slip** surface, polycarbonate coated in black polyurethane.



Description	Polycarbonate hard surface	Anti-slip semi-rigid surface - Polycarbonate coated in black polyurethane
01 - Navigation lights	14.299.40	14.299.01
02 - Mooring lights	14.299.41	14.299.02
03 - Horn	14.299.42	14.299.03
04 - Flap	14.299.43	14.299.04
05 - Blower	14.299.44	14.299.05
06 - Wiper	14.299.45	14.299.06
07 - Bilge pump	14.299.46	14.299.07
08 - Fresh water pump	14.299.47	14.299.08
09 - Neutral, no symbols	14.299.48	14.299.09
10 - Bilge pump 2	14.299.49	14.299.10
11 - Panel lights	14.299.50	14.299.11
12 - Stereo	14.299.51	14.299.12
13 - Cockpit lights, cabin lights	14.299.52	14.299.13
14 - Anchor winch control	14.299.53	14.299.14
15 - Hatch opening	14.299.54	14.299.15
16 - Battery parallel	14.299.55	14.299.16
17 - Refrigerator	14.299.56	14.299.17
18 - High beam light	14.299.57	14.299.18
25 - Cabin lights	14.299.65	14.299.25
29 - Gangplank lights	14.299.69	14.299.29
30 - Deck courtesy lights	14.299.70	14.299.30

⚠ Rocker switches are not compatible with switches of Marina R Series sold until February 2021.

Marina TOP watertight double LED toggle switches

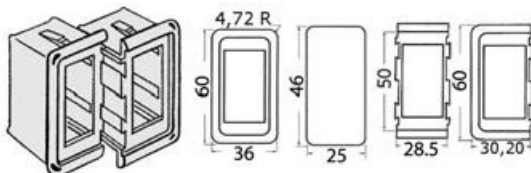
IP56 watertight. A 21.5x36.8-mm rectangular hole is required for installation. 20 A/12 V and 10 A/24 V max capacity. Fitted with double LED, one for the use symbol (**always on**) and one for the switch activation.



12/24 V switch	Version	Type	Use	No of terminals
14.212.01	no toggle	ON - OFF	Any	3
14.212.02	no toggle	(ON) - OFF	Horn, WC control, etc.	3
14.212.04	no toggle	ON - OFF - ON	2 separate circuits, navigation lights, bilge pumps, etc.	4
14.212.05	no toggle	(ON) - OFF - (ON)	Hydraulic gangways, flaps, electric ladders and tops, winch	4
14.212.06	no toggle	(ON) - OFF - ON	(Automatic/manual) bilge pumps	4
14.212.03	no toggle	(ON) - OFF - (ON)	Hydraulic gangways, flaps, electric tops, winch	7 bipolar
14.212.07	no toggle	ON ¹ -OFF-ON ¹⁺²	Navigation lights for hulls up to 12 m: ON ¹ = white 360° ON ¹⁺² = white 360°+red/green 112.5°	7 bipolar

Bezel for plastic switches

Plastic bezels suitable for making single panels for switches 14.296../14.198../14.298..

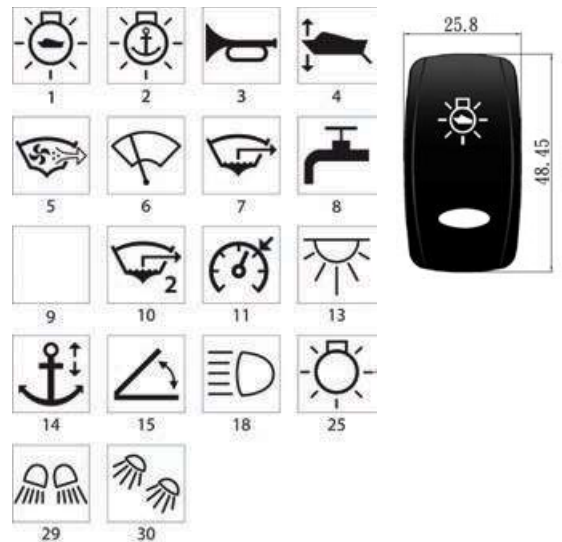


Code	Description
14.197.21	central insert
14.197.22	Frame for just one switch
14.197.23	Locking frame plug
14.197.31	terminal insert dx/sx

Laser-cut symbols. OVAL toggles for Marina TOP switches with symbol lights

With additional light when the switch is on.

Code	Description
14.213.21	01 - Navigation lights
14.213.22	02 - Mooring lights
14.213.23	03 - Horn
14.213.24	04 - Flap
14.213.25	05 - Extractor fan
14.213.26	06 - Windscreen wiper
14.213.27	07 - Bilge pump
14.213.28	08 - Autoclave
14.213.29	09 - Neutral without symbols
14.213.30	10 - Bilge pump "2"
14.213.31	11 - Control panel lights
14.213.33	13 - Cockpit/cabin lights
14.213.34	14 - Anchor winch control
14.213.35	15 - Port opening
14.213.38	18 - Light
14.213.45	25 - Cabin lights
14.213.49	29 - Gangplank/underwater/cross-tree lights
14.213.50	30 - Deck/courtesy lights

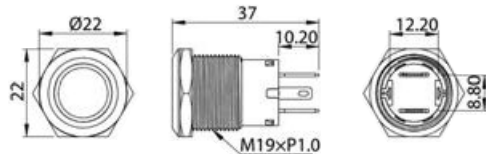


FLAT stainless steel switch

PATENTED 20 A

CNC-machined AISI316 stainless steel case.
 Amperage: 20A at 12V. IP67 watertight (temporary submersion). LED light crown. Life: 20,000 cycles.
 A scheme wiring: LED light crown always on.
 B scheme wiring: LED light crown switched when in ON position.

White LED	Red LED	Blue LED	Function	V	A
14.215.01	14.215.02	14.215.03	ON-OFF	12	20
14.215.05	14.215.06	14.215.07	(ON)-OFF (momentary)	12	20
14.215.09	14.215.10	14.215.11	ON-OFF	24	10
14.215.13	14.215.14	14.215.15	(ON)-OFF (momentary)	24	10



New Preassembled wiring kit for FLAT switches

14.215.20 Ideal for fast installation and repairs of 20A switches.
 Jumper cable for PUSH ON or ALWAYS ON configuration of the LED.
 It makes 12V switches compatible with 24V voltage.
 The kit comes with 15-cm long cables.



Set of 40 marine stickers for Flat vandalism-proof switches type 14.215.xx

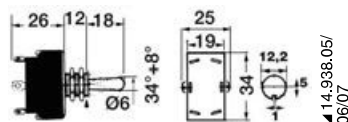
14.215.25 Backlit stickers for vandalism-proof switches. Set of 40 pieces.
 Waterproof film material resistant to scratches.
 Print on the back for longer duration.



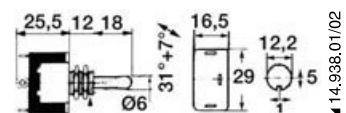
CARLING SWITCH toggle switch

High tension **thermosetting** body, **silver plated** contacts, **nickel plated brass** lever and sleeve.
 Capacity of 15 Amp; very sturdy and functional model; best product available on the market; "Faston" terminals, pin size 12x10 mm; can be connected to 2 separate circuits.

Code	Type	Capacity	Recommended for	Terminals	Rubber cap with brass washer OPTIONAL
14.938.01	ON-OFF	15 A	-	2	14.938.03
14.938.02	ON-OFF-ON	15 A	-	3	14.938.03
14.938.05	(ON)-OFF-(ON)	15 A	hydraulic flaps, electro-controlled spot lights, trims, lifts, etc.	3	14.938.03
14.938.06	(ON)-OFF-ON	15 A	bilge pumps in automatic-manual mode	3	14.938.03
14.938.07	(ON)-OFF	15 A	electric lifts, horns, flashing lights, etc.	2	14.938.03



CARLINGSWITCH

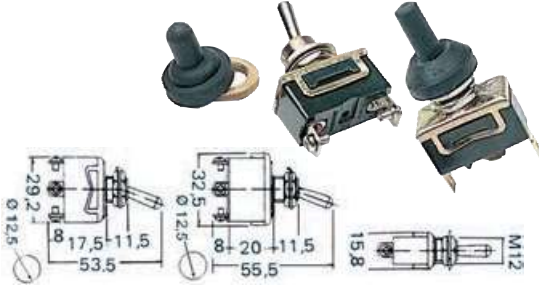




Toggle switch, lighted model

Watertight through its clear silicon cap, which enables light to pass through the lever; fitted with back faston couplings.

Code	Function	Capacity A
14.303.36	ON/OFF/ON 3 terminals (for all services)	15
14.303.37	ON/OFF/ON with spring recovery to the centre (suitable for horns, flaps, windlasses, anchor, etc.)	15



Toggle switch

Code	Type	Neck Ø mm	A	Terminals	Rubber cap with OPTIONAL brass washer	PACKAGE
14.925.01	ON-OFF	12	15	2	14.925.03	10
14.925.02	ON-OFF-ON	12	15	3	14.925.03	10
14.925.05	(ON)-OFF-(ON)	12	15	3	14.925.03	10
14.925.06	(ON)-OFF-(ON)	12	15	6 (2 poles)	14.925.03	10

(ON) with spring return



Self-adhesive plate

Made of **aluminium**, fitted with silk-screen indelible print, rust-proof; suitable for switch types: 14.917/918/938/925.xx.

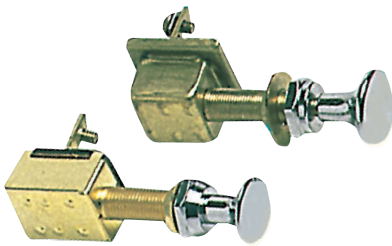
Code	Version	Hole Ø mm	Code	Version	Hole Ø mm
14.916.01	Nav-Light	12,5	14.916.10	Wiper	12,5
14.916.02	Cabin Light	12,5	14.916.11	Radio	12,5
14.916.03	Search Light	12,5	14.916.12	Horn	12,5
14.916.04	Blower	12,5	14.916.13	Parall. Battery	12,5
14.916.05	Anchor Light	12,5	14.916.14	Flap Up	12,5
14.916.06	Bilge Pump	12,5	14.916.15	Flap Down	12,5
14.916.07	Water Pump	12,5	14.916.16	Compass, Light	12,5
14.916.08	Panel Light	12,5	14.916.17	Windlass UP-Down	12,5
14.916.09	Refrigerator	12,5			



Automatic fuse with thermal protection

Fitted with clear silicone watertight cap.

Code	A	Application hole on the panel mm	Body mm
14.733.05	5	12	31x14,6x35
14.733.10	10	12	31x14,6x35
14.733.15	15	12	31x14,6x35
14.733.20	20	12	31x14,6x35
14.733.30	30	12	31x14,6x35
14.733.40	40	12	31x14,6x35



Pull switch

Made of **chromed brass**; silver plated contacts, long neck, **chromed brass** knob (no chromed plastic).

Code	Version	Neck mm
14.918.01	Standard	9,5x32
14.918.02	Watertight case	9,5x32



Utility switch

Features: a) **marine brass** body - b) **silver plated** contacts - c) **bronze** internal spring - d) long collar (10x32mm Ø pin) for no matter what application - e) chromed knob with symbols.

Code	Version	Code	Version
14.917.00	Switch without knob	14.917.05	5 - Panel light
14.917.01	1 - Navigational lights	14.917.06	6 - High beam light
14.917.02	2 - Mast head light	14.917.08	8 - Bilge pump
14.917.03	3 - Gas aspirator	14.917.09	9 - Neutral
14.917.04	4 - Windshield wipers		





3-position switch with chromed brass plate

Code	Version	Max load A	Neck mm
14.918.05	with two separate circuits	25	9,5x32
14.918.06	with two circuitsuito	25	9,5x32

ON-OFF LED switch with light indicator

Made of **chromed brass**, **silver plated** contacts, Same design as switches 14.918,01/2//5/6. Built-in warning light on the knob.

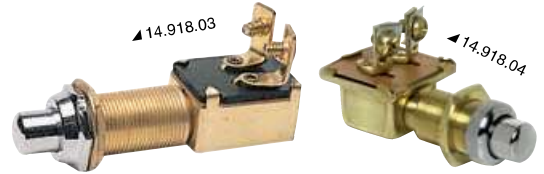
Code	Warning light	Neck mm	V
14.955.01	 Red	11,5x24	12
14.955.02	 Green	11,5x24	12



Culver push button


Chromed brass push buttons, fitted with **silver plated** contacts, guaranteed function.

Code	Version	Necl mm
14.918.03	Standard	15x25
14.918.04	Watertight case	15x25



Push button

Made of nylon with chromed brass ring and nut. Fitted with brass contacts and 100% watertight rubber protective cap. Max load 30 A at 12V. Shaft 15x28 mm.

Code	Color
14.910.00NE	 black
14.910.00RO	 red



Thermal toggle switch, resettable model

Fitted with lighted toggle, designed to light electrical panels.

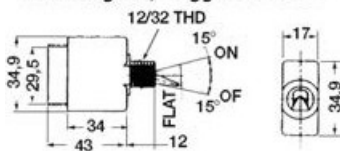
Code	V	Amp	Panel hole mm	Frame mm
14.732.05	12	5	28x13,5	32,25x16,07
14.732.10	12	10	28x13,5	32,25x16,07
14.732.15	12	15	28x13,5	32,25x16,07



AIRPAX/SENSATA toggle handle hydraulic magnetic circuit breaker with rechargeable automatic fuse



Polo singolo / Toggle & botton



No need of fuses. Designed to stand overloads of up to 50% for a few seconds. They immediately disconnect in case of short circuit and cannot be reactivated until the problem is solved. **Very compact**, similar to traditional circuit breakers.

Code	Body	A	Connectors	Neck Ø mm	Rubber cap	mm
14.738.05	black polycarbonate	5	Faston	12,7	14.738.00	17x34,9 (front), depth 34
14.738.10	black polycarbonate	10	Faston	12,7	14.738.00	17x34,9 (front), depth 34
14.738.15	black polycarbonate	15	Faston	12,7	14.738.00	17x34,9 (front), depth 34
14.738.20	black polycarbonate	20	Faston	12,7	14.738.00	17x34,9 (front), depth 34

Watertight cover made of rubber for tumbler switches



Code	Description	ORDER BY BOX
14.738.00	Equipped with brass ring. Couple to 14.738.05/10/15/20	10

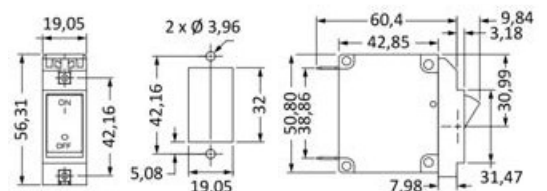
AIRPAX/SENSATA toggle handle hydraulic magnetic circuit breaker with rechargeable automatic fuse

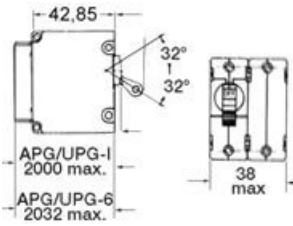
Designed on purpose for the marine environment. In case of heavy overload (i.e.: short circuits), the circuit breaker disconnects instantaneously; for overloads up to 50% it maintains the contact for few seconds so, in case it is due to a chance event, it has time to return within the limits without interrupting the power supply. In case of short circuit, the switch cannot be reactivated until the problem is solved.

- **Toggle handle circuit breaker** - Toggle actuator, IAG series, universal 12/220 V, front recess in the panel, 16-mm Ø.
- **Flat flush toggle circuit breaker** for horizontal or vertical mounting - Flat actuator with flush toggle, coloured light indicator for OFF position. IEGB series, universal 12/220 V, front recess in the panel 32x19-mm.



switch with overhanging lever	Flush mount lever switch		Universal power	Power A
	horizontal mounting	vertical mounting		
14.736.05	14.740.05	14.739.05	DC/AC 12/220 V	5
14.736.10	14.740.10	14.739.10	DC/AC 12/220 V	10
14.736.15	14.740.15	14.739.15	DC/AC 12/220 V	15
14.736.20	14.740.20	14.739.20	DC/AC 12/220 V	20
14.736.50	14.740.50	14.739.50	DC/AC 12/220 V	50

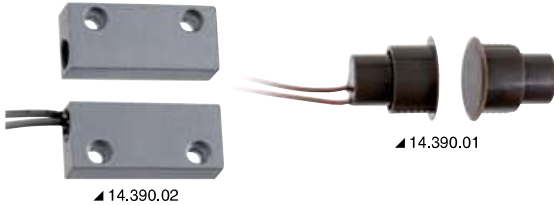




AIRPAX / SENSATA hydraulic/magnetic circuit breaker, 2 poles, AC

For 80V onboard applications.

Code	Universal power	Capacity A	Black frame size mm	Mounting with	Depth mm
14.734.05	DC MAX 80 V	5	19x51	2 screws	41
14.734.10	DC MAX 80 V	10	19x51	2 screws	41
14.734.20	DC MAX 80 V	20	19x51	2 screws	41
14.734.25	DC MAX 80 V	25	19x51	2 screws	41
14.734.30	DC MAX 80 V	30	19x51	2 screws	41



New Circuit breaker

Easy-to-install safety magnetic circuit breaker. It stops the current flow when the two parts come into contact. It opens the circuit at a 15-mm distance. Ideal for wet bars with electric cooking ranges, hydraulic/electric gangplanks, end-of-stroke devices for electric tables.

Code	Mounting	Fastening	Version	Material	mm	A
14.390.01	Recess	Adhesive	Round	ABS	∅19 x 23	0,5
14.390.02	External	Screws	Rectangular	Zinc alloy	31x14x7,5	0,5

Kill Cords



Kill cords

With pull-out lace and snap hook.

Code	For engines
14.203.01	Tohatsu
14.203.02	Johnson / Evinrude 3-arm fork version (until 1995)
14.203.03	Johnson / Evinrude standard fork version (after 1995)
14.203.04	OMC/Honda (old version)
14.203.05	Yamaha (up to 2014; 9-mm ∅)
14.203.09	Yamaha (since 2015; 13,9-mm ∅)
14.203.06	Mercury/Mariner
14.203.07	Suzuki/ Jonhson 4 strokes
14.203.08	New Honda



Safety key kit for outboard engines

Fitted with extensible lace, snap-hook and 11 keys.

Code	Engines
14.203.10	Johnson / Evinrude (old and new model) / Yamaha / Honda (old and new model) / Mercury / Suzuki (old and new model) / Tohatsu (2 and 4 strokes), Kawasaki



Ignition safety cut-off device (complying with regulations)

Made of chromed brass, fitted with front and back watertight cover.

Code	Use
14.919.03	Take off red cap to close circuit
14.919.04	take off grey cap to open circuit



Ignition safety cut-off device (complying with regulations)

Fitted with slip-off clip system, **universal** size, it can **open and close** the circuit depending on the terminals that are connected.

Code	Description	Spare key
14.204.92	Fitted with safety key and float	14.204.94
14.204.96	Fitted with safety key	14.204.98 also suitable for Selva, Johnson, Evinrude, Honda

Safety switch - it cuts off the current

IP65

Built-in mounting on the dashboard or near the control boxes. Manual or automatic activation in case the pilot falls overboard.

Code	Description	Model	↔ mm
14.204.90	Safety switch	Universal	70x50



FELL MARINE MOB wireless engine cut-off switch

An effective safety system that automatically shuts off the engine as soon as the xFOB transmitter gets submersed in at least 10 cm water or out of the xHUB receiver wireless range (12 m).

With the MOB basepack you get an xHUB receiver to mount in your boat and an xFOB portable transmitter for the boater.

You can also add 3 additional xFOB to your system (total of 4) if you have several users on your boat (kids, pets).

Click the button on your xFOB and the engine can be started.

If the xFOB is flat or out of the MOB wireless range, the engine can be started via the xHUB. **6 seconds after the MOB activation, the engine can be started again.** If the xHUB isn't connected to an engine, it will anyway give a sound signal should a fall over board occur.

Wear your xFOB with the following accessories:

- xBAND silicone wristband.
- xTAG complete kit for carrying the xFOB on your belt or on your lifevest.
- xTAG band for carrying the xFOB around your neck.

Universal installation on all engine brands. 12/24V compatibility. The xFOB CR2032 battery has up to 300 hours battery life when connected and can be easily replaced.

Code	Description
14.968.02	MOB basepack (grey xHUB + xFOB)
14.969.01	xFOB with battery
14.969.10	Red silicone xBAND
14.969.11	Black silicone xBAND
14.969.12	Yellow silicone xBAND
14.969.31	xTAG, 1 clip-on + red wristband



14.968.02

MOB+
WIRELESS KILL SWITCH



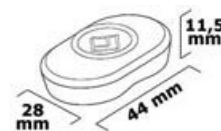
Video



14.969.10



14.969.12/11/10



14.969.01



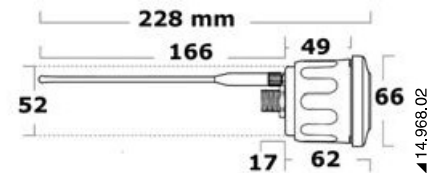
14.969.01



14.969.01 - Transmitter to be worn



14.968.02 - Onboard receiver



14.968.02



14.969.31



14.969.31

Model ELITE electrical control panels



Backlit carbon-fiber panels for Flat switches

Stylish carbon-fiber and 316 stainless steel panels with 20A switches (stainless steel button). Carefully designed, they feature a bezel hidden by screws, backlit stickers for the buttons and a 3D carbon-fiber finish for the panel. 40 assorted stickers included. IP66 degree protection against powerful water jets coming from any direction. Watertight gasket included.

Code	V	LED colour	No. of switches	Total Amp every 2 switches	external mm	Hole in panel mm
14.850.10	12	Red	5 (ON-OFF) + 1 (ON MOMENTARY)	25	64x169	32x150
14.850.11	12	Blue	5 (ON-OFF) + 1 (ON MOMENTARY)	25	64x169	32x150

OSCOLATI



Vertical electric control panel

Switches with rubber cap and 6x32mm glass fuse holder. **Grey aluminium** panel. IP56 protection degree. ON-OFF switches except the first (ON-OFF-ON) and the last (ON-OFF) with spring return for horn.

Code	No of switches	mm
14.801.00	3	90x70
14.701.00	6	170x70
14.703.00	5 + socket/lighter plug	170x70



Horizontal electric panel

Protection level IP56. The first switch has 3 positions (ON-OFF-ON) with 2 separated circuits, the last has momentary ON position for horn. 15-A ensured load fitted with rubber cap and glass fuse holder size 6x32mm. **Grey anodized aluminium** panel.

Code	Color	Watertight switches	mm
14.707.00	grey	4	140x80 horizontal



Elite electric control panel

ON-OFF switches except the first (ON-OFF-ON) and the last (ON-OFF) with spring return for horn. IP56 protection degree. **Light** toggle switches. **Resettable** automatic fuses. **Aluminium** panel coated with epoxy resins.

Code	No of switches	Resettable fuses	mm
14.800.00	3	2 - 10A 1 - 15A	90x90
14.700.00	6	1 - 5A 3 - 10A 2 - 15A	170x90
14.705.00	5 + 1 power outlet/lighter plug	3 - 10A 2 - 15A	170x90



Nylon control panel

With illuminated rocker switch. Watertight, injection moulded, black colour.

Code	Version	No of switches	max Amp load	Included	glass fuses size mm	mm
14.103.31	vertical	6	10 each	-	6x32	165x114
14.103.32	horizontal	6	10 each	-	6x32	114x165
14.103.34	vertical	4	10 each	-	6x32	127x114
14.103.35	vertical	3 +	10 each	1 horn button + 1 voltmeter	6x32	127x114
14.103.38	vertical	6	10 each	10 Amp automatic fuses	-	165x114

Wave Design electric control panel with rocker switches and LED on/off indicating lights

IP54

Made of black plastic, equipped with toggle switches and resettable thermal automatic fuses. Equipped with sticking labels to identify the different uses.



Code	No of switches	Fuses included	mm
14.104.01	4	4Ax1 + 6Ax1 + 8Ax1 + 10Ax1	110x100
14.104.02	6	5Ax2 + 10Ax2 + 15Ax2	160x100
14.104.03	8	4Ax1 + 5Ax2 + 6Ax2 + 8Ax2 + 10Ax1	210x100
14.104.04	3 + 1 lighter plug	4Ax1 + 6Ax1 + 8Ax1 + 10Ax1 (power outlet)	125x100
14.104.05	3 + 12 V voltmeter	4Ax1 + 6Ax1 + 8Ax1	110x100
14.104.06	5+1 lighter plug	5Ax2+10Ax2+15Ax2	180x107
14.104.07	5 + 12 V voltmeter	5Ax1+10Ax2+15Ax2	160x107
14.104.08	3/30 V voltmeter + lighter plug. Kit compatible with any panel series 14.104.01/02/03/04/05	-	54x100
14.104.09	3/30 V voltmeter + dual USB plug. Kit compatible with any panel series 14.104.01/02/03/04/05	-	54x100



Electrical panels with automatic fuses and double LED.

IP65

Body made of dark grey polycarbonate. Steady green LED lights up the labels indicating the different functions. Red LED switches on when in ON position. Hidden mounting screws. First ON-OFF-ON switch with 2 separate circuits and ON-OFF return switch for models 14.850.05/06.

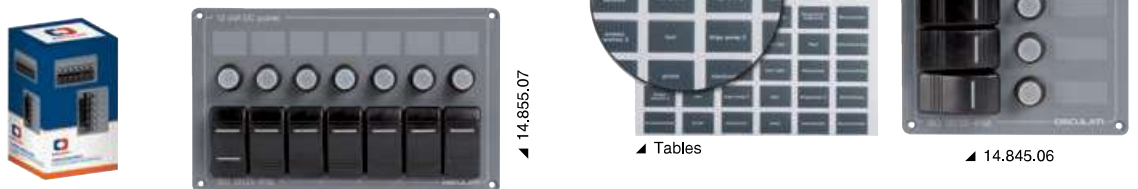
Code	V	No. of switches	Automatic fuses	Max total Amp	mm
14.850.06	12	6	3x10A + 3x5A	37	165x115
14.850.05	12	5 + (watertight) USB	2x10A + 3x5A	37	165x115
14.850.04	12	4	2x10A + 2x5A	37	124x115



Electric control panel made of aluminium and fitted with grey polycarbonate front panel

Equipped with watertight **rocker switches**, with built-in **ON pilot light**. The first switch has 3 positions ON-OFF-ON with two separate circuits, the last one is a spring switch for the horn. Supplied with automatic watertight fuses (14.845.06: 3 x 10 A, 2 x 15 A, 1 x 20 A; 14.855.07: 4 x 10 A, 2 x 15 A, 1 x 20 A). Protection level IP56. Includes polycarbonate self-adhesive labels, for various functions, in Italian, English and German.

Code	Progressive	Switches	Circuits	mm
14.845.06	vertical	6	7	171x135
14.855.07	horizontal	7	8	207x124



PCP Compact electrical panel with circuit breaker and LED

IP66

Black polycarbonate cabinet. Toggle switches with built-in enabling LED. Equipped with resettable automatic circuit breakers. Utilities with **RED LED** backlit writings when out of service and **GREEN LED** when activated.

Code	No of switches	Switch type	Circuit breaker power	mm
14.860.04	4	3 x ON-OFF; 1 x (ON)-OFF	1x5A; 2x10A; 1x15A	131x100
14.860.06	6	5 x ON-OFF; 1 x (ON)-OFF	2x5A, 2x10A; 2x15A	183x100
14.860.08 New	8	7 x ON-OFF; 1 x (ON)-OFF	2x5A; 4x10A; 2x15A	235x100





Electric control panel with flush rocker switches

Including switches model 14.196.01 fitted with LEDs which light up in ON position, and resettable automatic thermal breakers. IP65. PCB electronic board illuminates the function signs.

Code	Finish	No of switches	Fuses A	mm
14.843.03*	Polished graphite	3	1x5 + 1x10 + 1x15	124x115
14.843.05	Polished graphite	5	2x3 + 1x6 + 1x8 + 1x10	165x115
14.843.09**	Polished graphite	8 + 1 socket/lighter plug	2x5 + 5x10 + 2x15	282x115
14.844.05	Mahogany coated	5	2x5 + 2x10 + 1x15	165x115
14.844.09**	Mahogany coated	8 + 1 socket/lighter plug	2x5 + 5x10 + 2x15	280x115

* First switch ON-OFF-ON with 2 separate circuits

** A spring switch for horn



Additional modules for panels

To be aligned with panels 14.860.04/14.860.06 or to be used independently.



Code	Function	mm
14.861.01	Power socket	60 x 100
14.861.02	Double USB (2.1+1.0 A)	60 x 100
14.861.03	Lighter plug	60 x 100
14.861.04	12/24V digital voltmeter	60 x 100
14.861.05	Double digital voltmeter batt1/batt2	60 x 100
14.861.06	Manual/automatic bilge pump switch	60 x 100
14.861.12 New	Double USB A+C (2.1+1.0 A)	60 x 100

Additional modules for PCP Compact panels fit with circuit breaker + LED



Ultra-thin touch-control electric panel including panel + USB cable + Control Box

Unit including:
- Ultra-thin backlit diaphragm control panel with touch switches and LED warning light on each single active function. IP67.

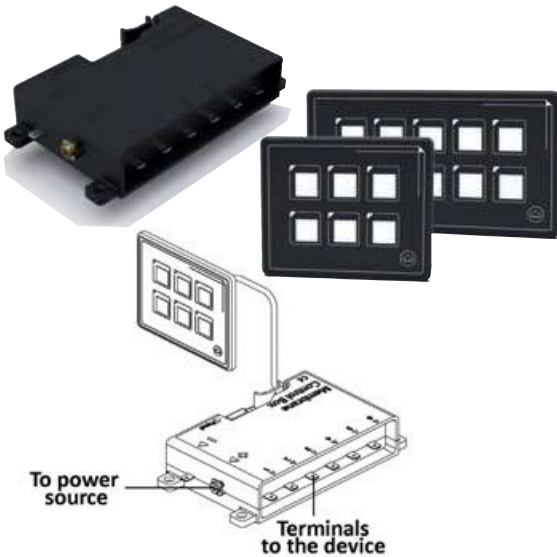
It comes with 60 stickers showing several symbols to be applied on the switches.

Switches can be reset from ON-OFF to (ON)-OFF.

- 1-m long standard Micro-USB cable to connect panel to Control Box. It can be replaced by any Micro-USB cable.

- Control Box fitted with 10A auto-resettable fuses.

Code	V	No. of switches	A per switch	Max total A	Panel mm	Control Box mm
14.690.07	12	6	10 @ 12 V	35	91x75	136x90x32
14.690.10	12/24	10	10 @ 12 V	60	130x75	214x95x29



Touch electric panel with settable central unit

14.691.04/06 **NEW**

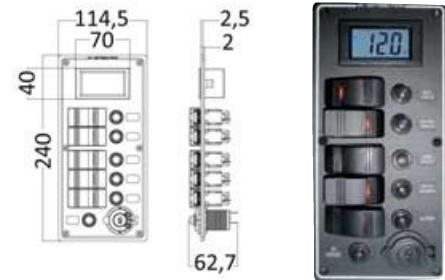
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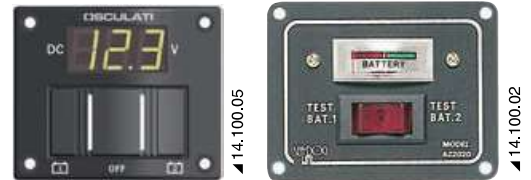
Electrical panel PCAL series with 9/32V digital voltmeter**IP66**

Aluminium frame with black epoxy resin coating. Toggle switch with built-in activation LED. Watertight plug. Automatic resettable circuit breaker.

Code	Switches	Circuit breaker power	↔ mm
14.863.05	1st = 3 positions for circuits (navigation lights) ON1 + ON2 + OFF; 2nd/3rd/4th = ON-OFF; 5th = temporary ON-OFF (horns)	1x5A; 3x10A; 1x15A; 1x15A (socket)	240x115

**Panel with tester for 2 batteries and activation switch**

Code	Indicator	Switch	Panel	↔ mm
14.100.02	Analog	Light toggle	Black anodized aluminium	64x83
14.100.05	Digital	IP56 dual LED toggle	Technopolymer	75x60

**Digital voltmeter display**

Digital touchscreen to control 2 x 12V batteries.

Code	Frame	↔ mm
14.659.01	Dark grey	60 x 60

**Watertight electric control panel**Fitted with rubber caps. Equipped with voltmeter and battery isolator 14.385.00. Supplied with **led light check panel**. The fuses are separated on each switch. Watertight fuse holder. It requires standard glass fuses.

Code	Switches	Switches A	Fuse size mm	↔ mm
14.708.00	10	15	6x32	270x160

**Watertight electric control panel with circuit breakers**Fitted with rubber caps. Equipped with voltmeter and battery isolator 14.385.00. Supplied with **LED light check panel**. The fuses are separated on each switch. Watertight fuse holder requiring standard glass fuses. Fitted with Airpax fully **automatic** circuit breakers 14.736.10/20.

Code	Switches	Switches A	↔ mm
14.709.00	10	15	270x160

**Electric control panel with 14 switches**Equipped with voltmeter and ammeter, and battery isolator 14.385.00. Equipped with extra bright **LED light check-panel**. The LEDs lights up when a switch is activated.

Code	Label	switch	Fuses mm	↔ mm
14.808.01*	sail yacht	15 A	6x30	327x285
14.809.00	power yacht	automatic thermo-magnetic "Airpax" 14.736.05; 14.736.10; 14.736.15; 14.736.20	-	327x285
14.809.01	sail yacht	automatic thermo-magnetic "Airpax" 14.736.05; 14.736.10; 14.736.15; 14.736.20	-	327x285

* Fitted with watertight switch, coated with rubber and standard glass fuses.

**AC power control panel, 220 V**

Fitted with Airpax resettable automatic circuit breakers (1 x 5A, 3 x 5A, 1 x 15A) + switch LED lights + 30 m A and 25 A bipolar life saver switch + "power indicator" LED light + "polarity inversion" LED light + 0/300 V voltmeter.

Code	Magneto-thermic switches	↔ External mm	Coupled with panel
14.810.22	5	140x285	14.809.00; 14.809.01



Ignition keys and accessories for instrument panel



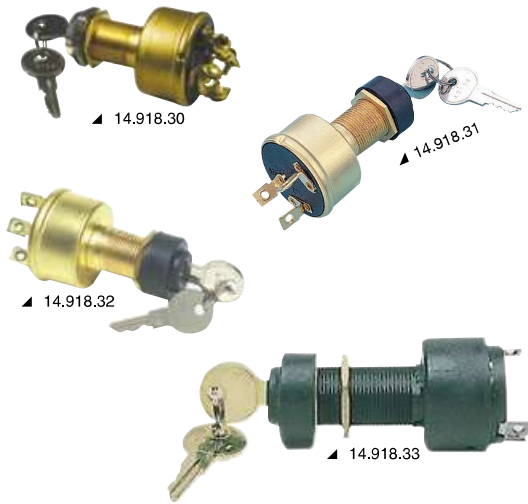
Watertight ignition key IP65

Fitted with removable key, which **activates selected systems** such as the bilge pump, water level or petrol level without powering the whole boat. Watertight seal by means of a cap on the key hole. The additional function **cannot be activated by error** as the key must be turned to the left and pushed in. Universal model for petrol or diesel engines, fitted with **nylon** body, **stainless steel**, **nylon** and **rubber** cap.

Code	Positions	Amp	Key watertight cap only
14.135.00	0 (removable key) + 1 (contact) 2 (return spring ignition) + left additional function of 0	30	14.135.01

Watertight cap for key

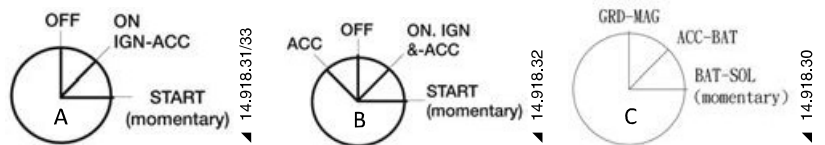
Code	Just the key watertight cap	Can be applied to keys
14.135.01	14.135.00	14.918.31/33 and all Ø 22,5 mm neck keys



Watertight ignition key

Watertight due to its **rubber** key-protection cap.

Code	Version	Rubber cover	A	Rear contacts	Positions
14.918.30	brass	No	15	5	3 (see layout C)
14.918.31	brass	Yes	15	3	3 (see layout A)
14.918.32	brass	Yes	15	4	4 (see layout B)
14.918.33	black nylon	Yes	10	3	3 (see layout A)



Ignition solenoid

High-quality material, sturdy and efficient.

Code	Body made of	V	Insulating terminal	Ø mm
14.918.34	bakelite	12	1	54
14.918.35	bakelite	12	2	54



LED light for instrument panel

Made of **watertight chromed brass**.

Code	Color	Threaded body Ø mm	V
14.185.01	red	18	12/24
14.185.02	green	18	12/24

Battery boxes

OSCOLATI




Battery box, watertight with ventilation

Made in accordance with ISO 10133 standards, equipped with mounting system.

Code	Made of	For batteries max A-h	←→ mm		PACKAGE
			internal	external	
14.545.00	Grey/blue mopen	100	360x185x220h	420x245x270h	6

Battery box

With fastening strap and buckle

Code	Made of	For batteries max A-h	←→		Fastening band for spare battery	Band length cm	 PACKAGE
			inside mm	outside mm			
14.546.00	Black moplen	95	265x175x205h	360x240x270h	14.546.03	95	10
14.546.01	White/red moplen	100	320x177x190h	370x210x250h	14.546.03	95	10
14.546.02*	White/yellow moplen	120	384x177x205-->235	440x240x260-->290	14.546.04	110	10

* Equipped with separation diaphragm to house smaller batteries. Moreover, the cover it is supplied with can be heightened by 30mm by means of 4 shims in order to house 235-mm high instead of 190-mm high 120A batteries.



▲ 14.546.02



▲ 14.546.04



▲ 14.546.03



▲ 14.546.02



▲ 14.546.02



▲ 14.546.01

▲ 14.546.00

Battery box up to 200 A-h

Fitted with cover, designed to hold high-capacity batteries, from 120 A-h to 220 A-h (similar to Osculati products 12.408.01/03/04). In compliance with DIN standards for **any brand**.

Code	For	Made of	Base mm	Height mm	←→ mm	
					internal	external
14.544.01	1 battery	Polyethylene	300x600	320	537x237x280 h	605x305x300
14.544.02	2 batteries	Polyethylene	520x585	320	540x470x275 h	600x535x300



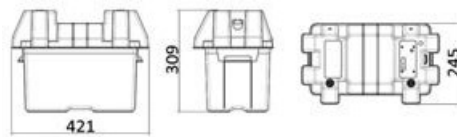
▲ 14.544.01

▲ 14.544.02

Power Center Deluxe

Fitted with external clamps, battery charge LED indicator and accessories.

Code	Made of	Accessories	For batteries max A.h	←→ mm	
				inside	outside
14.547.02	Polypropylene	Watertight power socket with 10A automatic fuse + 2x2,4A watertight dual USB port	105	318x175x257h	421x245x309h



Double plate designed to fasten batteries or tanks



Fitted with 135-cm strap, adjustment buckle, 2 plastic plates, 2 jumpers and 8 A2 7982 3.9x16-mm screws.

Code	Made of	←→ mm
14.548.00	plastic	118x105

Battery tray



Anti-skid features, keeps the battery on a firm position and collects any acid leakage.

Code	Made of	Batteries up to A-h	←→ mm
14.549.01	black rubber	80	280x177
14.549.02	black rubber	125	355x177

VICTRON battery chargers and devices

 victron energy
BLUE POWER



VICTRON Bluesmart IP65 battery charger with Bluetooth connection

IP65

These battery chargers with built-in Bluetooth enable you to set and configure the information of your charger from your smartphone, tablet or computer, using the VictronConnect app.
180-265 V AC power supply, charge level LED indicator.
Seven step smart charge algorithm, ideal for sealed batteries. Suitable for any kind of batteries, Li-ion batteries included. Automatic compensation for high or low temperature. Low power mode to charge smaller batteries. Recovery of fully discharged 'dead' batteries. Automatic power supply function.

Accessories included: Connect clamps, M8 eyelet connectors.

Code	Type	Outlet V	Max charge current A	No of outlets	←→ mm	kg
14.273.06	12/4	14,4	4	1	47x95x190	0,9
14.273.08	12/7	14,4	7	1	47x95x190	0,9
14.273.11	12/10	14,4	10	1	60x105x190	0,9
14.273.16	12/15	14,4	15	1	60x105x190	0,9
14.273.14	12/25	14,4	25	1	75x140x240	0,9
14.273.19	24/13	28,8	13	1	75x140x240	0,9



14.273.20 6-mm cable with eyelets (motor battery)

14.273.21 OPTIONAL standard cigarette lighter plug cable

14.273.22 Cable with pliers

 victron energy
BLUE POWER



VICTRON Bluesmart IP67 battery charger with Bluetooth connection

IP67

The Victron-connect App connects your smartphone, tablet or computer via Bluetooth to your battery charger for initial configuration and data upload.

180-265 VAC input voltage range. 4-stage charge algorithm: BULK - ABSORPTION - FLOAT - STORAGE. Less maintenance and aging when the battery is not in use: the STORAGE MODE. Protected against overcharge, short circuit and overheating. With 92% efficiency or better, these chargers waste three to four times less heat.

Code	Type	Outlet V	Max charge current A	No. of outlets	←→ mm	kg
14.273.13	12/13	14,4	13	1	85x211x60	1,8
14.273.18	12/17	14,4	17	1	99x219x65	2,4
14.273.26	12/25	14,4	25	1	99x219x65	2,4
14.273.28	24/12	28,8	12	1	99x219x65	2,4

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BLUE POWER



VICTRON Bluesmart IP22 Bluetooth-enabled battery charger

IP22

Use the App Victron-connect to connect this battery charger to your smartphone, tablet or computer via Bluetooth in order to perform the first configuration and see all the charge data.

Universal power supply: 180/265 VAC 45/65 Hz 250/350VDC.

6-stage charge: TEST - BULK - ABSORPTION - RECONDITION - FLOAT - STORAGE, with LED for charge level control.

Microprocessor control system to adapt the charge type to the battery requirements.

Protection against: short circuit, reverse polarity, overtemperature.

Storage mode to automatically reduce float voltage to 13,2V to minimize gassing and corrosion of the positive plates.

IP22. Suitable for any battery type, Li-ion included.

Code	Type	Output V	Charge max current A	No of outputs	←→ mm	kg
14.272.10	12/15	14,4	15	1	235x108x65	1,4
14.272.12	12/20	14,4	20	3	235x108x65	1,4
14.272.14	12/20	14,4	20	1	235x108x65	1,4
14.272.15	12/30	14,4	30	3	235x108x65	1,4
14.272.16	12/30	14,4	30	1	235x108x65	1,4
14.272.18	24/16	28,8	16	3	235x108x65	1,4
14.272.17	24/16	28,8	16	1	235x108x65	1,4

VICTRON Phoenix Smart battery charger

IP43

- Bluetooth-enabled device that can be used to monitor, change settings, and to update the charger.
- The 1+1 output configuration provides 3 Amps to the second outlet, ideal for maintaining a starter battery.
- The 3-output configuration can provide full power to each outlet.
- Voltage automatic compensation to balance voltage drops in DC cables.
- Adaptive 5-stage charge algorithm: bulk – absorption – recondition – float – storage.
- Calibrated charge depending on whether the vessel is connected to the dock AC supply.
- BatterySafe protects your battery from gassing.
- Storage mode to prevent gassing and corrosion of the plates whenever the battery has been idle for 24 hours.
- Universal power 90/265 VAC 90/400 VDC-45/60 Hz.
- Protection against overvoltage, short circuit, overtemperature.
- Also suitable for Li-ion batteries.
- Intelligent charge algorithm (via Bluetooth).
- Remote on/off.
- VE.Direct port.



Code	Type	Output V	Max charge current A	No. of outputs	mm	kg
14.266.11	12/30	14.4	30	3	180x249x100	3,5
14.266.13	12/50	14.4	50	3	180x249x100	3,5
14.266.16	24/16	28.8	16	1+1	180x249x100	3,5
14.266.17	24/16	28.8	16	3	180x249x100	3,5
14.266.18	24/25	28.8	25	1+1	180x249x100	3,5
14.266.19	24/25	28.8	25	3	180x249x100	3,5

14.207.30 2m-CE-electric cable

VICTRON Centaur analogic battery chargers

3-stage IUOU charge automatic chargers, independent outlets to charge 3 banks at the same time - full power battery.

- Technical data:
- Aluminium frame
 - Universal supply: 90/265VAC - 90/400 VDC - 45/65 Hz
 - Analogic ammeter
 - Internal temperature sensors, forced ventilation
 - Protections against short circuit, overheating
 - Acid-GEL-AGM battery selection.



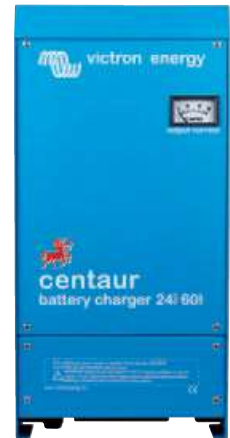
▲ 14.270.30



▲ 14.270.36



▲ 14.100.06



Code	Type	Outlet V	Max charge A	No of outlets	Recommended for batteries A-h	mm	kg
14.274.02	12/30	14,3	30	3	120/300	355x215x110	3,8
14.274.03	12/40	14,3	40	3	160/400	426x239x135	5
14.274.05	12/60	14,3	60	3	240/600	426x239x135	5
14.274.06	12/80	14,3	80	3	320/800	505x255x130	12
14.274.07	12/100	14,3	100	3	400/1000	505x255x130	12
14.274.09	24/30	28,8	30	3	120/280	426x239x135	5
14.274.10	24/40	28,5	40	3	160/400	505x255x130	12
14.274.11	24/60	28,5	60	3	240/600	505x255x130	12

14.270.30 Battery alarm panel, a sound or visual alarm warns about too high or too low voltage

14.100.06 BMV-700 Battery monitor

VICTRON Phoenix microprocessor battery charger

The 'adaptive' control with microprocessor perfectly adapts the charge to the battery requirements (very important function in case of sealed batteries). 4-stage charge: bulk-absorption-float storage. The storage function automatically reduces to 13.2V/26.4V the FLOAT function thus minimizing gasification and corrosion of the positive plates.

Technical data: Aluminium frame; Universal supply: 90/265VAC - 90/400 VDC - 45/65 Hz; Control LED lights; Internal temperature sensors; Cable voltage drop compensation; Protections against short circuit, polarity inversion, overvoltage, overheating, high voltage of the battery.



▲ 14.270.36



▲ 14.270.30

Code	Type	Outlet V	Max charge A	Outlets	Recommended for batteries A-h	mm	kg
14.266.01	12/30	14.4	30 + 4	2 + 1*	100/400	350x200x108	3,8
14.266.02	12/50	14.4	50 + 4	2 + 1*	200/800	350x200x108	3,8

* 2 full outlets + 4 A limited outlet dedicated to starting batteries

14.270.30 Battery alarm panel, a sound or visual alarm warns about too high or too low voltage

14.270.36 PHOENIX control panel. It monitors the charge level and ensures the reduction of outlet DC current if the inlet AC power is low. It also enables to modify the battery charge parameters. RJ45 cable required.

14.270.47 RJ45 7-m cable.

14.100.06 BMV-700 Battery monitor



▲ 14.270.47



▲ 14.100.06



▲ 14.267.01/02



▲ 14.270.30



▲ 14.270.37



▲ 14.270.33



▲ 14.100.06

VICTRON TG microprocessor battery charger

3-stage IUOU charge with microprocessor that perfectly adapts the charge to the battery requirements (very important function in case of sealed batteries). Two isolated outlets, the second (4 A) dedicated to the starting batteries. Battery temperature compensation automatic system (it extends the life of sealed batteries).

Technical data: 180/264 VAC - 180/400 VDC - 45/65 Hz power supply; Aluminium housing; Internal temperature sensors + battery temperature sensor; Forced ventilation; Protections against short circuit, polarity inversion, overheating.

Code	Model	Type	Outlet/inlet V	Max charge current A	Outlets	Recommend for batteries A-h	mm	kg
14.267.01	TG	24/30	28,5 / 230VAC	30 + 4	1 + 1	150/300	365x250x147	5,5
14.267.02	TG	24/50	28,5 / 230VAC	50 + 4	1 + 1	250/500	365x250x147	6,5

▲ 14.270.37 SKYLLA control panel. It monitors the charge level and enables to reduce outlet AC current if the inlet AC power is low.

▲ 14.270.33 Remote chargeswitch

▲ 14.270.30 Battery alarm panel: audio/visual alarm in case of high/low voltage.

▲ 14.100.06 BMV-700 Battery monitor



▲ 14.267.05/06

▲ 14.267.03/04

VICTRON Skylla-i 24 V microprocessor battery charger

- Parallel synchronized operation.
- The right amount of charge: variable absorption time.
- BatterySafe mode: preventing damage due to excessive gassing.
- Storage mode: less maintenance and aging when the battery is not in use.
- Temperature compensation to extend the battery life.
- 185-265 VAC supply.
- Li-ion ready.

Code	Model	Type	Outlet/inlet V	Max charge A	Outlets	Recommended for batteries A-h	mm	kg
14.267.03	Skylla-i	24/80	28,8	80	3	400/800	402x250x140	8
14.267.05*	Skylla-i	24/80	28,8	80+4	1+1	400/800	402x250x140	8
14.267.04	Skylla-i	24/100	28,8	100	3	500/1000	402x250x140	8
14.267.06*	Skylla-i	24/100	28,8	100+4	1+1	500/1000	402x250x140	8

▲ 14.270.38 SKYLLA-I control panel. It monitors the charge level and enables to reduce outlet current if the inlet power is low. Cable RJ45 required.

▲ 14.270.47 RJ45 7-m cable

▲ 14.100.06 Battery monitor

* 2 independent outputs: first full charge 80/100 A, second charge 4 A dedicated to starting batteries.



▲ 14.270.38



▲ 14.270.47



▲ 14.100.06



▲ 14.100.06



▲ 14.100.07



▲ 14.270.38

VICTRON Skylla IP65 battery charger with microprocessor

IP65

Splash-proof version, 3-stage IUoUo charge with microprocessor control system to exactly determine the state of charge of the battery. It features 3 isolated outputs. All outputs can supply the full rated output current, Automatic temperature compensation with internal sensors, forced cooling, acrylic resin coating for electronic board, short circuit protection, overvoltage, reverse polarity, Cable voltage loss compensation. **Perfect voltage control** so the battery charger can be used as **power supply**. Several chargers can be connected in parallel via RJ45 cable and synchronised with help of the CAN bus interface. **LCD display control panel**.

Code	IP	Type	Input/output V	Charge voltage (absorption) V	Charge max current A	No of outputs	mm	kg
14.267.20	65	12/70/3	90/265	14,4	70	3	401x300x165	6
14.267.21	65	24/35/3	90/265	28,8	35	3	401x300x165	6

▲ 14.270.38 SKYLLA-I control panel. It monitors the charge level and enables to reduce outlet current if the inlet power is low.

▲ 14.100.06 BMV-700 Control panel for 1 battery.

▲ 14.100.07 BMV-702 Control panel for 2 batteries.

VICTRON battery monitor

This digital monitor displays the status of any battery: voltage, state of charge (Ah or %), time to go, charge/discharge current, current and ampere-hours consumed and instant consumption. Visual and audible alarm. It comes with connection cables and shunt.

Code	Model	Version	Monitor for	V	Bore Ø mm
14.100.06	BMV-700	Standard	1 battery	9/90	52
14.100.07*	BMV-702	Standard	2 batteries/battery arrays	9/90	52
14.100.08	BMV-712	Standard + Bluetooth connection to smartphones and tablets	2 batteries/battery arrays	9/90	52

* It stores previous events to evaluate the battery conditions. Programmable relay to disconnect the power supply (with low battery) from non-essential services or to activate the generator.

**VICTRON MULTIPLUS battery charger + inverter combo system**

This system combines a pure sine wave inverter and a sophisticated battery charger using adjustable recharge technology. Compatible with lithium batteries.

Two AC outlets. In case of power shortage from the dock or from the generator, the system continuously feeds what's connected.

The second outlet is available in case of AC source, only. The devices, such as boilers, which might run the battery down should be connected to this outlet.

Parallel + three-phase function. Up to 6 units can be connected in parallel. For the three-phase current, 3 units of the same kind can be connected. Up to 6 series of 3 units each can be connected in parallel.

Power control: the very powerful multiplus device can absorb a lot of power from the dock or the generator. By means of the multicontrol panel (14.270.32), the current draw can be monitored and a maximum limit can be set. Depending on the limit set, the multiplus device will only use the remaining energy to charge the batteries.

Power assist: whenever a power peak is required for a short period, the multiplus device will offset the power shortage drawing energy from the battery. When the current draw drops, the surplus current is used to recharge the batteries.

The micro-processor operated battery charger is fitted with a 4-stage bulk-absorption-float-storage charge system similar to the Phoenix/Skylla battery chargers.

- Aluminium body

- Protection devices against short circuit, overcharge, too low or too high battery, high ripple frequency, etc.



Code	Type	DC supply V	Inverter Power W	Outlet V	Battery charge current A	No of outlets	mm	kg
14.268.00	12/500/20-16	9.5 - 17	500	230VDC ± 2%	20+1	1+1*	311x182x100	4.4
14.268.01	12/800/35	9.5 - 17	800	230VDC ± 2%	35+4	1+1*	360x240x100	6.4
14.268.02	12/1200/50	9.5 - 17	1200	230VDC ± 2%	50+4	1+1*	406x250x100	8.2
14.268.23	12/1600/70	9.5 - 17	1600	230VDC ± 2%	70+4	1+1*	465x270x120	10
14.268.26	24/1600/40	19 - 33	1600	230VDC ± 2%	40+4	1+1*	465x270x120	10
14.268.07	12/2000/80	9.5 - 17	2000	230VDC ± 2%	80+4	1+1*	520x255x125	12
14.268.09	24/2000/50	19 - 33	2000	230VDC ± 2%	50+4	1+1*	520x255x125	12
14.268.18**	24/3000/70-32	19 - 33	3000	230VDC ± 2%	70+4	1+1*	362x258x218	18
14.268.19	24/5000/120-100	19 - 33	5000	230VDC ± 2%	120+4	1+1*	444x328x240	30

* 1/4A second outlet for starter battery maintenance.

** 50A max commutable AC.

14.270.28 VE-Direct --> USB interface for computer connection (only for 14.268.00).

14.270.39 VE-Bus --> USB interface for computer connection.

14.270.32 Digital Multicontrol. Control panel for both inverter and battery charger. Inlet current management when switching from dock to generator. Triphase devices or devices in parallel can be managed. VE-BUS remote systems can be configured. RJ45 cord required.

14.270.47 RJ45 7-m cord to complete 14.270.39.

14.100.06 Battery monitor.

14.070.50 Color Control GX.





▲ 14.270.32



▲ 14.100.06



▲ 14.270.39



▲ 14.270.47

VICTRON Quattro combo system - Battery charger + Inverter

Same functions of the Multiplus system, but it can be connected to 2 independent AC sources (eg. dock and generator or 2 generators) and the Quattro system will **automatically** connect to the active source.

Code	Type	AC inlet (2x)	DC supply V	Inverter		Battery charger		No of outlets	↔ mm	kg
				Power V - A	Outlet V - AC	Charge voltage	Battery charge current A			
14.268.10	12/3000/120	187/265	9.5 - 17	3000	230	14.4	120±4	1+1*	362x258x218	19
14.268.11	24/3000/70	187/265	19 - 33	3000	230	28.8	70±4	1+1*	362x258x218	19
14.268.13	24/5000/120	187/265	19 - 33	5000	230	28.8	120±4	1+1*	444x328x240	30
14.268.14**	24/8000/200	187/265	19 - 33	8000	230	28.8	200±4	1+1*	470x350x280	41



* Second 4A outlet dedicated to the starting batteries.

14.270.32

Digital Multicontrol. Control panel for both inverter and battery charger. Possibility to manage the inlet current when switching from dock supply to generator supply. It can manage parallel and three-phase devices. It can be configured with several VE-BUS remote systems. Cable RJ45 needed.

14.100.06 Battery monitor.

14.270.47 7-m RJ45 cable for 14.270.39

14.270.39 VE-Bus --> USB interface for computer connection.

** Only available on order.



▲ 14.070.50



▲ 14.070.51

VICTRON GX series control panel

It provides control and monitoring (also in remote mode) of VICTRON devices. All readings on the screen can be forwarded to a remote computer via an external router (WebBoat4G PLUS, not included) for both monitoring and configuration. The GX series supports the following products: Inverter/Multi/Quattro/Skylia-i/Control panels/Battery monitors.

Code	Model	Version
14.070.50	Control GX	With colour display
14.070.51	Control VENUS GX	Without display



VICTRON isolation transformer

This device prevents all continuity between the onboard electric installation and the dock thus making the installation safer since it is isolated. It allows the automatic circuit breaker to activate correctly and avoids problems due to galvanic currents.

Code	Type	V	Power W	↔ mm	kg
14.264.01	2000	115/230	2000	375x214x110	10
14.264.02	3600	115/230	3600	362x258x218	23
14.264.03	7000	230	7000	362x258x218	26
14.264.04*	3600	115/230	3600	362x258x218	23

* Automatic selection of input voltage.



VICTRON 120/240V 32/100A isolation autotransformer

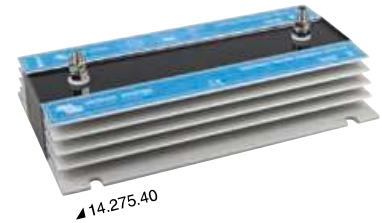
It is an electrical transformer with only one winding that has at least three taps where electrical connections are made. It drastically reduces ohmic losses and eliminates the need of electrical isolation between windings but, unlike dual-winding transformers, it doesn't provide electrical isolation between the primary and secondary side of the transformer. It is often used to step up or step down voltages in the 110/120 volt range and voltages in the 220/240 volt range. For example providing 120V from 240V input, allowing equipment designed for 120 volts to be used with a 240 volt supply.

Code	Input/output voltage	Max input current (240V)	↔ mm	kg
14.264.10	120/240 V; 50/60 Hz	32 A	375x214x110	10
14.264.11	120/240 V; 50/60 Hz	100 A	425x214x110	14

VICTRON galvanic isolator

They avoid galvanic corrosion when different metals are present onboard. The galvanic isolator prevents any galvanic current through the dock power cables.

Code	Peak current A	Max current A	mm	kg
14.275.40	1600/20 ms	16	60x120x200	1
14.275.41	1600/20 ms	32	63x164x235	2
14.275.42	1600/20 ms	64	64x164x224	2



VICTRON automatic switch

It automatically switches the dock/inverter power source

Code	V	W	mm
14.270.42	230	max 3500	120x255x75



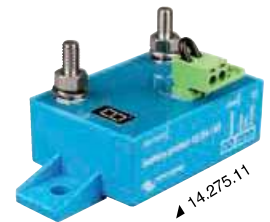
VICTRON battery protect

This device disconnects the battery from non essential loads before it is completely discharged or before it has insufficient power to start the engine.

Code	Max continuous current A	Peak current A	Operational field V	Disconnection V	Reconnection V	Disconnection time	mm	kg
14.275.11	65	100	6-35	10.5/21	12/24	90 seconds	40x48x106	0,2
14.275.12	100	600	6-35	10.5/21	12/24	90 seconds	59x42x115	0,5
14.275.13	220	600	6-35	10.5/21	12/24	90 seconds	62x123x120	0,8



▲ 14.275.13



▲ 14.275.11



▲ 14.275.12

VICTRON Cyrix-I dual battery charger

By means of a micro-processor, this powerful relay automatically connects the batteries in parallel when one of them has reached the preset voltage and it split them when the voltage drops below the FLOATING level.

Cyrix-I are an excellent option to diode separators since there's no voltage drop. In the traditional installation, the alternator is directly connected to the starting battery. Service battery and bow propeller are combined with the starting battery by means of the Cyrix-I. When the Cyrix-I detects that the starting battery is charged, it will activate thus enabling the other batteries to charge in parallel. Cyrix-I detects the voltage of both batteries therefore it will activate if, for example, the service battery is being charged.



▲ 14.263.01



▲ 14.263.02

Code	Type	Max charge current A	Peak current A	Connection voltage V	Disconnection voltage V	mm
14.263.01	12/24	120	180	13 - 13,8 ; 26 - 27,6	11 - 12,8 ; 22 - 25,7	46x46x80
14.263.02	12/24	230	500	13 - 13,8 ; 26 - 27,6	11 - 12,8 ; 22 - 25,7	100x90x100
14.263.03	12/24	400	2000	13 - 13,8 ; 26 - 27,6	11 - 12,8 ; 22 - 25,7	78x102x110



▲ 14.263.03

VICTRON battery isolators

They automatically connect several batteries by means of a single alternator without connecting the batteries between them and giving priority to the lowest battery.



VICTRON Argodiode battery isolators

Version featuring a low voltage drop thanks to the use of Schottky diodes: at 0.3 V, they have a low current input to supply output B + alternator (in case it should be supplied to start the charge).

Code	Type	Max charge A	Alternator max current A	No. of batteries	Max voltage drop V	mm
14.922.10	80-2 AC	80	80	2	0.3	60x120x90
14.922.11	120-2 AC	120	120	2	0.3	60x120x115
14.922.12	160-2 AC	160	160	2	0.3	60x120x150
14.922.20	100-3 AC	100	100	3	0.3	60x120x115
14.922.21	140-3 AC	140	140	3	0.3	60x120x150
14.922.22	180-3 AC	180	180	3	0.3	60x120x200



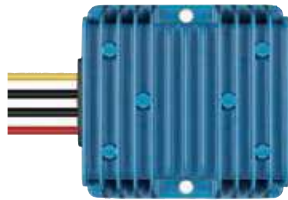
VICTRON Argofet battery isolators

FET isolators allow simultaneous charging of two or more batteries from one alternator (or a single output battery charger), without connecting the batteries together. Discharging the accessory battery for example will not result in also discharging the starter battery.

In contrast with diode battery isolators, FET isolators have virtually no voltage loss. Voltage drop is less than 0,02 Volt at low current and averages 0,1 Volt at higher currents.

Code	Type	Max charge A	Alternator max current A	No. of batteries	Max voltage drop	mm
14.922.30	100-2	100	100	2	0,02	65x120x200
14.922.31	200-2	200	200	2	0,02	65x120x200
14.922.40	100-3	100	100	3	0,02	65x120x200
14.922.41	200-3	200	200	3	0,02	65x120x200

VICTRON DC/DC converters



VICTRON Orion DC-DC non-insulated voltage converter

IP67 100% watertight, fitted with extra-long cords (1.80m).

Code	V		Continuous output A	Efficiency %	mm	kg
	input	output				
14.277.31	15/40	12 +- 3%	10	93	74x74x32	0.3
14.277.32	15/40	12 +- 3%	20	95	74x74x32	0.3
14.277.33	18/35	12 +- 3%	100	95	265x127x63	2.15



VICTRON DC/DC voltage converter and Orion-Tr Smart battery charger with galvanic insulation and Bluetooth connection

Several onboard devices need **stabilized voltage** or **voltage conversion**.

Input and output galvanic insulation prevents supply drop or interruption due to overload.

- Adjustable output voltage, it can be used as battery charger fitted with 3-stage charge algorithm.
- Remote control with low-voltage switch or relay.
- All models can work in parallel to increase output power.
- Remote control and adjustment via Bluetooth.



Code	Modell	V		Adjustable output voltage	A outlet		Efficiency %	mm	kg
		Inlet	Outlet		Continuous	Max			
14.277.01	12/12/18	8-17	12.2	10-15	18	25	87%	130x86x70	1.3
14.277.02	12/24/10	8-17	24.2	20-30	10	15	88%	130x86x70	1.3
14.277.03	24/12/20	16-35	12.2	10-15	20	25	88%	130x86x70	1.3
14.277.04	24/24/12	16-35	24.2	20-30	12	15	89%	130x86x70	1.3
14.277.05	12/12/30	10-17	12.2	10-15	30	40	87%	130x86x80	1.8
14.277.06	12/24/15	10-17	24.2	20-30	15	25	88%	130x86x70	1.6
14.277.07	24/12/30	20-35	12.2	10-15	30	45	88%	130x86x70	1.6
14.277.08	24/24/17	20-35	24.2	20-30	17	25	89%	130x86x70	1.6

VICTRON DC/DC non-insulated high-power voltage converter to be also used as battery charger - Adjustable outlet voltage version

ON-OFF remote connection, Adjustable outlet voltage. Parallel switching possible for more power.

Code	V		Outlet A		Efficiency %	←→ mm
	inlet	outlet	continuous	max		
14.277.39	15 - 40	12	5	5	93	25x43x20
14.277.40	18 - 35	10 - 15	25	35	96	65x88x160
14.277.41*	18 - 35	13,2	40	55	95	65x188x185
14.277.42	18 - 35	10 - 15	70	85	92	65x88x195
14.277.52	9 - 18	20 - 30	10	20	95	45x90x125
14.277.53	9 - 18	20 - 30	20	30	93	65x88x195

* Outlet voltage cannot be adjusted.



VICTRON Buck-Boost high-power voltage converter

DC-DC converter for charging a 12/24V service battery. Ideal for vessels with an intelligent dynamo, used in most recent engines that do not always emit the correct charging current.

Code	V		Max charging current A		←→ mm	kg
	inlet	outlet	12V	24V		
14.277.60	10/30	10/30	25	15	165x120x30	0,6
14.277.61	10/30	10/30	50	25	213x120x30	1,4
14.277.62	10/30	10/30	100	50	288x162x95	4,1



Which inverter to choose?

There are 2 types of inverter:

- A) **Pure sine wave.** In this inverter the current is regulated by a quartz-precision microprocessor. The result is a pure sine wave equal to the domestic net one.
- B) **Modified sine wave.** The voltage generates a square wave, whose frequency and width are stable, but **not compatible** with some appliances such as TVs, audio systems, noen or low-consumption lamps, pad coffee machines, electric toothbrushes, etc.

Our catalogue only proposes pure sine wave inverters. They are more expensive but can be used for all applications.

VICTRON inverters

VICTRON Phoenix inverter, pure sine wave 180/1200W

Designed for professional applications, they use the Sinumax technology ensuring the necessary power but with limited weight and size. Sinumax is also compatible with power peaks during the starting phase required by devices such as refrigerators, electric motors and similar, while traditional 'switching' inverters don't manage these peaks in an optimum way.

Technical characteristics: aluminium frame, forced ventilation with temperature sensor. Protections for short circuit, overload, high or low battery voltage with alarm, high temperature.



Code	V	Type	Outlet socket	V		Hertz	Range W		Efficiency %	←→ mm	kg
				DC inlet V	AC outlet V		Continuous	Peak			
14.270.16	12	12/250 direct	SCHUKO	9,2 - 17,3	230 ±3%	50	250	350	87	86x165x260	2,4
14.270.17	24	24/250 direct	SCHUKO	18,4 - 34	230 ±3%	50	250	350	90	86x165x260	2,4
14.270.20	12	12/375 direct	SCHUKO	9,2 - 17,3	230 ±3%	50	375	700	89	86x165x260	3
14.270.21	24	24/375 direct	SCHUKO	18,4 - 34	230 ±3%	50	375	700	89	86x165x260	3
14.270.18	12	500 direct	SCHUKO	10,5 - 15,5	230 ±3%	50	500	1000	91	86x172x275	3,9
14.270.19	24	500 direct	SCHUKO	21 - 31	230 ±3%	50	500	1000	91	86x172x275	3,9
14.270.22	12	12/800 direct	SCHUKO	9,2 - 17,3	230 ±3%	50	800	1600	90	105x216x305	5,5
14.270.23	24	24/800 direct	SCHUKO	18,4 - 34	230 ±3%	50	800	1600	90	105x216x305	5,5
14.270.07	12	-	SCHUKO	9,2 - 17,3	230 ±3%	50	1200	2400	92	104x194x305	8,5
14.270.48	24	24/1200 direct	SCHUKO	18,4 - 34	230 ±3%	50	1200	2400	94	117x232x327	7,4

VE-Direct version: connection to a computer via interface 14.270.28 as well as Bluetooth connection to smartphones and tablets via 14.270.29.

- 14.270.29 Bluetooth Smart Dongle provides for display of data via Bluetooth Victronconnect App on Apple and Android devices.
- 14.270.28 Victron computer interface for Ve-Direct.





▲ 14.100.06



▲ 14.070.50



▲ 14.270.35



▲ 14.270.41



▲ 14.270.30



▲ 14.270.39



▲ 14.278.60/61



▲ 14.270.47

VICTRON Phoenix/Phoenix Smart inverter, pure sine wave 1600/5000 W

Designed for professional applications, they use the Sinumax technology ensuring the necessary power but with limited weight and size. Sinumax is also compatible with power peaks during the starting phase required by devices such as refrigerators, electric motors, lamps, etc.

Technical characteristics: aluminium frame, forced ventilation with temperature sensor, protections against short circuit, high or low battery voltage alarm, pole inversion, inrush current, etc.

For automatic switch to another AC power supply source, we recommend to buy the Multiplus inverter/battery charger fitted with this function and disconnecting the sole battery charger.

Phoenix

- Connection to a laptop via a VE.Direct-to-USB cable.
- Remote on/off switch.

Phoenix Smart:

- Bluetooth built-in connection to your tablet or smartphone.
- VE.DIRECT communication port allowing wired connection to a laptop via a VE.Direct-to-USB cable.
- ECO mode: When the power being provided by the device falls below a certain value, it will automatically enter standby mode.
- Remote on/off switch.

Code	V	Type	V		Hz	Capacity W		Efficiency %	↔ mm	kg
			DC inlet V	AC outlet V		Continuous	Peak			
14.270.49	12	12/1600 Smart	9,3 - 17	230 ± 2 %	50	1600	3000	94	485x219x125	12
14.270.50	24	24/1600 Smart	18,6 - 34	230 ± 2 %	50	1600	3000	94	485x219x125	12
14.270.51	12	12/2000 Smart	9,3 - 17	230VAC ± 2%	50	2000	4000	94	485x219x125	13
14.270.52	24	24/2000 Smart	18,6 - 34	230 ± 2 %	50	2000	4000	94	485x219x125	13
14.270.53	12	12/3000 Smart	9,3 - 17	230 ± 2 %	50	3000	6000	94	540x276x152	18
14.270.54	24	24/3000 Smart	18,6 - 34	230 ± 2 %	50	3000	6000	94	487x286x152	18
14.270.15	24	24/5000 Smart	19 - 33	230 ± 3%	50	5000	10000	94	444x328x240	30
14.270.55	24	24/5000 Smart	18,6 - 34	230 ± 2 %	50	5000	10000	94	595x295x160	29



14.070.50 Colour GX control

14.270.35 Remote ON/OFF switch for Phoenix (RJ45 cord required)

14.270.41 Remote ON/OFF switch for Phoenix Smart

14.270.30 Battery alarm panel: high or low voltage is signalled with an audible and visual alarm

14.270.39 Victron-to-USB port connection kit for Phoenix

14.278.60 VE.Direct 3-m cable for Phoenix Smart

14.278.61 VE.Direct 5-m cable for Phoenix Smart

14.270.47 RJ45 7-m cord.

14.100.06 Battery monitor

Voltage converters and battery isolators



▲ 14.922.50



▲ 14.922.51/52

Very low voltage drop battery combiners (diodes) and automatic battery isolators

MENO DI 0,25 V / UNDER 0,25 V

They can charge more than one battery simultaneously, giving preference to the battery with the lowest charging level. **Electrical separation of each battery to avoid the one with highest charge level to flow into the one with lowest charge level.** Aluminium body, wide finning suitable for dispersing heat efficiently.

Code	Batteries	Max power delivered by each battery	Alternators	Max voltage	↔ mm
14.922.50	2	70 A	1	100 V	65x127x136
14.922.51	3	140 A	2	100 V	65x127x236
14.922.52	4	70 A	2	100 V	65x127x236
14.922.53	3	70 A	1	100 V	65x127x136
14.922.54	2	140 A	2	100 V	65x127x236
14.922.55	2	210 A	2	100 V	65x127x236

Clamps, cables and battery terminals

BIG battery terminals for high amperage

OSCOLATI



14.385.99 Made of nickel-plated brass with stainless steel nuts and bolts. + and - fastening bolts to avoid confusing the cables.

Pair of bronze clips for batteries

OSCOLATI



14.386.00 Packed in pairs, universal model; selected pins sizes 8 and 10 mm used to avoid inverting battery cables; version fitted with **stainless steel** pins and screw nuts.

Cap pair



Made of **black and red PVC**, designed to cover and isolate battery clamps; universal model.

Code	ORDER BY BOX
14.990.78	1

Kit including a pair of clips and a pair of caps

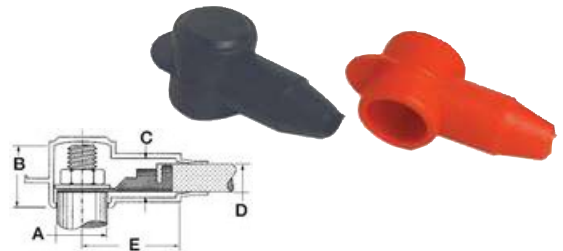


Code	Composed	
	Clamps (couple)	Cover (couple)
14.286.00	14.386.00	14.990.78

Insulating caps

Made of **soft PVC**, designed for battery cables and electrical connections with general power.

Black	Red	For cables up to mm (external)	A mm	B mm	C mm	D mm	E mm
14.987.01	14.988.01	12	18	20	13	9/12	27
14.987.02	14.988.02	16	20	24	18	9/16	35



Universal snap mounting battery terminals

Made of **polypropylene, chromed brass and AISI316 stainless steel**. Universal for all batteries, suitable for cables up to 40 mm², max 800 amp.

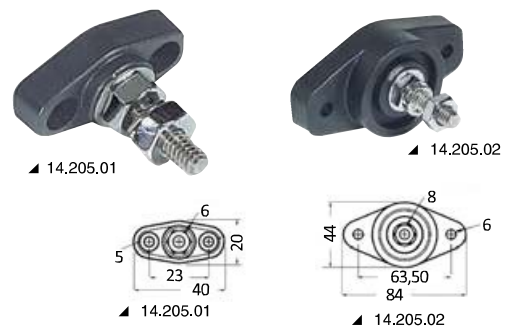
Code	Sold
14.388.00	in pair, blue + red



Power Post junctions for electrical cables

Suitable for high amperage, determined by the electrical cable gauge and not by the knot. Nylon/ fiberglass base. Stainless steel pin. Chromed brass nuts

Code	Version	Base mm	Pin mm	Protection caps recommended in soft PVC	Protection in hard polycarbonate
14.205.01	Mini	40x20	6	14.987.01; 14.988.01	-
14.205.02	Maxi	83x44	8	14.987.02; 14.988.02	-
14.205.00	Big	82x43	10	14.987.02; 14.988.02	-
14.205.03	Mini	35x42	6 (2)	14.987.01; 14.988.01	14.205.13
14.205.04	Midi	50x41	8 (2)	14.987.01; 14.988.01	14.205.14
14.205.05	Midi - B	50x41	8+10 (1+1)	14.987.01; 14.988.01	14.205.14
14.205.06	Big	50x41	10 (2)	14.987.02; 14.988.02	14.205.14



▲ 14.205.04

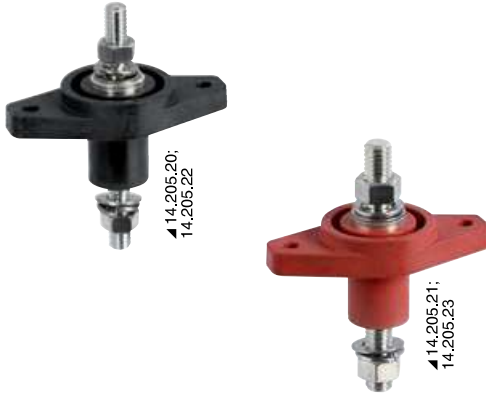
▲ 14.205.05

▲ 14.205.06

▲ 14.205.13/14

▲ 14.205.03

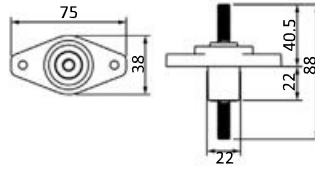
▲ 14.205.00



Power Post junction box for electrical cables

Suitable for high amperage. Nylon/fiberglass base, stainless steel pin and nuts.

Black	Red	Version	Base plate mm	Pin mm	A	Recommended soft PVC protection caps
14.205.20	14.205.21	Maxi	75x35	8	250	14.987.02; 14.988.02
14.205.22	14.205.23	Big	75x35	10	300	14.987.02; 14.988.02



Battery cables, made of copper and coated with synthetic resin insulating covering



Made in accordance with EC standards for use in bilges.

black	red	Section mm	Max continuous current A	Ø outer mm	Roll m
14.381.25	14.382.25	25	100	9,5	24
14.381.35	14.382.35	35	125	12	24
14.381.50	14.382.50	50	160	14	24
14.381.70	14.382.70	70	250	16	24
14.381.90	14.382.90	95	300	21	24

Marine electric cable made of copper and coated with extra-insulating PVC

Made in compliance with the CEI 20-22 20-22II and CEI 20-371 standards and with the EU DIRECTIVE 2011/95/CE. **Flame retardant and oil resistant (please note that the cable in the engine room must compulsorily be oil-resistant).**



▲ 14.150.xx



▲ 14.148.xx



▲ 14.147.xx;
14.149.xx;
14.146.xx


Code	Version	Wire color	Sheath	Roll m	Sez, mm ²	Ø outer mm
14.150.15BI	unipolar	white	-	100	1,5	-
14.150.15BL	unipolar	blue	-	100	1,5	-
14.150.15GR	unipolar	grey	-	100	1,5	-
14.150.15GV	unipolar	yellow/green	-	100	1,5	-
14.150.15MA	unipolar	brown	-	100	1,5	-
14.150.15NE	unipolar	black	-	100	1,5	-
14.150.15RO	unipolar	red	-	100	1,5	-
14.150.25BI	unipolar	white	-	100	2,5	-
14.150.25BL	unipolar	blue	-	100	2,5	-
14.150.25GV	unipolar	yellow/green	-	100	2,5	-
14.150.25NE	unipolar	black	-	100	2,5	-
14.150.25RO	unipolar	red	-	100	2,5	-
14.150.40BL	unipolar	blue	-	100	4	-
14.150.40GV	unipolar	yellow/green	-	100	4	-
14.150.40NE	unipolar	black	-	100	4	-
14.150.40RO	unipolar	red	-	100	4	-
14.150.60BL	unipolar	blue	-	100	6	-
14.150.60GV	unipolar	yellow/green	-	100	6	-
14.150.60NE	unipolar	black	-	100	6	-
14.150.60RO	unipolar	red	-	100	6	-
14.148.10	bipolar	black and red	medium gray	50	1	7
14.148.15	bipolar	black and red	medium gray	50	1,5	8
14.148.25	bipolar	black and red	medium gray	50	2,5	10,1
14.148.40	bipolar	black and red	medium gray	50	4	11
14.147.15	tripolar	black, white, blue	medium gray	50	1,5	8,5
14.147.25	tripolar	black, white, blue	medium gray	50	2,5	10,9
14.149.10	tripolar (for bilge pumps)	black, brown and red	medium gray	50	1,5	8,20
14.149.20	tripolar (for bilge pumps)	black, brown and red	medium gray	50	2,5	9,20
14.146.15	tripolar	blue, yellow/green and black*	medium gray	50	1,5	8,5
14.146.25	tripolar	blue, yellow/green and black*	medium gray	50	2,5	10
14.146.40	tripolar	blue, yellow/green and black*	medium gray	50	4	12,7

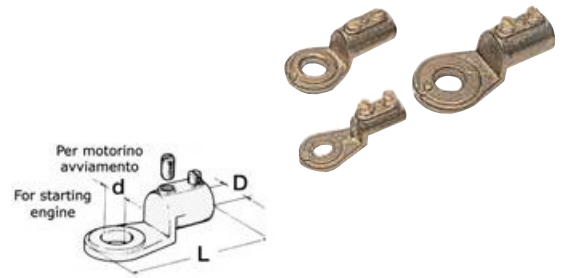
* Designed for connections to 110/220 volt

N.B.: Suitable for conductor sizes 6 and 10 mm², see product numbers 14.593.00/01 and 14.595.00


Blown-out eye terminal

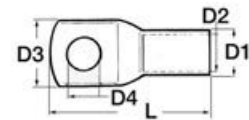
Mounting using a battery cable hex key.

Code	d mm	D mm	L mm	Cable section mm ²	
14.034.00	8	7	47	25	6
14.034.10	10	9,2	49	35	6
14.034.20	10	12	60	50	6
14.034.30	12	13	60	70	6

**Power lugs**

Made of made of high conductivity tin-plated copper.

Code	Cable section mm ²	D3 mm	L mm	D4 mm	D2 mm	D1 mm		Tools to fix thread on electric cables
14.035.10	10	13,5	31	6,4	4,7	6,5	100	14.035.30
14.035.16	16	14	35	6,4	5,6	7,5	100	14.035.30
14.035.25	25	16	40	8,3	7,1	9,5	50	14.035.30
14.035.26	25	16	40	10,3	7,1	9,5	50	14.035.30
14.035.35	35	19	44	8,3	8,2	11	50	14.035.30
14.035.36	35	19	44	10,3	8,2	11	50	14.035.30
14.035.50	50	20	53	8,3	9,5	13	20	14.035.30
14.035.51	50	20	53	10,3	9,5	13	20	14.035.30
14.035.70	70	22	57	10,5	11,2	14,2	20	14.035.30
14.035.71	70	22	57	13,2	11,2	14,2	20	14.035.30
14.035.90	95	26	57	13,4	13,4	16,4	20	14.035.30
14.035.91	95	26	58	15	13,4	16,4	20	14.035.30

**Crimping tool**

To press power lugs onto electrical cables

Code	Model	For pressing lugs mm
14.035.30	professional	10/120

**Professional crimping tool + cable stripper**

For any type of insulated or non insulated terminal and any PVC-, rubber- or silicon-coated cable.

Code	For cables mm ²	Pliers length mm
14.184.40	0,2 - 6	205

**Professional crimping tool**

Crimping tool with interchangeable dies. Ergonomic antislip handle.

Code	Description
14.184.01	Tool only for 0,5- to 6- mm ² lugs
14.184.02	Die kit for 0,5- to 6- mm ² insulated lugs
14.184.03	Die kit for 0,5- to 6- mm ² heat-shrinking connectors

**Head-head power joint**

Made of high conductivity tin-plated copper

Code	Cable section mm ²	Joint Length mm	Code	Cable section mm ²	Joint Length mm
14.036.06	4/6	25,5	14.036.35	35	40,5
14.036.10	10	30	14.036.50	50	40,5
14.036.16	16	32,5	14.036.70	70	45,5
14.036.25	25	35,5	14.036.95	95	50,5



Groundplates and accessories



Groundplate mass plate equipped with nuts and bolts

Made of **porous bronze**, essential to acquire an appropriate mass to install Loran, GPS, Navigators, radio-telephones SSB and to cut down radio interferences.

Code	Type	Equal to copper mass m ²	←→ mm
29.630.01	Standard	1,5	155x51x13
29.630.02	Giant	3,45	300x80x13
29.630.00	Medium	2	205x64x13



Plate made of galvanized copper

Type-approved size by **RINA** standards, size 2x20 mm, suitable for connections among them and to various **ground cables**.

Code	Bar size m
14.392.00	2,10



Tin-plated copper plait

Flexible plait for ground cables.

Code	Section mm ²	Roll m
14.393.00	10	25

Terminal boards and shunts



Watertight electrical shunt box

Made of bakelite. Easily removable cover for inspection. Fitted with terminal board.

Code	Material	Input	Clamps	←→ mm
14.240.01	black plastic	3 (2 medium, 1 small)	8 (4+4)	76x127x45



8 pole terminal board, 14A, 100% watertight

Clear polycarbonate cover, salt water-resistant rubber body; ideal for bilge connections or for use in engine rooms.

Code	Poles	Max A	←→ mm
14.241.10	8	14	108x92x41



Terminal board made of Bakelite, high-insulated model

Fitted with **nickel plated brass** terminal clamps. Separators to avoid accidental contacts.

Code	N. of terminals	A	←→ mm
14.206.21	10	20	130x30x15
14.206.25	4	20	65x30x15
14.206.27	6	20	85x30x15



Electrical cables terminals

Made of **black plastic**, fitted with clear protection cover. Separators for unwanted contacts, **nickel-plated brass** screws and terminals.

Code	N. of terminals	A	←→ mm
14.206.35	4	20	50x23
14.206.37	6	20	70x23
14.206.41	10	20	137x32
14.206.47	6	30	90x30
14.206.51	10	30	138x30



New WAGO® series 221 splicing connectors with snap opening/closing

NO TOOL

Ideal easily, quickly and safely connect solid, stranded and fine-stranded conductors. Pull the lever up, insert a conductor and push the lever back down.

For a faster and safer electrical system.

Mounting carriers are available for every 221 Series Splicing Connector – whether it's the 2-, 3- or 5-wire model. They can be mounted vertically or horizontally. Secure the carrier by snapping it onto the DIN-rail, or with screws on smooth surfaces.

Conductors can be conveniently connected and removed before or after inserting a connector into the carrier. Max ambient temperature: 85°C.

Osculati code	WAGO code	Description	No of conductors	Conductor section mm ²
14.286.24	221-412	COMPACT 4 mm ²	2	0,14 - 4
14.286.34	221-413	COMPACT 4 mm ²	3	0,14 - 4
14.286.54	221-415	COMPACT 4 mm ²	5	0,14 - 4
14.286.50	221-500	Fixing support for 4 mm ²	-	-
14.286.26	221-612	COMPACT 6 mm ²	2	0,5 - 6
14.286.36	221-613	COMPACT 6 mm ²	3	0,5 - 6
14.286.56	221-615	COMPACT 6 mm ²	5	0,5 - 6
14.286.51	221-510	Fixing support for 6 mm ²	-	-
14.286.42	221-2411	4-mm ² in-line joining connector	2	0,2 - 4

Bus-Bar electric terminal board

High insulating capacity **plastic** base; **nickel-plated cooper** support bar, **stainless steel** screws and nuts. Volt 12/48.

Code	Shunt terminals mm	Power terminals mm	Base mm	A continuous capacity	Cover
14.207.04	-	4x5	107x22	100	14.208.04
14.207.05	5x4	2x5	107x22	100	14.208.04
14.207.10	10x4	2x6	145x31	150	14.208.10
14.207.12	20x4	2x6	225x31	150	14.208.20
14.207.14	-	4x6	152x32	150	14.208.24
14.207.16	-	6x6	230x32	150	14.208.26
14.207.18	6x5	2x8	153x38	250	14.208.10
14.209.10	12x5	2x8	201x38	250	14.208.30
14.209.19	-	4x8	153x38	250	14.208.25
14.209.20	-	4x8	201x38	250	14.208.30
14.209.21	-	4x10	178x51	600	14.208.31
14.209.22	-	8x10	289x51	600	14.208.32



▲ 14.207.04

▲ 14.207.05



▲ 14.207.10



▲ 14.207.12



▲ 14.207.14



▲ 14.207.16



▲ 14.207.18



▲ 14.209.10



▲ 14.209.19/20



▲ 14.209.21



▲ 14.208.10/20/30



▲ 14.209.22



▲ 14.208.26



▲ 14.208.04



▲ 14.208.31/32



▲ 14.208.24

New

Techno Bus Bar Heavy Duty electric terminals

With clear lid. Technopolymer basis and tin-plated copper bars. Stainless steel screws. The cables are fixed on the bar without using nuts in between. Rotation of the power cables in any direction. Voltage up to 48V.

Code	Version	Junction terminals NO x mm	Power terminals No x mm	Base mm	Capacity A continuous
14.307.04	Mini Bus Bar	-	4x5	107x23	100
14.307.05	Mini Bus Bar	5x4	2x5	107x23	100
14.307.10	Shared Bus Bar	10x4	2x6	149x32	150
14.307.11	Shared Bus Bar	12x4	2x6	149x32	150
14.307.12	Shared Bus Bar	20x4	2x6	149x32	150
14.307.14	Shared Bus Bar	-	4x6	149x32	150
14.307.16	Shared Bus Bar	-	6x6	149x32	150
14.309.10	Maxi Bus Bar	12x5	2x8	197x38	250
14.309.19	Maxi Bus Bar	-	4x8	197x38	250
14.309.29	Maxi Bus Bar	-	6x8	197x38	250
14.309.21	Ultra Bus Bar	-	4x10	289x51	600



▲ 14.307.04



▲ 14.307.05



▲ 14.307.10



▲ 14.307.14



▲ 14.307.12



▲ 14.307.11



▲ 14.307.16



▲ 14.309.10



▲ 14.309.29



▲ 14.309.19



▲ 14.309.21

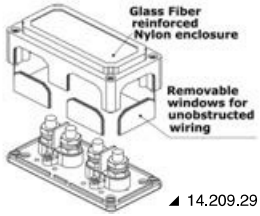


▲ 14.209.30

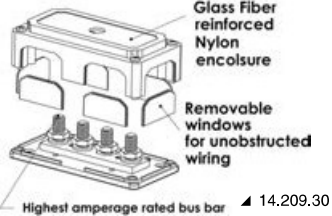
Heavy Duty Bus-Bar Terminals

Made of nylon/fibreglass. The cables can feed through all four sides.

Code	volt	Shunt terminal mm	Power terminal mm	Base mm	Range A
14.209.29	12/24	-	4x10 separate	138x69	200
14.209.30	12/24	-	4x10	138x69	300
14.209.31	12/24	6x5	2x10	138x69	300
14.209.32	12/24	12x4	4x6	138x69	100



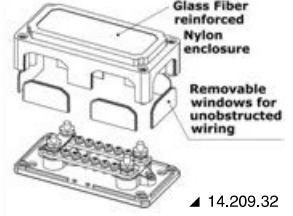
▲ 14.209.29



▲ 14.209.30



▲ 14.209.31



▲ 14.209.32



▲ 14.100.40

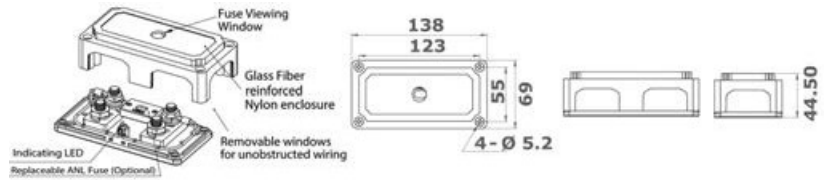
▲ 14.100.39

ANL fuse holder, high performance

Made of nylon/fibreglass. Fitted with LED indicator for fuse state (it lights up when the fuse burns out) and upper slot for visual check. Matching fuses 14.100.xx.

Code	Description	A max	Contact Ø mm	mm
14.100.40	Single ANL fuse holder	300	10	138x69x44.5 single
14.100.39*	Double ANL fuse holder	750	10	138x69x44.5 single

* with dual terminal board



Fuses and fuse holders



36 assorted blade fuses

5 A to 30 A.

Code	ORDER BY BOX
14.004.00	6 x 5 A blade fuses; 9 x 10 A blade fuses; 9 x 15 A blade fuses; 6 x 20 A blade fuses; 6 x 30 A blade fuses.



Assorted glass fuses

From 1A to 20A.

Code	ORDER BY BOX
14.153.00	24 fuses 5x20 mm (6 x 1A; 6 x 2A; 6 x 5A; 6 x 10A), 24 fuses 6,3x32 mm (6 x 5A; 6 x 10A; 6 x 15A; 6 x 20A).

Glass fuses for instruments

Rapid-action glass body. Silver-plated copper contacts. Rated voltage: up to max 250V.



Code	mm	A	ORDER BY BOX	Code	mm	A	ORDER BY BOX
14.152.05	6,3x32	5	100	14.151.01	5x20	1	50
14.152.10	6,3x32	10	100	14.151.02	5x20	2	50
14.152.16	6,3x32	15	100	14.151.05	5x20	5	50
14.152.20	6,3x32	20	100	14.151.10	5x20	10	50

Standard blade fuses

Assorted colours depending on their amperage. Rated voltage: max 32V.



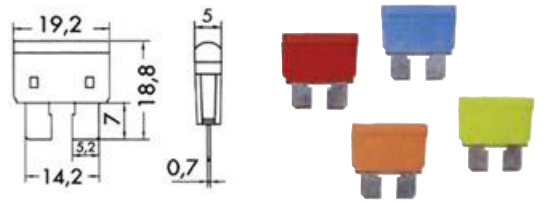
Code	A	ORDER BY BOX	Code	A	ORDER BY BOX
14.004.10	5	100	14.004.50	20	100
14.004.30	10	100	14.004.70	30	100
14.004.40	15	100			

Standard blade fuses with warning LED light

The LED lights up when the fuse burns out.



Code	A	ORDER BY BOX
14.003.05	5	50
14.003.10	10	50
14.003.15	15	50
14.003.20	20	50
14.003.30	30	50

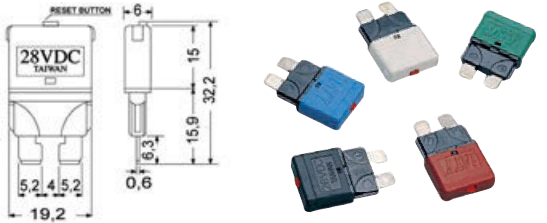


Resettable blade fuses, 12/24 V

Standard resetting by pushing the manual head button.



Code	A	ORDER BY BOX
14.005.01	5	5
14.005.03	10	5
14.005.04	15	5
14.005.05	20	5
14.005.06	30	5

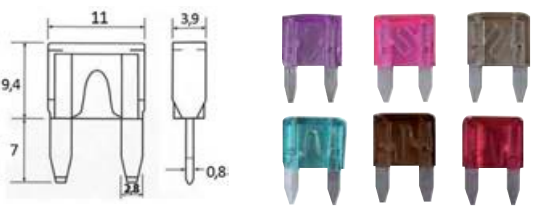


Small blade fuses

Recommended to optimize spaces.



Code	A	ORDER BY BOX
14.006.05	5	100
14.006.10	10	100
14.006.15	15	100
14.006.20	20	100
14.006.30	30	100



ANL Gold Plated fuses

High capacity. For installation on control propellers and windlasses.



Code	A	PACKAGE	Code	A	PACKAGE
14.100.42	50	10	14.100.48	250	10
14.100.44	100	10	14.100.49	300	5
14.100.52	130	5	14.100.53	325	5
14.100.46	150	10	14.100.50	400	5
14.100.47	200	10	14.100.51	500	5



MEGA high-capacity standardized fuses

For voltage up to 32V DC. Maxi fuse for high-capacity electric appliances. It protects the circuit safety.

Code	A	Code	A
14.099.44	100	14.099.47	200
14.099.45	125	14.099.48	250
14.099.46	150	14.099.51	500



Flying fuse holder

For 6.3x32-mm glass fuses.

Code	Description
14.115.15	Watertight fuse holder designed for glass fuses size 6x32 mm
14.182.00	'In-line' flying fuse box for glass fuses size 6x32 mm



Fuse holder, built-in model

Code	For glass fuses size mm
14.145.00	6.3x32



PVC fuse holder, watertight model



For standard blade fuses.

Code	Max capacity A
14.115.17	30

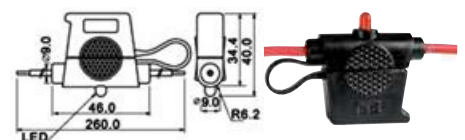
Fuse holder, watertight model



High quality thermal-rubber, for standard blade fuses. Fitted with 2 x 130-mm cables, section 4-mm² section, 20-Amp max capacity.

Code	Max capacity A	ORDER BY BOX
14.115.19	35	10

Fuse holder with warning LED, watertight model



High quality, for standard lamellar fuses. 2 x 110-mm cable capacity, 3-mm² section.

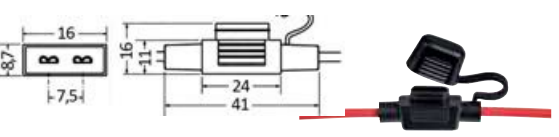
Code	LED	Max capacity A	ORDER BY BOX
14.115.20	1	30	10

Watertight fuse holder for small fuses

High quality fuse holder for small blade fuses. Fitted with two cables (150 mm each, 3,3 mm² section).



Code	Capacity A	ORDER BY BOX
14.115.21	30	10

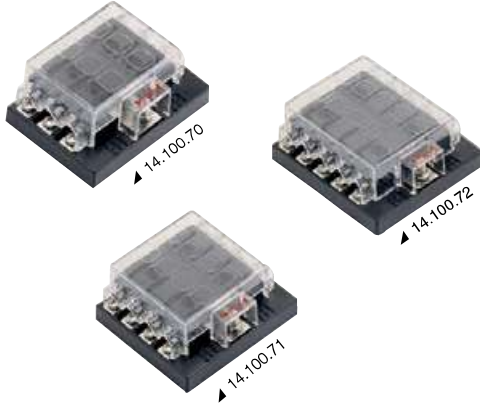




Glass fuse holder box

For standard 6,3x32-mm fuses. Fitted with blown fuse LED light, Snap cover and table with self-adhesive symbol stickers.

Code	Fuse housings	mm
14.181.07	6	130x90x36



Standard blade fuse holder box with common positive

Made of polycarbonate with tinplated copper contacts. Transparent cover with labels for single uses. 150A max load for each block, Screw terminals.

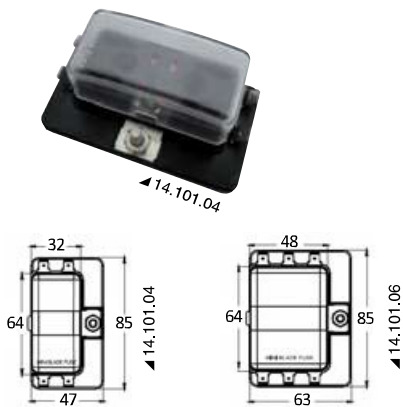
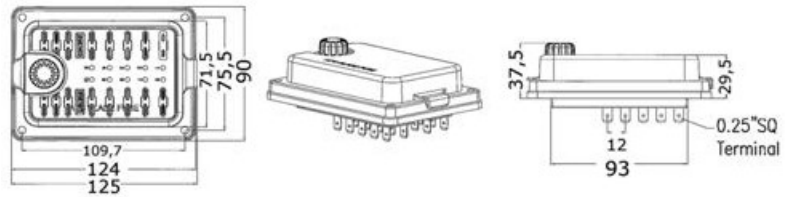
Code	Fuse housings and contacts	mm
14.100.70	6	92x66
14.100.71	8	92x83
14.100.72	10	92x99
14.100.73	12	92x116



Blade fuse holder, waterproof

Semi built-in box with rubber seal, housings for 10 blade fuses, rear outlet, 6 spare fuses, LED light for burnt out fuses.

Code	Volt	No of outlets	Max A for each outlet	mm
14.100.65	12/24	10	25	125x90

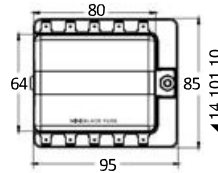


Fuse holder box for small fuses

Flame-retardant black PBT case and clear polycarbonate cover. Tin-plated copper blade contacts, 6,3-mm standard size.

Warning LED light in case of interrupted fuse.

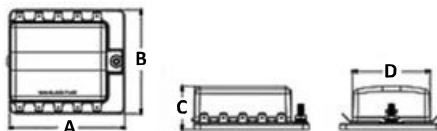
Code	V	No. of outputs	Max capacity A per single fuse	Max capacity A	mm
14.101.04	12/24	4	25	100	85x47x35 H
14.101.06	12/24	6	25	100	85x63x35 H
14.101.10	12/24	10	25	100	85x95x35 H



Fuse holder box with warning lights

For standard lamellar fuses. Equipped with LED warning light for cut off fuse.

Code	Fuse housing	Warning LED	Max total capacity A	Max capacity for single fuse	mm			
					A	B	C	D
14.102.70	4	4	100	30	47	85	36	63
14.102.71	6	6	100	30	63	85	36	63
14.102.72	10	10	100	30	95	85	36	63



Fuse holder box with transparent snap cover, made of polycarbonate

Silver-plated phosphor bronze connections. It fit regular lamellar fuses.
 Admissible voltage: 12/24 volt.
 Total max amperage of the box: 100 Amps.
 Max amperage for each fuse: 20 Amps.
 2 spare fuse holders on the cover.

Version for standard fuses	Version for resettable fuses 14.005.xx or similar (ETA, COOPER, etc.)	Fuse housing	Contacts (-)	(-) Common	(+) Common	mm
14.183.06	14.183.26	6	6	1	1	125x85
14.183.12	14.183.32	12	12	1	1	165x85

Complete with 6/12 writable stickers to mark the single uses



OSCULATI



New Compact fuse holder box

Terminals for independent supply. It can be used with any standard fuse (14.004.xx/14.003.xx) or resettable fuse (14.005.xx).
 By rotating the cover at 180°, you will get a low profile (in standard fuses) or a high profile (in resettable fuses).
 In the same box you can configure both permanent (alarms, automatic bilge pumps, etc.) and ON-OFF circuits (lights, GPS, stereo systems, refrigerator, etc.)
 Fitted with blown fuse LED indicator and 60 stickers to name the circuits. Screw terminal.

Code	V	A		mm
		max per circuit	max cumulative	
14.182.05	max 32	30	40 per group of circuits with bridge (Jumoer)	116x50x45/50



High-capacity fuse holder

Made of thermoplastic with removable clear cover.

Code	Base mm	For fuses
14.100.41	95x42	ANL 14.100.xx
14.099.41	95x42	MEGA 14.099.xx



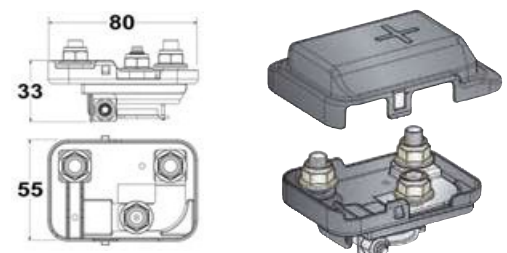
OSCULATI



Power distribution fuse box for MEGA fuse

Thermoplastic box with lid to be used on the positive pole of the battery
 To be matched with a MEGA fuse. 200A max capacity.

Code	mm	Fuses to be used
14.100.38	80x55x33(H)	14.099,44/45/46/47



OSCULATI



▲ 14.182.01+14.182.02

Fuse holder boxes

Fit for regular blade fuses (ATP - ATO - ATC).
Equipped with control LED on each fuse.
12/24V voltage.
100A max total load, 20A max load for each fuse. Stickers with several signs included in the package.
Use the basic modules 1 and 2 to arrange the combinations shown and many others. The 100A max total load is the sole limit.

Code	Type	Fuse housing	Contacts	mm
14.182.01	basic module	6-unit fuse holder	faston	86x78x41
14.182.02	basic module	12-unit negative bus bar	faston	86x57x41



▲ 14.182.01 (1)



▲ 14.182.02 (2)



▲ 14.182.01+14.182.02



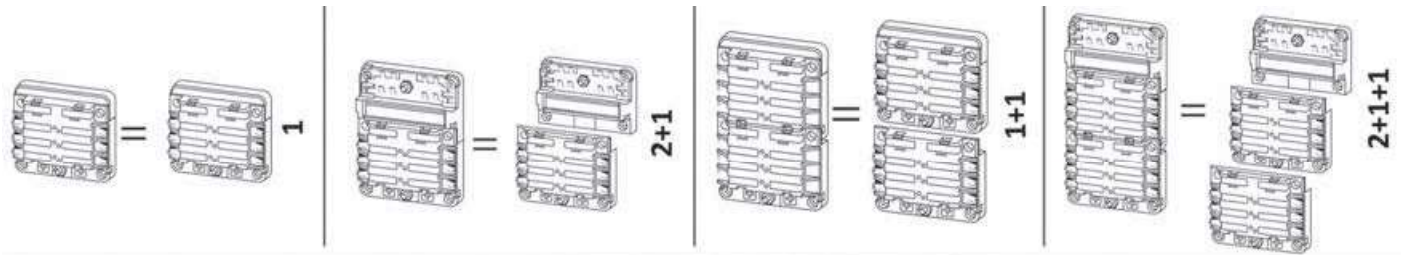
▲ 14.182.01+14.182.02



▲ 14.182.01



▲ 14.182.02



composition examples / esempi di composizione

New

Circuit breaker holder box

It is compatible with standard circuit breakers (ex. 14.733.xx) that are easier to install than blade fuses. With clear lid with a space for function labels (60 x labels standard supply). The watertight circuit cap allows to reset the circuits without removing the lid. Screw terminals.



Code	V	Supply	A		mm
			max per circuit	max cumulative	
14.182.06*	Max 32	Independent	30	100	40
14.182.07*	Max 32	Shared	30	100	40

Independent supply version: the user can configure at the same time permanent circuits (automatic bilge pumps, alarms, etc.) or ON-OFF circuits (lights, stereo, refrigerator, etc.)

Watertight blade fuse holder box

It can be used with standard, mini and micro fuses. Clear lid and watertight seal. Bayonet terminals.



▲ 14.100.31



▲ 14.100.31

Code	Fuse housings	Base mm	Max load A	Max load for single fuse
14.100.31	4	85x31	30	15
14.100.32	6	100x31	45	15
14.100.33	8	120x31	60	15
14.100.34	10	140x31	90	15

Watertight blade fuse holder with deep lid

It can be used with the following fuses: **standard, mini, micro, standard resettable, mini resettable et micro resettable.**



▲ 14.100.81



▲ 14.100.81

Code	Fuse housings	Base mm	Max load A	Max load for single fuse
14.100.81	4	85x31	30	15
14.100.82	6	100x31	45	15
14.100.83	8	120x31	60	15
14.100.84	10	140x31	90	15

“Splash-Proof” modular fuse holder.

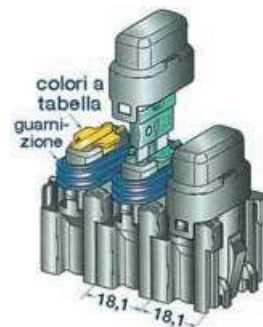
Fits blade fuses models 14.004.10/30/40/50/70. A fuse holder is composed by 1*14.117.XX + 2*14.118.XX + 1*14.116.01

Fuse holder with cover, modular model

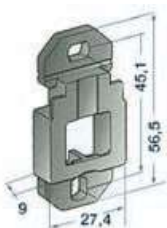
Built-in mounting. Silicone seal and colored secondary-Lock for amperage identification, standard blade fuses.

For use with blade fuse 14.004.10/30/40/50/70. A complete fuse holder consists of: 1*14.117.XX + 2*14.118.XX + 1*14.116.01.

Code	Fuse box A
14.117.01	5
14.117.02	10
14.117.03	15
14.117.04	20
14.117.05	30



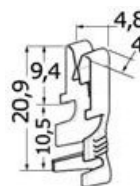
Support base, bulkhead-mounting model



For fixing modular fuse holders. Splashproof.

Code	For mountin with	ORDER BY BOX
14.116.01	2 screws	10

Contacts made of tin-plated brass



To seam on cables and to connect to the fuse holder (2 per each fuse).

Code	Contacts for cables mm	ORDER BY BOX
14.118.01	1/2,5	100
14.118.02	2,5/6	100

Connectors and "Faston"

Faston and lug kit

It comes in a box with dividers.

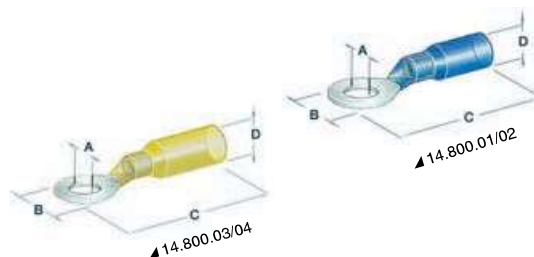
Code	Pcs.	Package
14.303.18	175	dividing box



Eyelets pre-insulated with heat-shrinkable sheath

Watertight.

Code	A mm	B mm	C mm	D mm	Bore mm	Cable mm ²	ORDER BY BOX
14.800.01	4,3	8,5	28	4,9	4,3	1,2/2,5	100
14.800.02	5,3	9,5	29	4,9	5,3	1,2/2,5	100
14.800.03	5,3	9,5	34	6,4	5,3	2,5/6	50
14.800.04	6,4	12	37	6,4	6,4	2,5/6	50



Pre-insulated eyes

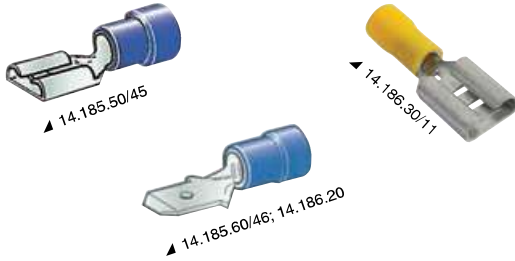
Code	Hole mm	Cable mm ²	ORDER BY BOX
14.185.70	3,2	1/2,5	100
14.185.71	4,3	1/2,5	100
14.185.72	5,3	1/2,5	100
14.186.31	5,3	2,5/6	100
14.186.32	6,3	2,5/6	100





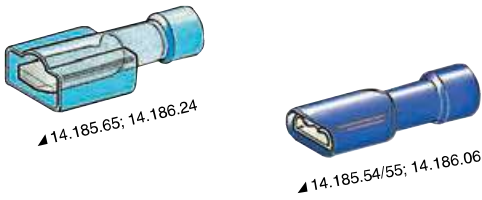
Pre-insulated eyes

Code	Opening mm	Cable mm ²	ORDER BY BOX
14.186.61	4.3	1/2,5	100
14.186.62	5.3	1/2,5	100
14.186.71	5.3	2,5/6	100
14.186.72	6.4	2,5/6	100



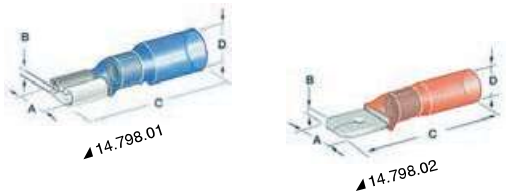
Faston pre-insulated blade connectors (4.7 mm, 6.3 mm, 9.5 mm)

Code	Type	Cable mm ²	Opening mm	ORDER BY BOX
14.185.45	Female	1/2,5	4,7	100
14.185.46	Male	1/2,5	4,7	100
14.185.50	Female	1/2,5	6,3	100
14.185.60	Male	1/2,5	6,3	100
14.186.11	Female	2,5/6	6,3	100
14.186.20	Male	2,5/6	6,3	100
14.186.30	Female	2,5/6	9,5	50



Fully pre-insulated 4.7- and 6.3-mm Faston terminal

Code	Type	Cable mm ²	Opening mm	ORDER BY BOX
14.185.54	Female	1/2,5	4,7	100
14.185.55	Female	1/2,5	6,3	100
14.186.06	Female	2,5/6	6,3	100
14.185.65	Male	1/2,5	6,3	100
14.186.24	Male	2,5/6	6,3	100



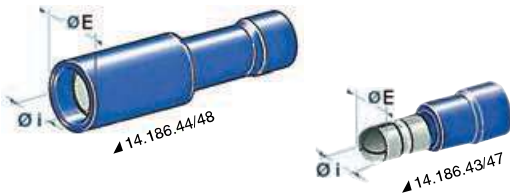
Faston terminals, pre-insulated watertight heat-shrinkable 6.3-mm size

Code	A mm	B mm	C mm	D mm	Type	Cable mm ²	ORDER BY BOX
14.798.01	6,35	0,8	28	4,9	Female	1,2/2,5	100
14.798.02	6,35	0,8	28	4,9	Male	1,2/2,5	100



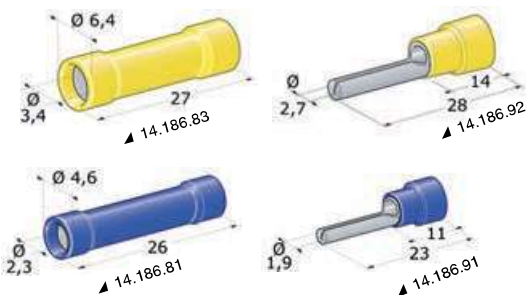
Piggy Back female faston, pre-insulated 6.3-mm size

Code	Cable mm ²	Can be used with Faston products	ORDER BY BOX
14.186.26	1/2,5	14.185.50; 14.185.60; 14.185.55	50



Cylindrical terminals, pre-insulated

Code	Type	Cable mm ²	Ø mm E	Ø mm i	ORDER BY BOX
14.186.43	Male	1/2,5	4	-	100
14.186.44	Female	1/2,5	4	-	100
14.186.47	Male	2,5/6	5	3,86	100
14.186.48	Female	2,5/6	5	4,85	50



Male plugs + female connections, pre-insulated

Code	Type	Cable mm ²	ORDER BY BOX
14.186.81	Female	1/2,5	100
14.186.83	Female	2,5/6	50
14.186.91	Male	1/2,5	100
14.186.92	Male	2,5/6	100

Pre-insulated heat-shrinkable tube for sealing joints, 2 cables

Code	Cable mm ²	ORDER BY BOX
14.186.50	1/2,5	100
14.186.51	2,5/6	50



Quick splice terminals for switches, joints and terminations

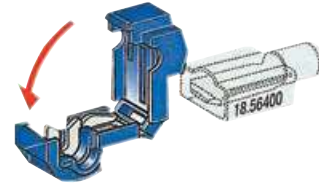
Nylon body, tin-plated brass perforating contact. Suitable for flexible and rigid conductors.

Code	For cable size mm ²	ORDER BY BOX
14.100.91	1/2,6	100
14.100.92	2,6/6,6	50



T quick splice terminals

Code	Cable size mm ²	ORDER BY BOX
14.100.97	1/2,5	100



Crimping joints, watertight

Includes a crimping cylinder covered with a heat-shrinking sheath and an internal adhesive. Thanks to the adhesive, once it's heat shrunk it gives a resistant fully watertight junction.

Code	Cable size mm ²		Color	ORDER BY BOX
	min	max		
14.128.01	0,5	1	red	100
14.128.02	1,5	2,5	blue	100
14.128.06	3	6	yellow	100



Soldering joints, watertight

Composed of a heat-shrinking sheath with an inner tin ring and two adhesive rings. Once is heat shrunk it provides: an electric connection, sealing of the two cables and provides a fully watertight welded joint; very easy to fit with the professional heater model 14.122.12 or with a normal lighter.

Code	Total mm ²		Color	ORDER BY BOX
	min	max		
14.124.02	0,8	2	red	100
14.124.04	2	4	blue	100
14.124.06	4	6	yellow	100



Terminal caps for multiple joints, watertight

Electrical joints with insulated heads and watertight sealings can be easy done with just one operation (using the industrial heater model 14.122.12 or with a normal lighter); the connection is made through soldering, giving a reliable electrical connection, even for numerous small cables.

Code	Total mm ²		Color	ORDER BY BOX
	min	max		
14.126.04	2	4	Red	100
14.126.08	3,5	8	Blue	100
14.126.12	7,5	12	Yellow	100



Joints for electric cables, made of plastic

Code	A mm	B mm	C mm	ORDER BY BOX
14.155.01	14,5	8,6	6,5	100
14.155.02	17,2	10	7,9	100
14.155.03	22,2	11,1	9,1	100



▲ 14.155.01 ▲ 14.155.02 ▲ 14.155.03

Cable sheaths, cable trays and accessories for cable marking



Cabling coil made of white polyethylene

Electric cable protective belts, entry and exit at any point.

Code	wiring Ø mm	Roll m
14.140.01	2-15	50
14.140.02	7-40	25
14.140.03	13-70	25



Cavoflex sheath for electric cables

Spiral PVC sheath, smooth inside. Shock-proof and flame-retardant

Code	Color	inner Ø size mm	Ø outer mm	Roll m
14.144.16	Light grey	16	20.7	30
14.144.25	Light grey	25	30.6	30
14.144.32	Light grey	32	38	30

Joint between Cavoflex cable sheath and a box or bulkhead



Code	nominal Ø size mm
14.144.21	16
14.144.22	25

Hose clamp



Code	Description
14.144.01	Universal adjustable pipe holder strap; for rigid or flexible pipes. 16-32 mm beam Ø.



Plaited sheath

Made of grey polyester, suitable to gather and protect electric cables. One or more cables can be let out by opening the mesh at any point.

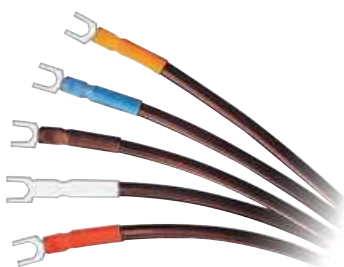
Code	Ø mm	Roll m
14.134.10	10	100
14.134.15	15	50
14.134.20	20	50
14.134.25	25	50
14.134.30	30	50



Protective sheath for electric cables

Black PVC protective sheath for electrical cables, pre-inflated for easy cable positioning.

Code	inner Ø mm	Thickness mm	Roll m	Code	inner Ø mm	Thickness mm	Roll m
14.132.04	4	0.3	200	14.132.12	12	0.5	100
14.132.06	6	0.4	200	14.132.20	20	0.8	100
14.132.08	8	0.4	200	14.132.26	26	0.9	50
14.132.10	10	0.5	200	14.132.30	30	1	50



Heat-shrinkable sheath made of polyolefin

Ideal for insulating electrical lugs or to trim splices on ropes. Maximum contraction ratio of 2:1.

Code	inner Ø starting size mm	Color	Roll m
14.130.03	6.4	Black	10
14.130.04	9.5	Black	10
14.130.05	12.7	Black	10
14.130.06	19.1	Black	10
14.130.07	25.4	Black	10
14.130.08	38	Black	5

Heat-shrink sheaths made of reticular polyolefin, watertight

Equipped with internal thermo-shrinkable adhesive allowing to wrap up and waterproof the internal components. 3:1 shrinkage rate. Black colour.

Code	Internal expanded Ø mm	Internal shrunk Ø mm	Shrunk wall thickness mm	Box pcs m
14.131.03	6	2	1.1	12
14.131.04	9	3	1.3	10
14.131.05	12	4	1.7	8
14.131.06	18	6	2	5
14.131.07	24	8	2.5	3



Electric heater

Two-speed heater for heat-shrink sheath treatment, 400 l/min air flow.

Code	volt	watt
14.122.12	220	1500



Gas-powered multipurpose tool

Heater/soldering tool for heat-shrinking sheaths and blade connectors in case the power supply is not available. Lighter-like gas bottle refill.

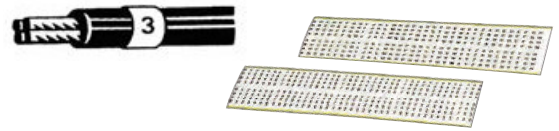
Code	Duration	Flame temperature	g
14.122.13	30 minutes	1300°	60



Self-adhesive numbers and letters, black on white background, 3-mm size

Designed to label electrical cables (obligatory identification labelling, see ISO 10133 point 7.8).

Code	ORDER BY BOX
14.148.01	320 numbers + 272 letters

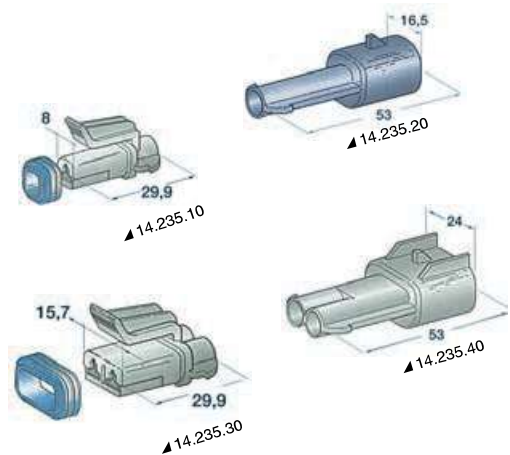


Watertight connectors for cables up to 1.2 mm²

Watertight connectors made of plastic

Watertight connectors complying with the ISO 15083 standards. Example of 2-pole connector: 1x14.235.30 / 1x14.235.40 / 2x14.236.45 / 2x15.236.46 / 4x14.236.48.

Code	Version	No. of poles	Brass male connector	Brass female connector	ORDER BY BOX
14.235.10	female	1	-	14.236.46	5
14.235.20	male	1	14.236.45	-	5
14.235.30	female	2	-	14.236.46	5
14.235.40	male	2	14.236.45	-	5
14.235.50	female	3	-	14.236.46	5
14.235.60	male	3	14.236.45	-	5



Male connection made of brass

Code	For fitting on	ORDER BY BOX
14.236.45	14.235.20; 14.235.40; 14.235.60	50



Female connection made of brass

Code	For fitting on	ORDER BY BOX
14.236.46	14.235.10; 14.235.30; 14.235.50	100



Silicone nipple for watertight closure

Code	For cable size mm ²	ORDER BY BOX
14.236.48	0,5/1,5	100



Watertight connectors for cables up to 10 mm²



Watertight connectors

A complete connector consists of item numbers: connector + 2 Faston male terminals 14.231.20/40 + 2 Faston female terminals 14.231.10/30 + 4 inserts with seals of suitable section 14.232.01/02.

Code	Version	For cable size mm ²
14.231.10	Faston female	4/6
14.231.20	Faston male	4/6
14.231.30	Faston female	8/10
14.231.40	Faston male	8/10
14.232.01	Plug with gasket	4/6
14.232.02	Plug with gasket	8/10

BULGIN BUCCANEER plugs and sockets

RINA type-approved, managed polarity, 100% watertight, IP 68 protection degree. Fibreglass-reinforced nylon body, nickel-plated brass contacts, watertight screw-in cap, type-approved in compliance with NATO military standards. Operating temperature range - 20°+ 70°.



Male contact plug

Flying plug to pair with a female contact socket.

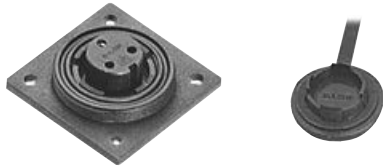
Code	Poles	Capacity
14.350.02	2	10 A
14.350.03	3	10 A
14.350.09	9	5 A



External socket, female contacts

Includes watertight cover.

Code	Poles	For coupling to
14.360.02	2	14.350.02
14.360.03	3	14.350.03
14.360.09	9	14.350.09



Built-in socket, female contacts

Includes watertight cover.

Code	Poles	For coupling with
14.370.02	2	14.350.02
14.370.03	3	14.350.03
14.370.09	9	14.350.09

Watertight deck plugs and sockets



Watertight plug

Fine built, maximum reliability, made of chromed brass.

Code	Socket + plug	A max	Ø base mm
14.187.02	2 poles	10	40
14.187.03	3 poles	10	40
14.187.04	4 poles	10	40
14.387.02	2 poles	20	46
14.387.03	3 poles	20	46
14.387.04	4 poles	20	46



Watertight plug made of polycarbonate and fitted with brass contacts

IP65

Fine built, maximum reliability.

Code	A max	Socket + plug	Base Ø mm
14.470.02	3 A	2 poles	40
14.470.03	3 A	3 poles	40
14.470.04	3 A	4 poles	40
14.471.02	5 A	2 poles	49
14.471.03	5 A	3 poles	49
14.471.04	5 A	4 poles	49



Culversterns flying plug

Watertight plug made of rubber and fitted with brass contacts.

Code	Poles	Max A	Version
14.188.02	2	10	Male + female
14.188.03	3	10	Male + female
14.188.04	4	10	Male + female

2-pole flying plug/socket

IP68 IP68 plug/socket micro connector.

Code	Poles	Max A	Cable section mm ²	Cable Ø mm	←→ outside mm
14.374.02	2	10	0.25-1.5	1x(3-8) / 2x(1.9-2.5)	Ø14 x 90



2/3/4-pole flying plug/socket

IP68 IP68 plug/socket connection.

Code	Poles	Max A	Cable section mm ²	Cable Ø mm	←→ outside mm
14.371.04	2/3/4	17.5	0.5 - 4	3x(2-4) / 4x(2-4)	Ø 23 x 113



2/3/4-pole plug/socket for panel or bulkhead mounting

IP66 IP66 plug/socket connection.

Code	Poles	Max A	Panel thickness mm	Cable section mm ²	Cable Ø mm	←→ outside mm
14.372.04	2/3/4	17.5	1-7	0.5 - 4	1x(4-12) 2x(2-4)	Ø 23



Fairleads and glands

SCANSTRUT vertical cable seals



They assure perfect watertightness (IP-X7) for cable passing. They allow the cables to pass without disassembling possible end connectors. Edgeless shape for higher resistance and to avoid possible blocks for the line. Threaded holes for easy assembling and numberless disassemblings.

Every item is supplied with a choice of pre-bored or to-be-bored seals for the utmost easiness and flexibility of use.

Packed in convenient display Blister.

Black plastic RETAIL (1pcs)	Black plastic BULK (10pcs)	Grey plastic RETAIL (1pcs)	Grey plastic BULK (10pcs)	SS RETAIL (1pcs)	Cable Ø mm	Connector B max Ø mm	A Ø mm
-	-	14.171.02*	-	-	2-6	6	30
14.170.02	14.170.82	14.172.02	14.172.82	14.173.02	2-8	16	39
14.170.04	14.170.84	14.172.04	14.172.84	14.173.04	4-9	21	49
14.170.09	14.170.89	14.172.09	14.172.89	14.173.09	9-14	21	49
14.170.10	-	14.172.10	-	14.173.10	9-14	30	59
-	-	-	-	14.173.12	12-15	40	69

* Satin-finished version



New

SCANSTRUT Low Profile stuffing box

SCANSTRUT

They guarantee perfect waterproofing (IP68) for cable passages. They allow cable passage without disassembling any terminal connectors. Threaded holes facilitate assembly and allow for an infinite number of disassemblies. Each piece comes with a choice of pre-drilled or to-be-drilled gaskets for maximum ease and flexibility of use. With the Low Profile range, the overall height of the cable glands/cable pass-throughs is reduced by over 70% compared to the standard range, resulting in a cleaner and more refined product; they allow for both vertical and horizontal installations.

A 100% guaranteed watertight seal. No additional marine sealant required.

Packaged in convenient display blister packs.

SS	Black anodized aluminium	Cable Ø mm	Max connector Ø B mm	Ø A
14.177.01	14.177.11	2-8	16	49.9
14.177.02	14.177.12	4-9	21	60.7
14.177.03	14.177.13	9-14	21	60.7
14.177.04	14.177.14	9-14	30	75.6
14.177.05	14.177.15	up to 15	-	-



▲ 14.177.01/02/03/04



▲ 14.177.11/12/13/14



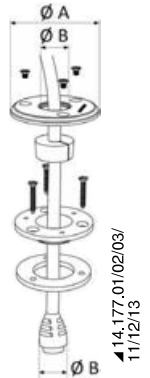
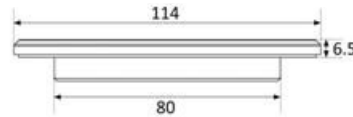
▲ 14.177.05



▲ 14.177.15



▲ 14.177.05/15



▲ 14.177.01/02/03/11/12/13

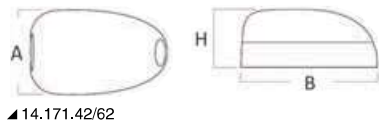
SCANSTRUT



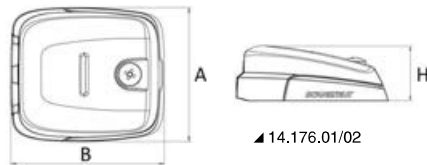
SCANSTRUT horizontal stuffing box

Made of fiberglass-reinforced nylon. IPX7 watertight. Supplied with pre-drilled seal and seal to be drilled. Display blister pack. No need of sealant or silicone for a sleek, easy-to-fit installation. The double cable seal is perfect for routing two solar panels cables.

Code	Model	Material	Cable Ø mm	←→ mm	Outlets
14.171.42	DS-H6	Plastic	2-6	28,5x46x20	1
14.171.62	DS-H10	Plastic	6-10	44x78x27	1
14.176.01	DS-HD6	Plastic	2-5/6	54x63x22	2
14.176.02	DS-HD10	Plastic	6-10	66.5x75.1x28.25	2



▲ 14.171.42/62



▲ 14.176.01/02

SCANSTRUT



SCANSTRUT multiple cable stuffing box

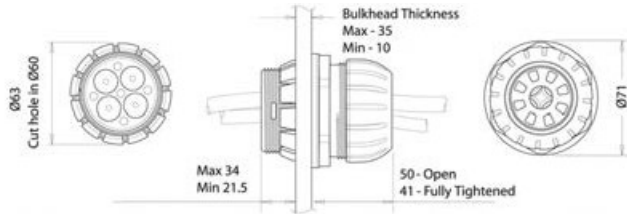
Designed for multiple cables having different diameter (up to 15mm), it offers perfect watertightness (IP-X7) for cable passing and lets the cable pass without disassembling end connectors, if any. Fitted with seal to be bored. Packed in a convenient display blister.

Code	Material	Cable Ø mm	Connector B max Ø	←→ mm
14.174.01	Anodised aluminium	Up to 15	18	99x48
14.174.02	Black plastic	Up to 15	18	99x48

Watertight bulkhead fairlead for large cables

IP67 To let cables through bulkheads. High-resistance moulded nylon with inside overmoulded seal. Easy to install.

Code	Material	Ø mm	For cables
14.175.04	Plastic	71	Up to 4 cables, 7- to 15-mm Ø
14.175.10	Plastic	71	Up to 10 cables, 5- to 7-mm Ø



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Fairlead gland

Made of watertight nylon, for electric cables.

Code	Ø base mm	Protrusion mm	For cable size mm
14.185.95	48	33	4-8
14.185.96	51	36	6-12



Fairlead gland to be fitted under the deck

Made of chromed brass, for cables to be fitted under the deck.

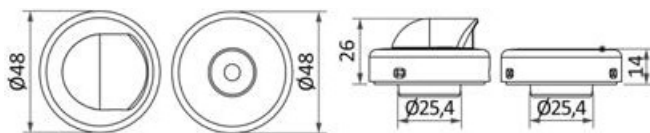
Code	Passage mm	ORDER BY BOX
14.186.01	6	10
14.186.00	8	10
14.186.03	10	10
14.186.02	12	1



Fairlead/gland made of nylon, fiberglass and stainless steel

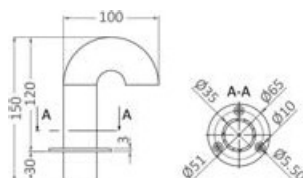
They ensure perfect watertightness (IP67) for cable passing. They allow the cables to pass without disassembling end connectors, if any. Fiberglass-reinforced nylon body with AISI316 stainless steel plug.

Code	Ø base	Protrusion mm	Cable Ø mm	Cable mounting
14.186.14	48	14	3-14	vertical (in line)
14.186.15	48	14	3-8	lateral (@ 90°)



Elbow outlet

AISI 316 14.481.92 Made of polished AISI 316 stainless steel, designed for electrical cables, from mast base to inside cabin.



Plugs, lighter jacks and accessories

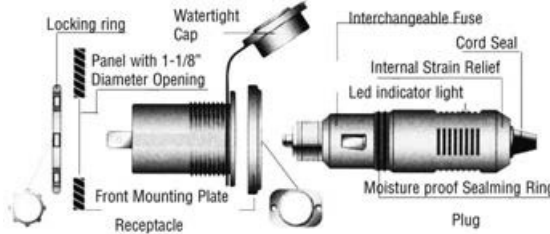
OSCULATI



Power socket + plug made of black polycarbonate

100% **water resistant**, either with protection cap closed or with lockable plug, equipped with a **special watertight collar** and a "lock-in" system that locks the plug by turning; designed for plug mounting with back screw nuts or two screw boards; suitable for lighters and cellular phones.

Code	Description	ORDER BY BOX
14.517.01	Socket + external mounting panel	5
14.517.02	Plug with fuse and red led light	5
14.517.00	Plug/socket kit 14.517.01+14.517.02	1



▲ 14.517.00



Marine lighter, 12 V

13.008.00 Made of **stainless steel** receptacle lighter/light; includes **charter light** on a knob with a separate switch.

OSCULATI



Power socket

100% **water-proof**, with either the cap closed or when it is plugged in, fitted with a **special watertight collar** and a locking system that locks the plug by turning it; the socket can be mounted with a rear screw-nut or with a 2-screw board, Standard socket for lighters, cellular phones; includes a plastic fairing and a base washer, designed for wall or ceiling mounting.

Code	Body	mm	Plug OPTIONAL
14.517.06	white	80 x 65 x 43	14.517.02
14.517.07	black	80 x 65 x 43	14.517.02



Socket for cellular phones or lighters

14.518.00 Made of **stainless steel**, fitted with watertight cap. It can be mounted with 2 screws through the front panel or using a screw nut from the back of the instrument panel.



Double socket

Watertight double socket for plugs 14.517.02. Supplied with panel.

Code	mm
14.517.08	105x45



Dual USB port current plug

It matches any CARLINGSWITCH, MARINAR and Marine TOP switch. It fits all types of frame 14.197.xx.

Code	Description	V	mm	A
14.195.60	Double USB-A port	12/24	49x25x51	2,1 + 1,0
14.195.59	Dual USB Quick Charge 18W+18W plug	12/24	49x25x51	3 + 2
14.195.62	USB-A + USB-C port	12/24	42x25x40	2,4 + 3
14.195.61	Double USB-A port + 5-30 V voltmeter	12/24	49x25x51	2,1 + 2,1
14.195.63	New Double USB-A port + 12/24 V voltmeter	12/24	49x25x51	3 + 3

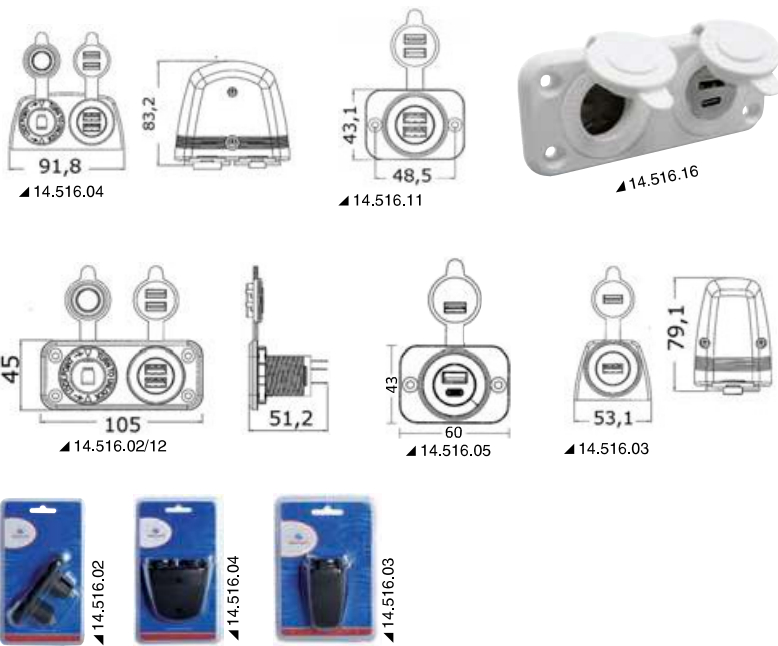


Lighter and/or USB socket

Made of nylon and fit with protection cap to make them waterproof. 12/24V input, 5V USB output.

Black	White	Description	A
-	14.516.11	Double USB plug, mounting with rear nut + panel	2.1
14.516.05 New	14.516.15 New	A-type USB plug + C-type	4.8*
14.516.02	14.516.12	Lighter plug + double USB with panel	2.1
14.516.06 New	14.516.16 New	Plug/lighter plug + double USB-A + USB-C with panel	4.8*
14.516.03	-	USB plug + body for flat mounting	2.1
14.516.04	-	Lighter plug + double USB + body for flat mounting	2.1

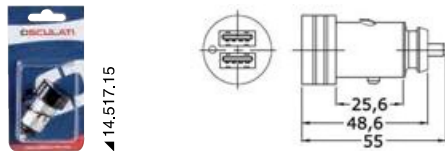
* 3 + 3 if used one at a time



12/24V USB plugs

UBS connection to plug into standard current/lighter sockets.

Code	Description	V	A	Fuse + LED activation
14.517.19 New	Double USB type A+C	12/24	2,4	Yes
14.517.15	Double USB type A with watertight cap	12/24	2,4	Yes



Extension spiral cable

14.507.00 3.60-m version with double male/female plug (lighter type).

Suitable for socket type 14.519.10; 14.519.12 and 13.008.00, on the other side portable phones, lights, etc.



Digital voltmeter/ampere meter and sockets for recess mounting

With or without front panel.

Code	8/32V digital voltmeter	0/10A digital ammeter	Power outlet	Dual USB plug	Dual USB plug Type A+C	A	Version
14.516.30	New x				x	3 + 3	For recess fit
14.517.20	x						For recess fit
14.517.21	x		x				For recess fit
14.517.42	x			x		2,4 + 2,4	For recess fit
14.517.52	New x				x	3 + 3	For recess fit
14.517.43	x		x	x		2,4 + 2,4	For recess fit
14.517.53	New x		x		x	3 + 3	For recess fit
14.517.25	x	x					For recess fit
14.517.26	x	x	x				For recess fit
14.517.28	x	x	x	x		2,1 + 1,0	For recess fit
14.517.29	New x	x	x		x	2,4 + 2,4	For recess fit

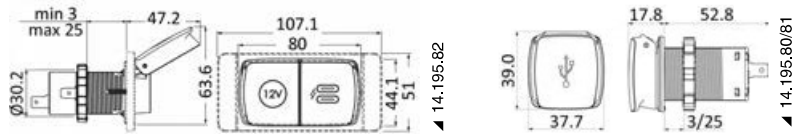


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SCANSTRUT Flip Pro USB-A and USB-C watertight sockets

IPX4 waterproof when the cover is closed. Very small size. Available in 3 versions: A+C USB socket, power socket, combo (USB + current socket).

Code	Description	V	Max current A	Mounting hole Ø mm
14.195.80	A+C USB socket	12/24	6	32
14.195.81	New Power socket	12	-	32
14.195.82	New A+C USB socket and power socket	12/24	6	2x32



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Socket + USB cable (IPx6 watertight)

Waterproof fast recharge double port USB. It recharges up to two devices much faster than standard USB sockets. Very low profile ideal for navigation.

Code	Description	Volt	A	mm
14.195.67	Dual USB socket Type A + Type A. AISI316 SS metal parts, UV-resistant plastic parts, electric circuit fitted with anti-saline and anti-corrosion coating.	12/24	2 x 2.1	29x94
14.195.68	Dual USB socket Type A + Type C. AISI316 SS metal parts, UV-resistant plastic parts, electric circuit fitted with anti-saline and anti-corrosion coating.	12/24	2 x 3	29x94
14.195.70	2-m USB cable. Stainless connectors with patented anti-corrosion protection. Special heavy-duty oil- and abrasion-resistant cable. For iPhone and iPad.	12/24	5	-

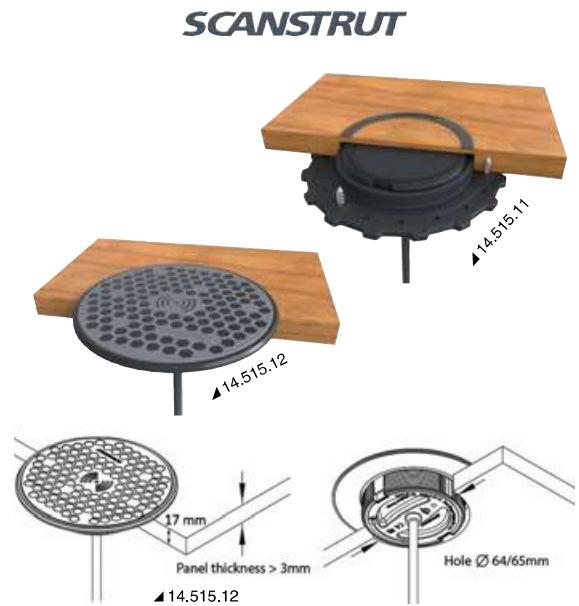
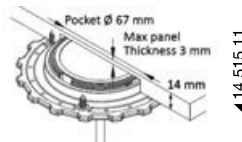


ROKK watertight wireless battery charger

The ROKK wireless IPX6 12/24V series (Qi certified) allow recharging mobile phones and tablets by simply placing them on the charger. Designed for marine use, they are 100% watertight. The two outdoor version feature an excellent anti-skid and UV-resistant surface. 3 versions are available depending on the installation mode the user prefers.

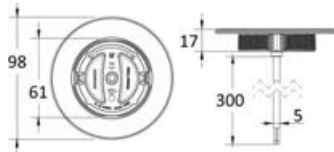
Input		Dimensions	Cable
12/24 V		Ø 96 mm	30 cm

Code	Version	Description	Output W
14.515.11	Hidden	Hidden version for installation under the surface. A single anti-skid ring is visible to indicate the position	10
14.515.12	Surface	Flush version to be recessed into the cabinet	10

**ROKK SUB wireless watertight battery charger with invisible integrated charging - 10W**

To be installed indoors or outdoors under any non-metallic material (fiberglass, leather, PVC, fabric, wood, carbon fibre, etc.) IPX6 watertight, compatible with any mobile phone having a non-metallic case and 3-mm minimum thickness. Qi wireless charging technology (Apple, Samsung, Huawei, etc).

Code	Input V	Output W	mm
14.515.15	12/24	5	Ø 98 x 17

**SCANSTRUT****ROKK Wireless Nano 10W watertight wireless phone charging mount**

Wireless phone charging mount designed for the marine environment. For phones 56- (2.16") to 106-mm (4.17") wide. 100% IPX6 watertight.
 - Safe grip securely holds your phone.
 - One-handed dock/charge operation.
 - Installation on any flat surface.

Code	Input V	Output W	mm	
			closed	open
14.514.12	12/24	10 (9V, 1.1 A)	80x34x72	130x34x72

SCANSTRUT**ROKK ACTIVE watertight wireless phone charging mount**

High-performance wireless phone charging mount designed for marine environment. For phones 120-mm (4.7") to 173-mm (6.8") long.
 - 100% IPX6 watertight.
 - Self-aligning grip securely holds your phone.
 - Anodized aluminium case.
 - One-handed dock/charge operation.
 - Installation on any flat surface.
 - LED charge indicator.

Code	Input V	Output W	mm		Cable cm
			closed	open	
14.514.11	12/24	10	74x33x142	74x33x206	50

SCANSTRUT

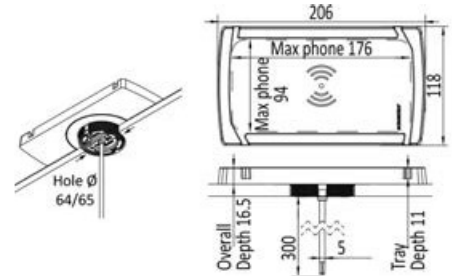
SCANSTRUT



ROKK wireless Catch watertight battery charger - 10 W

Safely holds & wirelessly charges your phone at the same time. Now you can keep your phone in a safe place onboard, in sight, charged and ready to go. Designed to easily install onto any flat surface. Simply place your phone onto the center of the charging mat and instantly start wirelessly charging. Qi certified.

Code	Input V	Output W	mm
14.515.17	12/24	10	206x118



SCANSTRUT



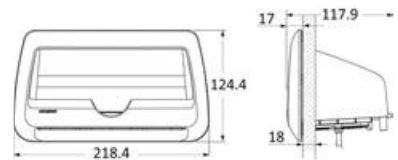
ROKK wireless Cove LED 10W watertight battery charger

IPX6

It keeps phones in a safe place onboard and wireless charge them at the same time. Tapered front design with reduced thickness, perfect for integration into consoles, bulkheads, seating, cabinetry and more. Simply slide the phone into the pocket and instantly start wireless charging. The internal grippy mat stops the phone sliding around making sure the phone always stays safe.

- Waterproof Rating: IPX6.
- 10W fast charging.
- Input Voltage Range: 12/24V.
- It fits any boat.
- Instantly start wireless charging, no connection required.

Code	Input V	Output W	mm
14.515.18	12/24	10	218,4x124,4x117,9 (depth)



SCANSTRUT

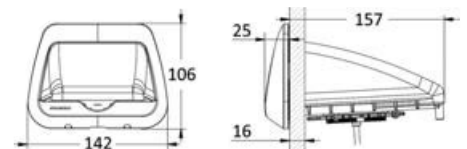


ROKK NEST watertight wireless phone charging pocket - 10 W

Wall-mount recess-fit wireless phone charging pocket perfect for integration into consoles, seating, cabinetry and more. Simply place your phone onto the grippy mat of the pocket and instantly start wirelessly charging. 12/24V charging. Compatible with any phone having a non-metal case at least 3-mm thick. Qi wireless charging technology (Apple, Samsung, Huawei, etc).

IPX6 watertight. Fitted with a water draining system, it can also be used to store objects other than you phone.

Code	Input V	Output W	mm
14.515.16	12/24	10	142x106x182 (depth)



Plugs and sockets for trailers

Socket and 7-pole plug



Type-approved for towing. Made with **black ABS** and **chromed brass** parts.
Long lasting and 100% rust-proof model.

Code	Description	V
14.190.00	Socket + plug	12
14.190.01	Nur socket	12
14.190.02	Nur plug	12

13-pole plug



Made of **black ABS** with **chromed brass** parts. To be coupled with socket 14.191.01.

Code	V	For terminals
14.191.02	12	ISO 11446

13-pole socket



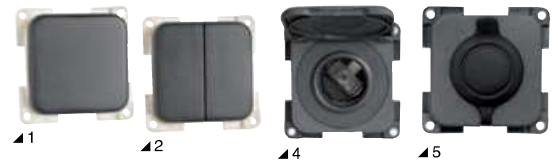
12 volt, suitable for towing, ISO 11446. Made of **black ABS** with **chromed brass** parts.

Code	V	For terminals
14.191.01	12	ISO 11446

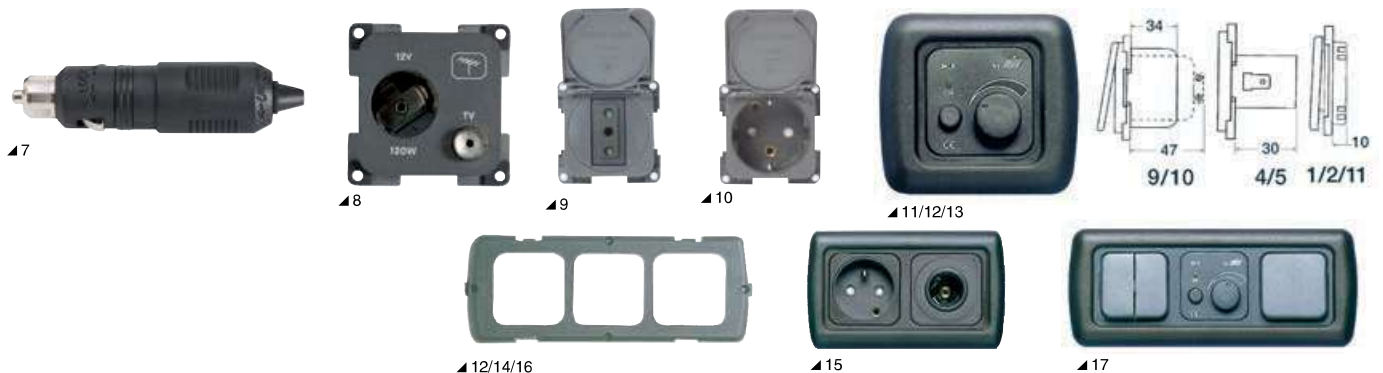
Modular switches, sockets and plugs

Modular electrical material

CE Made of plastic, **stainless steel** and **brass**, easy to mount, fine looking product. **Module** 50x50mm.



Product	Dark grey
1 - ON-OFF switch, 10-mm recess thickness, 12/24 V	14.650.01
1 - ON-OFF switch, 10-mm recess thickness, 12/24 V (needed to switch on the light from 2 different places)	14.650.00
2 - Dual ON-OFF switch, 10-mm recess overhang, 12/24 V	14.650.02
50-mm Ø rear protection for switch 14.650/660.01/02, 35-mm depth	14.650.03
4 - Phone or lighter socket with snap cover, 12/24 V	14.651.01
5 - Mobile phone or lighter socket for outdoor purposes with watertight cap, 12/24 V	14.651.02
6 - Dual USB socket, 1A and 2.1A outputs	14.651.04 New
7 - Electrical plug matching 14.651.01/02 - 14.661.01/02	14.517.02
8 - TV antenna socket + mobile phone or lighter socket	14.652.01
9 - Standard bipolar electrical socket with earth and snap cover and protection (47-mm recess thickness, 45-mm Ø recess)	14.653.01
10 - Schuko bipolar electrical socket with earth on its perimeter, snap cover and rear protection (50-mm Ø, 34-mm overhang)	14.653.02
11 - 40W electronic dimmer for cab lights	14.654.02
12 - Switch and socket snap mounting support, single	14.657.02
13 - 85x78-mm snap-mounting screwcover frame, single	14.655.02
14 - Switch and socket snap mounting support, double	14.658.02
15 - 139x78-mm snap-mounting screwcover frame, double	14.655.03
16 - Switch and socket snap mounting support, triple	14.659.02
17 - 192x78-mm snap-mounting screwcover frame, triple	14.655.04



Båtsystem

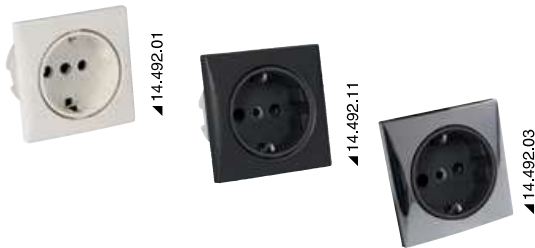


Socket and switch

Elegant panel fitted with BATSYSTEM switches

Single switch	Dual switch	Colour		A per switch
		Front panel	Rocker	
14.486.11	14.486.15	Black	Black	10
14.486.02	14.486.06	Chromed	Black	10

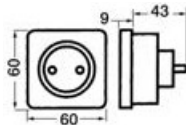
Båtsystem



Schuko power socket

Fitted with frame, 16A.

Code	Colour		Voltage	Recess Ø mm	Panel mm
	front panel	socket			
14.492.01	White	White	AC 220 V	52	60x60
14.492.11	Black	Black	AC 220 V	52	60x60
14.492.03	Chromed	Black	AC 220 V	52	60x60



Båtsystem



USB port

For mobile phones, MP3, cameras, etc.

Code	Colour		V	Outlet	USB
	front panel	socket			
14.494.11	Black	Black	12/24	5 V/2A	A+C
14.494.03	Chromed	Black	12/24	5 V/2A	A+C



Power socket, watertight

Waterproof power socket, carlighter type

Code	Colour		V	Recess Ø mm
	front panel	socket		
14.491.03	Chromed	Black	12	53

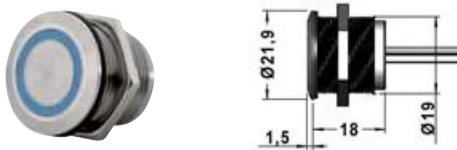
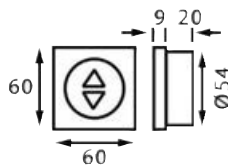
Båtsystem



BATSYSTEM rheostat

For 24W LED bulbs with microprocessor that dims the light when the battery load reaches a critical level.

Code	Colour	Recess Ø mm
14.024.03	Chromed	52x20 depth
14.024.11	Black	52x20 depth



Dimmerable touch switch for LED lights

IP65

100% stainless steel and waterproof.
A light touch activates the ON-OFF function.
Keep pressed to activate the dimmer. Orange LED (OFF), white LED (ON).

Code	V	Capacity W	Bore Ø mm
14.482.00	12/24	18	19



Motion sensor

IP65

Infrared sensor that can be applied to no matter what light. 5-m and 120° operating range. 10-70 second activation.

Code	V	Max A	Max W	LED beam angle
14.481.00	12/24	5	24	120°

Rocker switch, bulkhead-mounting model

For cabins, low voltage. Max 15A.

Code	Colour	Switch		mm
		colour	N.	
14.101.15	polished stainless steel	<input type="checkbox"/> white	1	51x64
14.102.15	polished stainless steel	<input type="checkbox"/> white	2	51x64



Contemporary switches

Low voltage cabin switches made of nylon.

Code	Colour	Max A at 12 V	External mm	Hole mm	No of switches
14.484.01	<input type="checkbox"/> White	15	68x71	37x46	1
14.484.02	<input type="checkbox"/> White	15x2	68x71	37x46	2



▲14.484.01



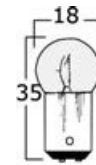
▲14.484.02

Bulbs and incandescent bulbs

Bipolar bulb

Parallel-pole small bulb.

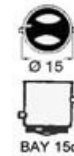
Code	volt	watt	Type	Poles	ORDER BY BOX	Code	volt	watt	Type	Poles	ORDER BY BOX
14.200.00	12	5	BA15D	parallel	10	14.200.02	12	10	BA15D	parallel	10
14.200.01	24	5	BA15D	parallel	10	14.200.03	24	10	BA15D	parallel	10



Vertical filament bulb

Offset poles. Special model for type-approved navigation lights such as Osculati Utility lights, as well as Hella, Dhr or Aqua Signal.

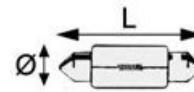
Code	Voltage	W	Type	ORDER BY BOX	Code	Voltage	W	Type	ORDER BY BOX
14.220.00	12	25	BAY15D	10	14.220.03	24	10	BAY15D	10
14.220.01	24	25	BAY15D	10	14.220.04	12	15	BAY15D	10
14.220.02	12	10	BAY15D	10					



Festoon bulb

For lamps, ceiling fixtures, signal lights.

Code	V	W	L mm	Ø mm	ORDER BY BOX	Code	V	W	L mm	Ø mm	ORDER BY BOX
14.300.00	12	10	37	10	10	14.400.01	12	8	31	10	10
14.300.01	24	10	37	10	10	14.400.02	12	5	31	8	10
14.300.05	12	5	37	10	10	14.400.03	24	5	31	10	10
14.300.06	24	5	37	10	10	14.202.12	12	15	45	15	10
14.400.00	12	10	31	10	10	14.202.24	24	15	45	15	10



Bayonet bulb

Small version, BA9S base.

Code	V	W	ORDER BY BOX
14.250.00	12	4	10



Halogen bulb

JC with G4 screw

Code	V	W	ORDER BY BOX	Code	V	W	ORDER BY BOX
14.453.01	12	20	10	14.455.12	12	5	10
14.454.12	12	10	10	14.455.24	24	5	10
14.454.24	24	10	10	14.100.24	24	20	10



Dichroic halogen bulb

With G4 screw reflector.

Code	Type	V	W	Ø mm
14.258.57	MR16	12	35	50
14.258.58	MR16	24	35	50



Watertight incandescent bulbs

Spare bulb for a wide range of navigation lights and crosstree lights.

Code	V	W	Watertight bulb version	mm
14.249.01	12	30	-	110 (4")
14.249.02	12	100	-	110 (4")
14.249.04	24	100	-	140 (5 3/4")
14.249.05	12	100	-	174 (7")
14.249.06	24	170	-	174 (7")
14.249.07	12	35	splined for crosstree lights	110 (4")
14.249.08	24	50	splined for crosstree lights	110 (4")
14.249.11	12	50	splined - halogen	110 (4")



LED light bulbs



SMD LED bulb, G4 connection

LED It replaces all G4 connection halogen bulbs

Code	Screw	chip Ø mm	V	W	W equivalent	lumen	K	LED beam angle	No of LEDs	Connection
14.450.01	G4	30	12/24	2	15	200	2700	120°	12	side
14.450.05	G4	24	12/24	1,2	7	120	2700	120°	6	side
14.450.09	G4	28	12/24	1,6	11	160	2700	120°	9	side
14.451.00	G4	24	12/24	1,4	10	90	2700	150°	1 HD	side
14.450.02	G4	30	12/24	2	15	200	2700	120°	12	rear
14.450.06	G4	24	12/24	1,2	7	120	2700	120°	6	rear
14.450.10	G4	28	12/24	1,6	11	160	2700	120°	9	rear



Bicolour SMD LED bulb, G4 screw

LED Repeatedly press the switch to activate either the white or red/blue light. It perfectly retrofits the existing electric installation.



Code	LED colour	V	Chip Ø mm	W	W equivalent	No of LEDs	Lumen	K	LED beam angle	Connection
14.450.31	white/blue	12	31	1,6/0,8	10/5	16	180/20	3000	120°	side
14.450.32	white/blue	24	31	1,6/0,8	10/5	16	180/20	3000	120°	side
14.450.33	white/red	12	31	1,6/0,7	10/4,5	16	180/25	3000	120°	side
14.450.34	white/red	24	31	1,6/0,7	10/4,5	16	180/25	3000	120°	side



LED light bulb - G4 side screw

LED Model fitting a single high-power SMD LED bulb.

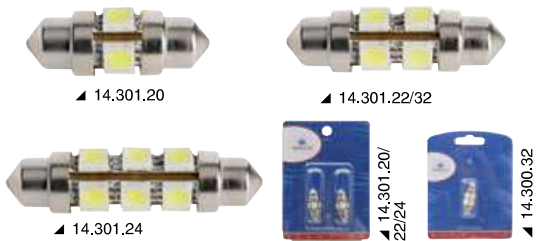
Code	Screw	V	W	W equivalent	Lumen	K	LED beam angle	Connection	mm
14.450.15	G4	12/24	1,5	15	130	3000	120°	Lateral	33x16



LED light bulb - G4 screw, 360° light

LED High-power SMD LED version.

Code	Screw	V	W	W equivalent	Lumen	K	LED beam angle	Connection	mm
14.450.18	G4	12	1,6	18	150	3000	360°	In axis	10x38



Festoon LED bulb

LED Equipped with LED having a 360° light cone.

Code	V	Length mm	LED	Chip	W	lumen	K	Suitable for lights	Package
14.301.20	12	31	4	12	0,7	60	3000	Compact 12 and 11.507.xx	2 pcs
14.300.32	12	36	8	24	1,7	89	3000	General purposes, 36-mm lamp holder centre distance	1 pc
14.301.22	12	38	8	24	1,4	120	3000	Classic 12 / Utility 85 / Utility 77	2 pcs
14.301.24	12	44	12	36	2	180	3000	Maxi 20	2pcs



BA15D LED bulb for anchor lights, aligned bayonet pins

LED It can replace a 10W bulb in anchor lights 11.132.xx, 11.133.xx, and similar.

Code	V	W	W equivalent	lumen	K	LED beam angle	Poles
14.223.00	12/24	1,2	10	100	3000	170°	Parallel

SMD LED bulb for spotlights, BA15D screw

LED BA15D screw (15-mm bayonet with aligned pins).

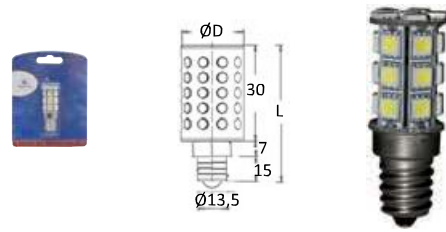
Code	V	W	W equivalent	lumen	K	Ø D mm	L mm
14.443.11	12/24	1,5	12	150	2700	16	41
14.443.12	12/24	2,5	20	220	2700	19	43
14.443.13	12/24	3	35	300	2700	20	55



LED SMD light bulb with E14 connection

LED For spotlight with Edison E14 screw.

Code	V	W	W equivalent	lumen	K	Ø D mm	L mm
14.443.10	12/24	2,5	20	220	3000	20	50



SMD LED bulb with BA15D screw

LED **IP65**

For spotlights with glass cover LED. BA15D screw (15-mm bayonet with aligned pins)

Code	volt	Consumption W	W equivalent	Lumen	K	Ø D mm	L mm
14.443.15	12/24	1,2	10	100	3000	18	40
14.443.16	12/24	2,5	23	240	3000	18	54
14.443.17	12/24	3	28	280	3000	25	67



SMD LED bulb, E14/E27 screw

LED LED glass cover

Code	Screw*	V	W	W equivalent	Lumen	K	Ø D mm	L mm	IP
14.443.20	E14	12/24	2,5	23	240	3000	18	54	65
14.443.21	E14	12/24	3	28	280	3000	25	67	65
14.443.22	E27	12/24	2,5	30	220	3000	32	78	40

* E14 = small Edison screw; E27= large Edison screw

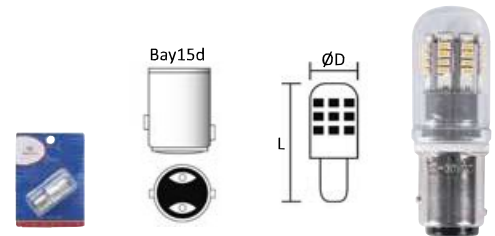


BAY15D LED bulb, offset pins for navigation lights

LED **IP65**

For navigation lights (11.417.xx; 11.427.xx; 11.134.xx; 11.135.xx, 11.136.xx; DHR series 35/55; Aqua signal 40/41; Hella 2984; Lalizas N20/S20 and similar).

Code	V	W	W equivalent	Lumen	K	Ø D mm	L mm
14.444.01	12/24	2,5	25	240	3000	18	54



SMD LED bulb for spotlights, G4 screw

LED G4 connection (halogen-type bulb).

Code	V	W	W equivalent	lumen	Light	Ø D mm	A mm	B mm	L mm
14.441.11	12	1	10	100	2700	13,5	23	24,5	34,5
14.441.12	12/24	2	15	200	2700	15	25	26,5	36,5
14.441.15	12/24	2,2	20	220	2700	15	23	24,5	34,5



LED bulb for lights, courtesy lights and navigation lights, BA9S screw

Bulb cap BA9S, it can replace traditional bulbs.

Code	V	W	lumen	K	Ø D mm	L mm
14.225.01*	12	0,5	50	2700	12	28
14.225.02	12	1	100	2700	12	34

* It can replace the traditional bulb in all spot lights series 11.412.xx - 11.413.xx



LED spotlight

LED Equipped with 4 x HD LEDs. Power equivalent to a 35-watt halogen bulb.

Code	V	W	Lumen	K	LED beam angle	Type	Ø mm
14.258.56	12/24	4	260	6000	45°	MR16	50

