

WWW.CABLEJOINTS.CO.UK THORNE & DERRICK UK

TEL 0044 191 490 1547 FAX 0044 477 5371 TEL 0044 117 977 4647 FAX 0044 977 5582 WWW.THORNEANDDERRICK.CO.UK



UNAV PLUGS AND INTERLOCKED SOCKET-OUTLETS



PLUGS AND INTERLOCKED SOCKET-OUTLETS

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PLUGS, SOCKET-OUTLETS, INDUSTRIAL DISTRIBUTION BOARDS AND TURRETS





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LIGHTING

POWER FOR CONTAINER HANDLING



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TAIS page 230







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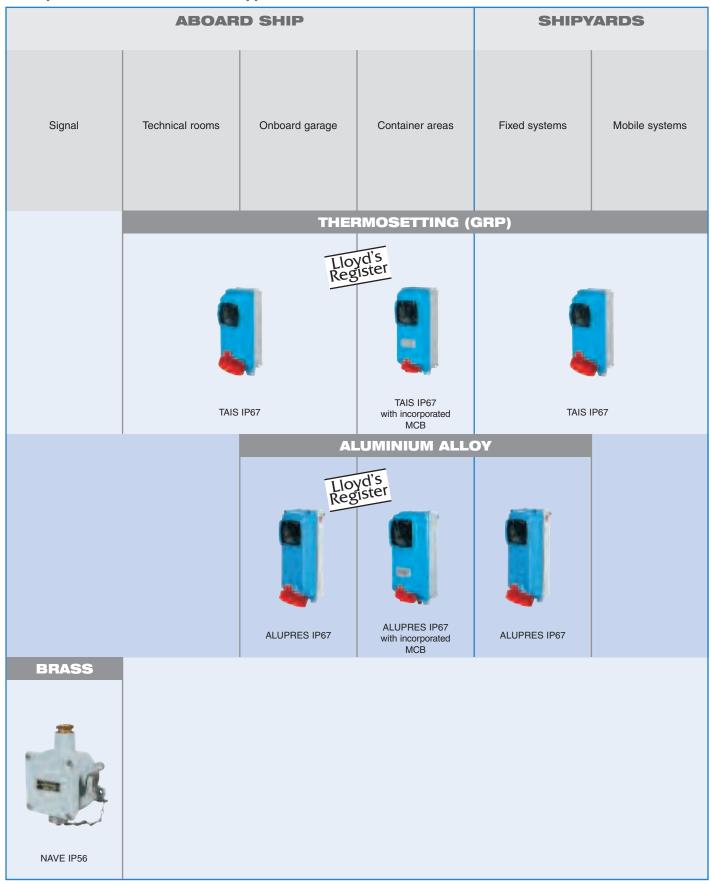




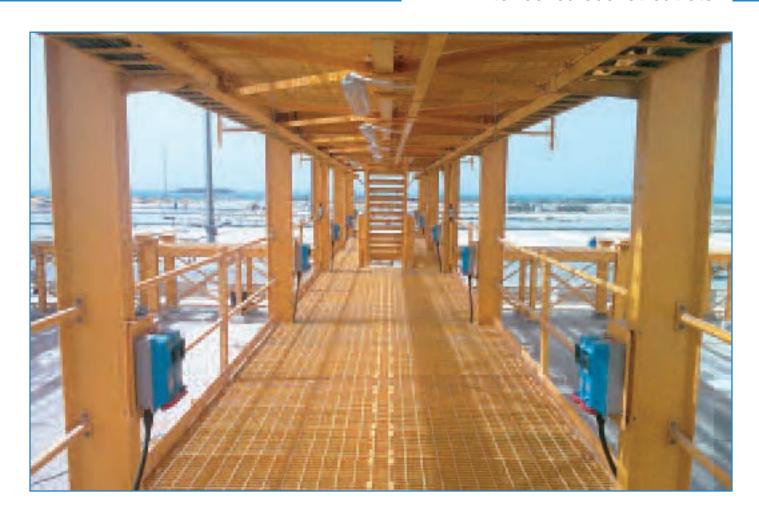
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INTERLOCKED SOCKET-OUTLETS MARINE USE

The products and recommended applications



Interlocked socket-outlets





TAIS 230 In thermosetting (GRP) material IP65/IP67



NAVE 231 In brass IP56/IP66



ALUPRES 230 In aluminium IP55/IP67



topTER In thermoplastic IP66/IP67

CONNECTION SYSTEMS FOR CONTAINERS

Thermosetting (GRP)



TAIS SERIES

Wall-mounted socket-outlet with MCB, mechanical interlock, signal lamp, in thermosetting (GRP) insulating modular enclosure IP67 > IK10

Lloyd's Register

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+ ÷	3	474771	1



TAIS SERIES

Wall-mounted interlocked socketoutlet with direct power supply in thermosetting (GRP) insulating modular enclosure ÍP67 > IK10

Lloyd's Register

Rated current (A)	Rated voltage	Voltage colour	Dimensions (mm)	Poles	h ref.	Palazzoli code	Pack Q.ty
32	380/440V		91,5x240	3P+ ÷	3	469233	1



TAIS SERIES

Wall-mounted interlocked socketoutlets and EN50022 rail, transparent door, in thermosetting (GRP) modular enclosure IP67 > IK10

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+ ÷	3	472133	1

Aluminium



ALUPRES SERIES

Wall-mounted socket-outlets with MCB, mechanical interlock, signal lamp in modular enclosure made of aluminium alloy - IP67 > IK10

Lloyd's Register

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+±	3	474486	1



ALUPRES SERIES

Wall-mounted interlocked socketoutlet with direct power supply in thermosetting (GRP) insulating modular enclosure ÍP67 >IK10

Lloyd's Register

Rated current (A)	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	380/440V		3P+ ÷	3	460233	1



ALUPRES SERIES

Wall-mounted interlocked socketoutlets, EN50022 rail and transparent door in aluminium alloy modular enclosure IP67 >>IK10

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V	•	3P+±	3	472735	1



Thermoplastic



topTER SERIES Interlocked socket-outlets for thermoplastic distribution board installations IP66/IP67

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+ ÷	3	491233	1

Brass



NAVE SERIES Watertight UNAV 2169 plugs in brass enclosure painted marine grey, with switch, for supply to refrigerated containers IP66

Rated current (A)	Frequency	Rated voltage	Poles	h ref.	No. entries	Entries	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V	3P+ ÷	3	1	30x18	472401	1
						M30x2		
_					ι	JNAV 194	8	
	50/60Hz	380/440V	3P+ ÷	3	2 side	1" gas	472411	1
					opposite			



NAVE SERIES UNAV 2172 watertight plug in painted marine grey brass IP66

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+ ÷	3	477411	2

Equipment:

36x21 cable gland UNAV 1948.

Uses:

for refrigerated containers power supply.



CEE SERIES
High performance straight
watertight plugs, low voltage

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+±	3	477486	1



CEE SERIES 90° angled watertight wallmounting appliance inlets, high performance and low voltage

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+÷	3	476486	1

Complementary items: watertight covers on page 26.



CEE SERIES Watertight straight connectors, high performance and low voltage IP67

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+÷	3	473486	1



topTER SERIES Angled fixed plugs for distribution board installation IP66/IP67

Rated current (A)	Freq.	Rated voltage	Voltage colour	Dimensions (mm)	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		88x100	3P+±	3	489233	1



NAVE series **Corrosion Immunity**

Watertight fixed interlocked socket-outlets in brass to UNAV standards

> No cracks

The NAVE SERIES plugs and socket-outlets are designed for the specific system requirements for use on board container ships and ferries, in warehouses for container transit and shipping and in maritime terminals. The enclosures are made of die-cast brass, oven-painted in marine grey. The cover and internal/external floor fixing screws are made of stainless steel. The plug has bayonet connection for plug watertight locking. The ring nut and the protection cover are made of selfextinguishing insulating materials, held back by a stainless steel chain. The insulating contact holding part is in thermosetting (GRP) material and the socket contacts are made of nickel-plated brass. The plug has the grip and ring nut in die-cast brass and nickel coated brass pins. The UNAV connections are ideal for cables with minimum section of 2.5 and maximum section of 10mmq. The cable gland in insulating

material is equipped with cable clamp that adapts to the different cable diameter, from the minimum to the maximum section, turning the position of the two installation collars of 180°. All the equipment is only made of watertight material (IPX5 for below board or covered applications and IP56 for use on the open deck since it is subject to the risk of flooding). It generally complies with the UNAV naval standardisation tables.

Trademarks, symbols, awards



THE ADVANTAGES



ETERNAL

All the components of the NAVE series are made of non-magnetic material with very high resistance to oxidation, such as die-cast solid brass, stainless steel, which ensures durability.



SUPER-RESISTANT

Characterised by a reinforced structure with even thicker walls, they are ideal in cases of extreme stress/vibrations (engine rooms) and also ensure high impact resistance.



ECO-FRIENDLY

Brass does not cotain toxic substances. It is, therefore, in conformity with the current directives regarding health and ecology.

NAVE series				
PRODUCT SPECIFICATIONS				
Conformity to standards:	specific UNAV standards			
Protection rating:	IP66			
Impact resistance:	> IK 10			
Temperature	Operating:	-40°C - +70°C		
resistance:	Storage:	-50°C - +80°C		
Casing:	Painted solid brass			



NAVE SERIES Watertight UNAV 2169 plugs in brass enclosure painted marine grey, with switch, for supply to refrigerated containers IP66



NAVE SERIES Watertight UNAV 1436 interlocked plugs in brass enclosure painted marine grey, with cable glands **UNAV 1948** IP56

Rated current (A)	Rated voltage	Poles	No. cable glands	Palazzoli code	Pack Q.ty
10	127V~	2P+ <u>÷</u>	1	462151	1
	230V~	2P+÷	1	462131	1

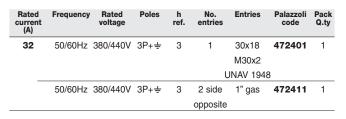
Equipment:

brass cable glands M24x1.5. Earth screws inside and outside the box.



NAVE SERIES Watertight UNAV 1437 plugs with ring-nut and rubber protection sleeve İP56

Rated current (A)	Rated voltage	Poles	Palazzoli code	Pack Q.ty
10	24V~	2P+ ÷	467021	10
	127V~	2P+ <u>÷</u>	467051	10
	230V~	2P+÷	467031	10



Equipment:

brass cable glands 3x16 mm² terminal block on ceramic support.

Characteristics:

switch is controlled directly by inserting/removing the plug.

Uses:

on board container ships and ferries, in container warehouses and maritime, naval, railway terminals, etc.



NAVE SERIES Watertight screwcaps with gasket for UNAV 2169 socket outlet entries IP66

Thread	Manufacture	Palazzoli	Pack
	material	code	Q.ty
1" gas	brass	472901	10



NAVE SERIES UNAV 2172 watertight plug in painted marine grey brass iP66

Rated current (A)	Frequency	Rated voltage	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
32	50/60Hz	380/440V		3P+≑	3	477411	2

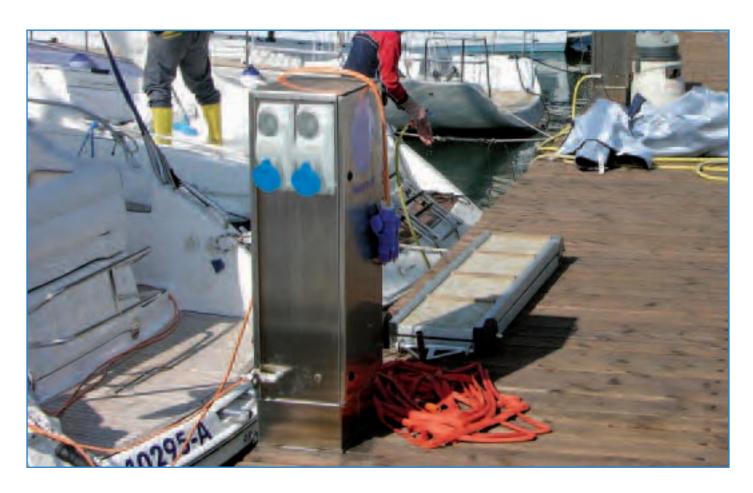
Equipment:

36x21 cable gland UNAV 1948.

Uses:

for refrigerated containers power supply.

Pontoon installed distribution turrrets





B-SMART 235

For wharfs



B-SMART 236

For camp sites and urban areas



B-SMART

236

237

For fire prevention



B-SMART

Technical accessories

PLUGS, SOCKET-OUTLETS, INDUSTRIAL DISTRIBUTION **BOARDS AND TURRETS**



B-S	MART serie	es		
PRODUCT SPECIFICATIONS				
Conformity to standards:	CEI EN 60439-1	CEI 17-13/1		
Protection rating:	IP56			
Impact resistance:	>> IK 10			
Protections:	1 residual current circuit-break	er for each socket-outlet		
Lighting:	9W 230V flourescent lam	p		
Insulation class:	II			
Temperature	Operating:	-25°C - +50°C		
resistance:	Storage:	-30°C - +70°C		



B-SMART SERIES Compact turrets in stainless steel AISI 316L for wharfs with 2 industrial socket-outlets and 2 water taps Class II - >>IK10 IP56

Industrial socket-outlets 2P+	Dimensions (mm)	Palazzoli code	Pack Q.ty
2x16A	360x895x208	576100	1
1x16A / 1x32A	360x895x208	576101	1



B-SMART SERIES Compact turrets in stainless steel AISI 316L for wharfs with 2 industrial socket-outlets and 2 water taps Class II - >>IK10 IP56

Industrial in 2P+± 220V	terlocked soc 3P+≑ 380V	ket-outlets 3P+N+± 380V	Dimensions (mm)	Palazzoli code	Pack Q.ty
2x16A			360x895x208	576110	1
1x16A			360x895x208	576111	1
1x32A					
		2x63A	360x895x208	576112	1
		1x32A	360x895x208	576113	1
		1x63A			

Characteristics:

terminal block. Switch compartment door with triangular safety lock. Antiwrench device for cables. Suitable for fastening onto concrete using max M8 threaded pins (not supplied).

Equipment:

the cabinet is supplied with 9W-230V fluorescent lighting, power supply and G23 lampholder (bulb not supplied). Water taps (to fit) with 1/2" female coupling and hose connection.



B-SMART SERIES Standard stainless steel turrets AISI 316L for wharfs with 4 interlocked socket-outlets and 4 water taps Class II ->> IK10 IP56

Industrial in 2P+≑ 220V	nterlocked soc 3P+≑ 380V	ket-outlets 3P+N+≑ 380V	Dimensions (mm)	Palazzoli code	Pack Q.ty
4x16A			360x895x276	576200	1
4x32A			360x895x276	576201	1
2x16A	2x16A		360x895x276	576202	1
2x16A			360x895x276	576203	1
2x32A					
2x16A		2x16A	360x895x276	576205	1
2x16A	1x16A	1x32A	360x895x276	576206	1

Characteristics:

3P+N+ ± 35 mm² power supply terminal block, 2P 6 mm² lighting circuit terminal block. Switch compartment door with triangular safety lock. Anti-wrench device for cables. Suitable for fastening onto concrete using max. M10 threaded pins (not supplied).

Equipment:

the cabinet is supplied with 9W-230V fluorescent lighting, power supply and G23 lampholder (bulb not supplied). Water taps (to fit) with 1/2" female coupling and hose connection.



B-SMART SERIES Turrent for stainless steel wharf-end AISI 316L prepared for protection devices Class II - >> IK10 IP56

No. modules EN50022	Dimensions (mm)	Palazzoli code	Pack Q.ty
36 (12x3)	360x895x276	576800	1

Characteristics:

the protection devices can be mounted on EN50022 rail in 3 separate watertight insulating enclosures. The input and output of the power supply lines can be made from below. Suitable for fastening onto concrete using max. M10 threaded pins (not supplied).

Application:

it can be used as a control board (e.g. for lighting and watering) in gardens, parks or squares.

FLOOR-STANDING TURRETS



B-SMART SERIES Stainless steel standard turrets AISI 316L for camp sites with 4 industrial socket-outlets Class II - >> IK10 - IP56

Industrial socket-outlets 2P+≑ 220V	Dimensions (mm)	Palazzoli code	Pack Q.ty
4x16A	360x895x276	576401	1

Characteristics:

3P+N+± 35 mm² power supply terminal block, 2P 6 mm² lighting circuit terminal block. Switch compartment door with triangular safety lock. Antiwrench device for cables. Suitable for fastening onto concrete using max. M10 threaded pins (not supplied).

Equipment:

the cabinet is supplied with 9W-230V fluorescent lighting, power supply and G23 lampholder (bulb not supplied).



B-SMART SERIES Stainless steel standard turrets AISI 316L for camp sites with 4 interlocked socket-outlets Class II - >> IK10 - IP56

Industrial socket-outlets 2P+≑ 220V	Dimensions (mm)	Palazzoli code	Pack Q.ty
4x16A	360x895x276	576400	1

Characteristics:

3P+N+± 35 mm² power supply terminal block, 2P 6 mm² lighting circuit terminal block. Switch compartment door with triangular safety lock. Antiwrench device for cables. Suitable for fastening onto concrete using max. M10 threaded pins

(not supplied). **Equipment:**

the cabinet is supplied with 9W-230V fluorescent lighting, power supply and G23 lampholder (bulb not supplied).



B-SMART SERIES Fire prevention turrets in stainless steel AISI 316L for an extinguisher Class II - IP56

Housable	Dimensions	Palazzoli	Pack
extinguisher	(mm)	code	Q.ty
1 6 or 9 kg extinguisher	360x895x276	576600	1

Characteristics:

flat breakable glass with "SAFE CRASH" patent. the cabinet is supplied with 9W-230V fluorescent lighting, red diffuser and G23 lampholder (bulb not supplied) Suitable for fastening onto concrete using max. M10 threaded pins (not supplied).



B-SMART SERIES Stainless steel fire prevention turret AISI 316L equipped with fire hose and nozzle Class II - IP56

Equipment	Dimensions	Palazzoli	Pack
	(mm)	code	Q.ty
Fire hose and nozzle	360x895x276	576601	1

Characteristics:

20m "gomel" fire hose, 45mm diameter. AWG UNI45 nozzle with 3 effects complete with 1"1/2 UNI45 brass tap. Flat breakable glass with "SAFE CRASH" patent. The cabinet is supplied with 9W-230V fluorescent lighting, red diffuser and G23 lampholder (bulb not supplied) Suitable for fastening onto concrete using max. M10 threaded pins (not supplied).

PLUGS, SOCKET-OUTLETS, **INDUSTRIAL DISTRIBUTION BOARDS AND TURRETS**



B-SMART SERIES Base for turret rising **B-SMART**



For turret	Application	Material	Palazzoli code	Pack Q.ty
Compact	Rising 65 mm and	Stainless steel	575701	1
Standard	earth flush-mounted		575702	1



B-SMART SERIES Flat breakable "SAFE CRASH" glass for fire prevention cabinets.

Description	Palazzoli code	Pack Q.ty
flat breakable glass with "SAFE CRASH" patent	575706	1





Description	For turret	Palazzoli code	Pack Q.ty
Stainless steel frame	compact	575711	1
with fixing screws			
Stainless steel frame	standard	575710	1
with fixing screws			



B-SMART SERIES Lock kit for distribution cabinet doors for wharfs and camp sites

Description	Palazzoli code	Pack Q.ty
Kit with 2 keys with standardised code	575708	1

Watertight junction boxes





PH 124 In thermoplastic material IP65



TAIS-MIGNON 124 In thermosetting (GRP) material IP65



TAIS In thermosetting (GRP) material IP67126 In thermosetting (GRP) material IP68126



NAVE 239 In brass and GRP material IP66/67



ALUPRES 127 Heavy-duty use in aluminium IP55/IP67

N	AVE seri	es
PRODU	CT SPECIFIC	CATIONS
Conformity to standards:	specific UNAV stand	lards
Protection rating:	IP66/IP67	
Impact resistance:	> IK 10	
Temperature	Operating:	-40°C - +70°C
resistance:	Storage:	-50°C - +80°C
Casing:	thermosetting (GRP) / Polished brass
	Painted brass	



NAVE SERIES Watertight UNAV 2181 junction boxes with blind walls, with terminal block, in thermosetting (GRP) material IP67

External dimensions (mm)	Terminal blocks	Palazzoli code	Pack Q.ty
92x92x100	4x6 mm²	115200	1
125x92x100	2 4x6 mm² lines	115201	1
125x92x42	2 4x6 mm² lines	115202	1



NAVE SERIES Watertight UNAV 1398 junction box in brass painted marine grey, with terminal block and UNAV 1948 cable glands IP66

Internal diameter (mm)	Terminal blocks	No. cable glands	Palazzoli code	Pack Q.ty
70	4x6 mm²	2 opposite	115125	1
70	4x6 mm²	3 opposite	115135	1
70	4x6 mm²	4 opposite	115145	1

Equipment:

M24x1.5 brass cable glands with gasket.

Earth screws inside and outside the box

Characteristics:

terminal block with mantle terminals.

Complementary items:

M24x1.5 cable glands on page 255.



NAVE SERIES

Watertight UNAV 2161 junction boxes in brass painted marine grey, with double opposite entry points, together with terminal block and UNAV 1948 cable glands IP66

Internal diameter (mm)	Terminal blocks	No. cable glands	Palazzoli code	Pack Q.ty
62	4x6 mm²	2 opposite + 2 caps	115628	1
62	4x6 mm²	3 opposite + 1 cap	115638	1
62	4x6 mm²	4 opposite	115648	1

Equipment:

M24x1.5 brass cable glands with gasket. Earth screws inside and outside the box

Characteristics:

terminal block with mantle terminals.

Complementary items:

M24x1.5 cable glands on page 255.



NAUTILUX SERIES

UNAV 1398 watertight junction box in solid brass with terminal block IP66

Internal diameter (mm)	Terminal blocks ca	No. ble gland	Cable glands is	Palazzoli code	Pack N.
70	4x6 mm²	2	24x14 UNAV1948 M24x1.5	861551	1

Equipment:

with 2 brass cable glands.

Complementary items:

M24x1.5 cable glands on page 255.

Small devices in modular enclosures





domoTER 174 With thermoplastic enclosure



NAVE 242 With brass enclosure IP66



TAIS MIGNON 180 With thermosetting (GRP) enclosure



RONDÓ 189 With aluminium alloy enclosure



TAIS MIGNON 185 Panel-mounted thermosetting (GRP) enclosure





NAVE series Corrosion Immunity

Watertight devices for marine use

No cracks

TECHNIQUE

The NAVE SERIES plugs and socket-outlets are designed for the specific system requirements for use on board container ships and ferries, in warehouses for container transit and shipping and in maritime terminals. The enclosures are made of die-cast brass, oven-painted in marine grey. The cover and internal/external floor fixing screws are made of stainless steel. The cam control switch is equipped with contact holding disks in self-extinguishing anti-arc insulating thermosetting (GRP) material and double break contacts in special silver alloy. The plug has bayonet connection for plug watertight locking. The ring nut and the protection cover are made of self-extinguishing insulating materials, held back by a stainless steel chain. The insulating contact holding part is in thermosetting (GRP) material and the socket contacts are made of nickel-plated

brass. The plug has the grip and ring nut in die-cast brass and nickel coated brass pins. The UNAV connections are ideal for cables with minimum section of 2.5 and maximum section of 10mmq. All the equipment is only made of watertight material (IPX5 for below board or covered applications and IP56 for use on the open deck since it is subject to the risk of flooding). It generally complies with the UNAV naval standardisation tables.

Trademarks, symbols, awards



THE ADVANTAGES



WEAR-RESISTANT

The brass used by Palazzoli performs very well in sea water and it is ideal for dezincification and corrosion problems.



HARDER AND MORE RESISTANT

The mechanical structure, thicknesses used and compact dimensions make the NAVE series extremely solid and resistant to accidental impacts (>> IK10). The IP56 protection rating guarantees they are water, dust and pollution proof.



SCRATCH RESISTANT

The NAVE series are subject to a scratch resistant treatment which makes it more durable against abrasion.

SMALL DEVICES FOR CONTROLLING, ENERGY USING, **AND SIGNALLING**

NAVE series					
PRODUCT SPECIFICATIONS					
Conformity to standards:	specific UNAV standards				
Protection rating:	IP66 / IP67S				
Impact resistance:	> IK 10				
Temperature	Operating:	-40°C - +70°C			
resistance:	Storage:	-50°C - +80°C			
Casing:	Polished and painted solid	brass			



NAVE SERIES Watertight UNAV 2162 rotary switches in brass enclosure painted marine grey, together with UNAV 1948 cable glands 250V IP66

Rated current (A)	Poles	No. cable glands	Palazzoli code	Pack Q.ty
10	_1	1	232616	1
	_1	2 combined	232626	1
	1	2 opposite	232636	1
	2	2 combined	232627	1
	2	2 opposite	232637	1

Equipment:

with M24x1.5 brass cable glands. Earth screws inside and outside the box.



NAVE SERIES Watertight UNAV 2162 two-way switches in brass enclosure painted marine grey, together with UNAV 1948 cable glands 250V - IP66

Rated current (A)	Poles	No. cable glands	Palazzoli code	Pack Q.ty
10	2	2 combined	232628	1

Equipment:

with M24x1.5 brass cable glands. Earth screws inside and outside the box.



NAUTILUX SERIES UNAV 2162 watertight rotary control switch in solid brass enclosure 250V - IP66

Rated current (A)	Poles	No. able gland	Cable glands ds	Palazzoli code	Pack Q.ty
10	1	1	24x14 UNAV1948 M24x1,5	861550	1

Equipment:

with brass cable gland.





NAVE SERIES Watertight UNAV 2166 wallmounted socket-outlets in brass enclosure painted marine grey, with UNAV 1948 cable glands 250V - IP66

6	478213	1
9	478313	1
6	478323	1
	9	9 478313

Equipment:

brass M24x1.5 cable gland.

Characteristics:

contact holder insert in thermosetting (GRP) self-extinguishing material.

Complementary items:

straight plugs on page 25,

 90° angled plugs on page 27.



NAVE SERIES Watertight UNAV 1435 socketoutlets in brass enclosure painted marine grey, with UNAV 1948 cable glands 250V - IP66

Rated current (A)	Rated voltage	Poles	No. cable glands	Palazzoli code	Pack Q.ty
10	24V~	2P+ <u>÷</u>	1	461121	1
	127V~	2P+ ÷	1	461151	1
	230V~	2P+ <u>÷</u>	1	461131	1

Equipment:

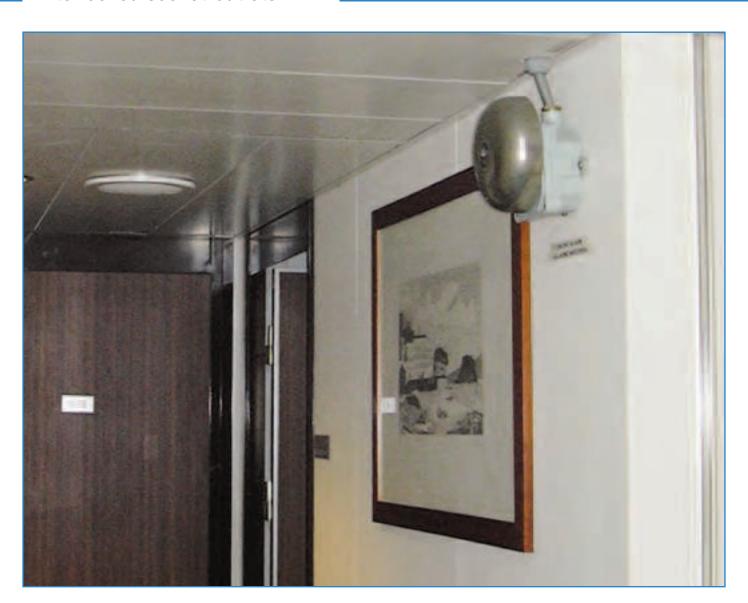
brass M24x1.5 cable gland. Earth screws inside and outside the box.



NAVE SERIES Watertight UNAV 1437 plugs with ring-nut and rubber protection sleeve iP56

Rated current (A)	Rated voltage	Poles	Palazzoli code	Pack Q.ty
10	24V~	2P+÷	467021	10
	127V~	2P+ ÷	467051	10
	230V~	2P+ <u>÷</u>	467031	10

Interlocked socket-outlets





NAVE 245 Brass sirens



NAVE 245 Brass bells

NAVE series				
PRODUCT SPECIFICATIONS				
Conformity to standards:	CEI EN 60529 UNAV 1948 / UNAV 1382	IEC 60529		
Protection rating:	IP66			
Impact resistance:	> IK 10			
Temperature	Operating:	-40°C - +70°C		
resistance:	Storage:	-50°C - +80°C		



NAVE SERIES Watertight UNAV 1382 bells for signalling and alarm in brass enclosure painted marine grey, with UNAV 1948 cable gland IP66 250V - IP66

Rated voltage	Frequency	1 metre sound level (dB)	Power (VA)	Cable glands	Palazzoli code	Pack Q.ty
24V~	50/60Hz	107/105	60VA initial	1x	900553	1
			vibrating 25VA	M24x1,5		
110V~	50/60Hz	107/105	60VA initial	1x	900563	1
			vibrating 25VA	M24x1,5		
230V~	50/60Hz	107/105	60VA initial	1x	900573	1
			vibrating 25VA	M24x1,5		

Equipment:

cable gland with gasket, terminal block in insulating thermosetting (GRP) material.

Characteristics:

with vibrating diaphragm, they are suitable for continuous and with 1 hour pause every 4 hours operation Earth screws inside and outside the box



NAVE SERIES Directional horn for UNAV 1382 sirens in brass painted marine grey

Diameter max (mm)	Projection siren+horn (mm)	Palazzoli code	Pack Q.ty
112	238	900548	1

Equipment:

inclusive of stainless steel fixing screws.



NAVE SERIES
Watertight UNAV 1384 bells for signalling and alarm in brass enclosure painted marine grey, with UNAV 1948 cable gland -

Rated voltage	Drum diameter (mm)	1 metre sound level (dB)	Power (VA)	Cable glands	Palazzoli code	Pack Q.ty
24V~	105	101	initial 13VA 11VA	1x	900355	1
			vibrating	M24x1,5		
110V~	105	101	initial 13VA 11VA	1x	900365	1
			vibrating	M24x1,5		
230V~	105	101	initial 13VA 11VA	1x	900375	1
			vibrating	M24x1,5		

Equipment:

cable gland with gasket, terminal block in thermosetting (GRP) material. **Characteristics:**

these are suitable for continuous or extended operation. Earth screws inside and outside the box.

Spare parts

Product specification

LIGHTING FIXTURES

The products and recommended applications



Lighting fixtures and luminaires





RINO 249

Painted stainless steel lighting fixtures for outdoors



RINO 249

Painted galvanised steel lighting fixtures for indoors



NAVE 252

UNAV lighting fixtures



RINO

Oval and round aluminium lighting fixtures



NAVE

Watertight lighting fixture



RINO

Watertight portable lighting fixture

254

255

256



RINO Series Stainless

Stainless and painted galvanised steel lighting fixtures AISI 316



TECHNIQUE

The RINO marine fixture is designed to be an excellent product according to the type of boats to be illuminated. In fact there are versions available for external use with stainless steel body AISI 316L white painted and polycarbonate opaline white diffuser, for internal use with body in white painted galvanised steel and transparent polycarbonate diffuser and for bulkhead with pair of connections. The electrifications available range from versions with a low-leakage electromagnetic power supply to an electronic power supply and the version for emergencies. They answer the highest quality standards guaranteeing reliability and superior performance, such as, for example,

the production of a single shaped body with high photometric. All lighting fixtures are designed in compliance with IEC EN60598-1 and IEC EN60598-2-1 Standards.

Trademarks, symbols, awards





THE ADVANTAGES



NO WELDING

Folded cut inserts which works as a substitution of weldings, guarantees the stainless quality of the product as well as the very high durability over time.



SAFE

The marine fixtures are equipped with stainless steel fixing pins with preassembled anti-vibration systems. The bolts are in stainless steel and guarantee perfect seal and maximum impact resistance.



ELEVATED BRIGHTNESS

The special setting of the RINO MARINE series lens guarantees enough lighting to reduce the number of lighting fixtures and save in terms of energy consumption.

RINO series				
PRODU	CT SPECIFICATI	ONS		
Conformity to standards:	CEI EN 60598-1			
	CEI EN 60598-2-1	CEI 34-23		
Protection rating:	IP65			
Impact resistance:	> IK 10			
Temperature	Operating: -15°C - +50°C			
resistance:	Storage: -40°C - +70°C			
Casing:	Stainless Steel AISI 316L painted			
	Painted glavanised steel			
Diffuser:	Tempered glass / shockproof polycarbonate			
Lampholder:	G13 / G5			
Homologations:	R.I.NA			



RINO SERIES Stainless steel painted fixtures and opaline polycarbonate diffuser for ceilings 230V -60 Hz - IP65



Power (W)	Power supply	Lampholders and lamps	Palazzoli code	Pack Q.ty
2x18	Electromagnetic	G13 T8	878102	1
2x36	Electromagnetic	G13 T8	878202	1
2x18	Electronic 230VAC/DC	G13 T8	878132	1
2x36	Electronic 230VAC/DC	G13 T8	878232	1
(1+1)x18	Emergency	G13 T8	878111	1
(1+1)x36	Emergency	G13 T8	878211	1

Characteristics: versions with electromagnetic power supply with p.f. correction capacitor.

Equipment: No. 2 2P

± terminal blocks for power supply entry/output. No. 2 M20 nickel-plated brass cable glands. No. 2 M20 caps in nickelplated brass Kit for ceiling fixing with screw and M8 bolt.

On request: supplementary external earth connection with M6 bolt.



RINO SERIES Stainless steel painted fixtures and opaline polycarbonate diffuser for bulkhead 230V -60 Hz - IP65

Power Power supply (W)		Lampholders and lamps	Palazzoli code	Pack Q.ty
2x18 Electromagnetic		G13 T8	881102	1
2x18	Electronic 230VAC/DC	G13 T8	881132	1

Characteristics: version with electromagnetic power supply with p.f. correction capacitor. Prepared for bulkhead connections.

Equipment: No. 2 2P++ terminal blocks for power supply entry/output. On request: supplementary external earth connection with M6 bolt Complementary items: bulkhead connections code 820007.



RINO SERIES Pair of bulkhead connections for external light fixtures

Fixtures	Palazzoli code	Pack Q.ty
For external bulkhead fixtures code 881102 and 881132	820007	1



RINO SERIES Galvanised painted-glass lighting fixtures - polycarbonate with white reflector 230V -60 Hz - **IP65**



Power (W)	Power supply	Lampholders and lamps	Palazzoli code	Pack Q.ty
2x18	Electromagnetic	G13 T8	849102	1
2x36	Electromagnetic	G13 T8	849202	1
2x18	Electronic 230VAC/DC	G13 T8	849132	1
2x36	Electronic 230VAC/DC	G13 T8	849232	1
(1+1)x18	Emergency	G13 T8	849111	1
(1+1)x36	Emergency	G13 T8	849211	1



NAVE series **Corrosion Immunity**

UNAV standards lighting fixtures



No cracks

TECHNIQUE

The NAVE SERIES marine lighting equipment reflects the past and future, combining aesthetics with functionality, and performance with style, with all the technological precision required by today's nautical standards. Brass is an elegant choice which is also resistant to corrosive agents in salty atmsopheres or traffic and industrial pollution. The E27 lampholders are made of porcelain, which offers higher insulation and resistance to heat and tracking than the highest quality synthetic resins. The various fittings are small but highly effective. For example, the non-ageing elastomer gaskets, stainless steel screws and machining have been made with the highest precision.

Trademarks, symbols, awards



THE ADVANTAGES



SUPER-RESISTANT

Characterised by a reinforced structure with even thicker walls, they are ideal in cases of extreme stress/vibrations (engine rooms) and also ensure high impact resistance.



ETERNAL

All the components of the NAVE series are made of non-magnetic material with very high resistance to oxidation, such as die-cast solid brass, stainless steel, which ensures durability.



EASIER MAINTENANCE

Thanks to IP66 protection and the glass diffuser, periodical maintenance consists of simply cleaning the outer covering of brass and glass diffuser with a damp cloth or even water jets.

NAVE / RINO series					
PRODUCT SPECIFICATIONS					
Conformity to standards:	specific UNAV standards				
Protection rating:	IP66				
Impact resistance: > IK 10					
Temperature	Operating:	-40°C - +70°C			
resistance:	Storage:	-50°C - +80°C			
Casing:	Painted solid brass				
Diffuser:	Pyrex type prismatized glass				
Lampholder:	E27 in porcelain				



NAVE SERIES

Housings in brass painted marine grey, with globe-holder rings for combinations of watertight UNAV 2134-1796 cylindrical lighting fixtures 250V - IP66

Lamp max. wattage (W)	Lampholde	r No. cable glands	Cable glands	Palazzoli code	Pack Q.ty
60	E27	1	24x14 UNAV1948 M24x1,5	815141	1
60	E27	2 opposite	24x14 UNAV1948 M24x1,5	815151	1
60	E27	2 combined	24x14 UNAV1948 M24x1,5	815161	1
60	E27	2 combined	3/4" Bulkhead feedthrough fitting	815181	1

Equipment: brass cable glands with gaskets.

Internal and external earth screws.

Characteristics: The item 815181 is UNAV 1796 type.



NAVE SERIES

UNAV 1268 diffusers in smooth coloured glass for watertight cylindrical lighting fixtures

Lighting fixture max power	Colour	Palazzoli code	Pack Q.ty
60W	Transparent	850060	1
60W	Blue	850061	1
60W	Yellow	850062	1
60W	Red	850063	1
60W	Green	850064	1



RINO SERIES

Protection cage in stainless steel wire for watertight cylindrical lighting fixtures

Lighting fixture max power	Palazzoli code	Pack Q.ty
60W	819022	1
100W	850172	1



RINO SERIES

Reflectors in heat treated painted galvanized steel for watertight cylindrical lighting fixtures

Lighting fixture max power	Colour	Palazzoli code	Pack Q.ty
60W	White	819030	5
100W	White	819130	5
200W	White	819230	5



RINO SERIES

Shade in oven-painted galvanized steel, for directing light output from watertight cylindrical lighting fixtures

Lighting fixture max power	Colour	Palazzoli code	Pack Q.ty
60W	Aluminium	819035	1
100W	Aluminium	819135	1
200W	Aluminium	819235	1



NAVE SERIES

Swann type bayonet lampholder with tabs for watertight cylindrical lighting fixtures

Туре	Lampholder material	Palazzoli code	Pack Q.ty	
B22d 4A 250V	Brass	859400	1	

NAVE SERIES UNAV 2133 cylindrical watertight lighting fixtures in brass brass marine grey 250V - IP66



NAVE SERIES UNAV 1268 diffusers in smooth coloured glass for watertight cylindrical lighting fixtures

Lamp Lampholder No. max. porta cable wattage (W) glands		cable	Cable glands	Palazzoli code	Pack Q.ty
60	E27 2	combined	3/4" Bulkhead	850054	1
			feedthrough fitting		

Equipment:

brass cable glands with gasket. Internal and external earth screws. **Characteristics:**

cylindrical diffuser in smooth transparent glass.

Lighting fixture max. wattage	Colour	Palazzoli code	Pack Q.ty
60W	Transparent	850060	1
60W	Blue	850061	1
60W	Yellow	850062	1
60W	Red	850063	1
60W	Green	850064	1



NAVE SERIES

Housings in brass painted marine grey, for combinations of watertight UNAV 2133 cylindrical lighting fixtures - IP66



NAVE SERIES Globe-holder ring in nickel-plated brass for UNAV 2133 watertight cylindrical lighting fixtures

Lamp max. wattage (W)	Lampholde porta	er No. cable glands	Cable glands	Palazzoli code	Pack Q.ty
60	E27	1	24x14 UNAV1948 M24x1,5	850042	1
60	E27	2 opposite	24x14 UNAV1948 M24x1,5	850045	1
60	E27	2 combined	3/4" Bulkhead	850065	1
			feedthrough fitting		

Equipment:

brass cable glands with gasket. Internal and external earth screws.





NAVE SERIES Globe-holder ring in nickel-plated brass with stainless steel cage for UNAV 2133 watertight cylindrical lighting fixtures

Lighting fixture max. wattage	Palazzoli code	Pack Q.ty
60W	850058	1

Pack Q.ty



NAVE SERIES UNAV 2132 cylindrical watertight lighting fixtures in painted brass marine grey 250V - IP66



Type

A UNAV 1228

NAVE SERIES Base in tropicalized steel for ceiling installation of UNAV 2132, 2133 and 2134 watertight cylindrical lighting fixtures

Lamp max. wattage (W	Lampholder	No. cable glands	Cable glands	Palazzoli code	Pack Q.ty
100	E27	1	24x14 UNAV1948 M24x1,5	850140	1
100	E27 2	2 opposite	24x14 UNAV1948 M24x1,5	850143	1

Equipment:

brass cable glands with gasket. Internal and external earth screws. Characteristics:

cylindrical diffuser in smooth transparent glass.



NAVE SERIES
Wall-mounting installation base in
tropicalized steel for watertight
UNAV 2132, 2133 and 2134
cylindrical lighting fixtures



RINO SERIES Protection cage in stainless steel wire for watertight cylindrical lighting fixtures

Lighting fixture max. wattage	Palazzoli code	Pack Q.ty
60W	819022	1
100W	850172	1

Туре	Palazzoli code	Pack Q.ty
B UNAV 1228	850091	1

Palazzoli code

850090

NAVE SERIES Oval watertight lighting fixtures in brass painted marine grey with glass diffuser, type UNAV 2135 250V - IP66

Lamp max. wattage (V	Lampholder /)	No. cable glands	Cable glands	Palazzoli code	Pack Q.ty
60	E27	1	24x14 UNAV1948 M24x1,5	831069	1
60	E27	2	24x14 UNAV1948 M24x1,5	831089	1
100	E27	1	24x14 UNAV1948 M24x1,5	831109	1
100	E27	2	24x14 UNAV1948 M24x1,5	831189	1
200	E27	1	24x14 UNAV1948 M24x1,5	831209	1
200	E27	2	24x14 UNAV1948 M24x1,5	831289	1

Equipment: M24x1.5 brass cable glands with gasket.

Internal and external earth screws.

Characteristics: diffuser in ribbed prismatic glass.



NAVE SERIES Cage in stainless steel wire for oval lighting fixtures type UNAV 2135

Lighting fixtures max wattage	Palazzoli code	Pack Q.ty
60W	831527	1
100W	831627	1
200W	831727	1



NAVE SERIES Swann B22d type bayonet lampholders with bracket for oval and round lighting fixtures

Туре	Lampholder	Palazzoli	Pack
	material	code	Q.ty
B22d 4A 250V	Brass	859412	1

Equipment: installation bracket.

Pack Q.ty

10





NAVE SERIES Watertight large lighting fixtures type UNAV 2139 brass painted marine grey 250V - IP66



Туре

B2 24 UNAV 1948 - M24x1,5

supplied without washers and gasket.

Characteristics:

NAVE SERIES Brass cable glands including sleeve coupling, type UNAV 1948

Palazzoli code

585410

Lamp max. wattage (W)	Lampholder	Cable glands	Palazzoli code	Pack Q.ty
3x100	3xE27	24x14 UNAV1948 M24x1,5	850300	1

Equipment:

M24x1.5 brass cable gland with gasket. Internal and external earth screws.

Characteristics:

globe-holder ring with hinge. Transparent glass diffuser.



NAVE SERIES Watertight large lighting fixture type UNAV 2139 brass painted marine grey, including tropicalized steel cage 250V - IP66

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NAVE SERIES Brass bush for earthing the cable reinforcement, type UNAV 1949 IP66

Lamp max. wattage (W)	Lampholder	Cable gland	Palazzoli code	Pack Q.ty
3x100	3xE27	24x14 UNAV1948 M24x1,5	850301	1

Equipment:

M24x1.5 brass cable gland with gasket.

Internal and external earth screws.

Characteristics:

globe-holder ring with hinge. Transparent glass diffuser.



NAVE SERIES Sprung installation base for UNAV 2139 large lighting fixtures

Туре	Palazzoli code	Pack Q.ty
UNAV 1230 for 1/2" gas conduit	850391	1

for pendant installation with 1/2" gas steel conduit.

Internal diameter (mm)	Туре	Palazzoli code	Pack Q.ty
8	B2 24 UNAV 1949	585316	10
9	B2 24 UNAV 1949	585317	10
10,5	B2 24 UNAV 1949	585318	10
13	B2 24 UNAV 1949	585319	10

Characteristics:

supplied without washers and gasket.



NAVE SERIES Brass cable gland type: **UNAV 1062**

Туре	Palazzoli code	Pack Q.ty
24 UNAV 1062	585480	10

Characteristics:

supplied without washers and gasket.

LIGHTING FIXTURES



NAVE SERIES Brass washers with gasket in non-ageing elastomer

Internal diameter (mm)	Palazzoli code	Pack Q.ty
8	585406	10
9	585407	10
10	585408	10
11	585409	10
12	585411	10
13	585412	10
14	585413	10
15	585414	10
16	585415	10
17	585416	10



NAVE SERIES Brass screwcap with gasket

Thread	Palazzoli code	Pack Q.ty
M24x1,5	585490	10



NAVE SERIES Portable watertight lighting fixture, UNAV 2137 type in thermosetting (GRP) material, with stainless steel protection cage 250V - IP65

Lamp max. wattage (W)	Lampholder	Palazzoli code	Pack Q.ty
60	E27	814052	1

Equipment: cable entry with 1 1/2" gas cable gland and internal cable clamp. Characteristics: diffuser in ribbed clear glass. Porcelain lampholder.

