MARINE INTERNATIONAL PTE LTD



QUALITY MARINE EQUIPMENT SINCE 1970

VOL. 3

MARINE INTERNATIONAL PTE LTD

Marine International Pte Ltd has over 50 years of experience in delivering solutions for quality marine equipment and industrial products. The experience and competence we have built over the years translate into high value for our customers and partners. We are dedicated to satisfying our customers by striving to exceed their expectations in affordability, quality and on-time delivery.

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SAFETY

Lamda, Inflatable Lifejacket, SOLAS

- Certified per SOLAS, for ultimate safety while on board

- Certified according to the specifications of the HSE Compatibility Test Protocol for Lifejackets and Immersion suits on Offshore installations (when combined with LALIZAS Immersion suit with rubber gloves)

- Ideal for use on commercial vessels, offshore platforms, and mega yachts (based on the product code you will choose)

- Twin chambers as per SOLAS requirements

- Lamda 330N goes above and beyond the standard regulations of 275N

- It is the only SOLAS lifejacket in its category with two stainless steel buckles, on the center and side of the waist harness, to be easily removed even inflated, when needed & features a crotch strap

- Available in one adult size, which can be easily adjusted to passengers with chest sizes up to 175cm or more, with the use of the LALIZAS Waist Belt Extender (71161)

150N



CODE	DESCRIPTION
71107	LALIZAS Inflatable Lifejacket Lamda, Auto, 150N, SOLAS/MED
71216	LALIZAS Inflatable Lifejacket Lamda, Auto, 275N, SOLAS/MED
72114	LALIZAS Infl.Lifejacket Adv. Lamda, Auto, 330N, w/Crotch Strap, SOLAS/MED
72115	LALIZAS Infl.Lifejacket Adv.Lamda,Auto,330N,w/Sprayhood&Crotch Strap,SOLAS/MED

Sigma Inflatable Lifejacket 170N, ISO 12402-3

- Certified per ISO 12402-3

- Auto & manual version

- Comfortable to wear & user-friendly due to its ultra-lightweight design and webbing system

- Transparent area allows the user to check the function of the operating head

- Ultra reliable auto-firing mechanism which is specially designed not to be unintentionally activated due to heavy weather

- Commercial heavy-duty protective outer cover

- Easy re-packing

- CE



CODE	COLOUR	ACTIVATION	PLASTIC BUCKLE	D-RING / HARNESS	ZIPPER	CROTCH STRAP	FIRING MECHANISM	TYPE	SIZE
71094	Red	Automatic	-	Yes	-	-	LALIZAS JS1	Lifejacket	Adult
71096	Red	Automatic	-	-	-	-	LALIZAS JS1	Lifejacket	Adult
71097	Red	Manual	-	-	-	-	LALIZAS JS1	Lifejacket	Adult
72081	Black	Automatic	-	Yes	-	Yes	LALIZAS JS1	Lifejacket	Adult
720811	Blue	Automatic	-	Yes	-	Yes	Hammar MA1	Lifejacket	Adult
72154	Orange	Automatic	-	-	-	-	LALIZAS JS1	Work Vest	Adult
72560	Red	Automatic	Yes	-	-	-	LALIZAS JS1	Lifejacket	Adult
725601	Black	Automatic	Yes	-	-	-	LALIZAS JS1	Lifejacket	Adult
72561	Red	Automatic	Yes	Yes	Yes	Yes	LALIZAS JS1	Lifejacket	Adult
725611	Black	Automatic	Yes	Yes	Yes	Yes	LALIZAS JS1	Lifejacket	Adult

Omega Inflatable Lifejacket 290N, ISO 12402-2

- Certified per ISO 12402-2

- Certified per ISO 12401 on all integral black harnesses

- Slim fit, lightweight, with rugged constructions

- Coming in two codes, one with harness and one without harness

- Ultra-reliable firing mechanism

- Commercial heavy-duty protective outer cover

- Easy re-packing

- CE



CODE	DESCRIPTION
71103	Omega Infl.Lifejacket, Auto, 290N, w/Harness, ISO, Adult
71105	Omega Infl.Lifejacket, Auto, 290N, ISO, Adult

LALIZAS Manual Re-arm Kit for Adult Lifejacket, 33gr

CODE	DESCRIPTION
71323	LALIZAS Manual re-arm kit for adult lifejacket, 33gr



Buoyancy Aid, Easy Rider 50N, ISO 12402-5

- Ideal for ski & jet ski

- It covers the waist and back, while it remains comfortable

- It includes one fixed and one adjustable webbing fastener and SOLAS

- Retroreflective Tapes (70180)

- Approved to the European standards for 50N buoyancy aids, ISO 12402-5

- All of its raw materials are tested per ISO 12402-7 and ISO 12402-8, for higher strength, quality and durability

- Available in 2 sizes, in orange & yellow colour combination

- CE



CODE	WEIGHT (KG)	CHEST SIZE (CM)
71089	25 - 40 kg	65-80
71090	>40 kg	80-130

Advanced Lifejacket SOLAS-(LSA Code) 2010

- Manufactured to equip all commercial vessels under SOLAS/MED

- Provided with lifting loop and orange buddy line for easier rescue

- Supplied in adult and child sizes

- The adult lifejacket is appropriate for passengers with chest size up to 175cm and overweight passengers

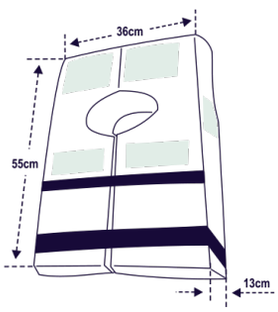
- Recommended to combine the lifejacket with the compatible LALIZAS Lifejacket LED Flashing Light

- Required on board all EU flagged vessels as per regulations

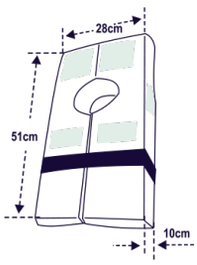
CODE	DESCRIPTION	WEIGHT (KG)
70177	LALIZAS Foam Lifejacket Advanced, SOLAS/MED, Child	15 - 43 Kg
70178	LALIZAS Foam Lifejacket Advanced, SOLAS/MED, Adult	>43 Kg



Adult



Child

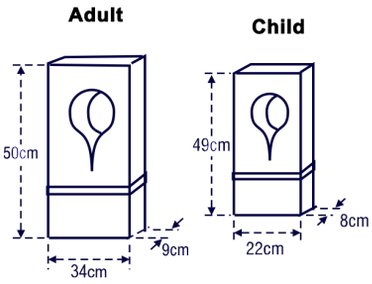


SOLAS Lifejacket (L.S.A Code)

The SOLAS Lifejacket (L.S.A Code) is primarily suitable for the commercial market. Available in child and adult sizes, with or without light.

CODE	BUOYANCY (NT)	WEIGHT (KG)
70167	94	15 - 41 kg
70169	150	>32 kg



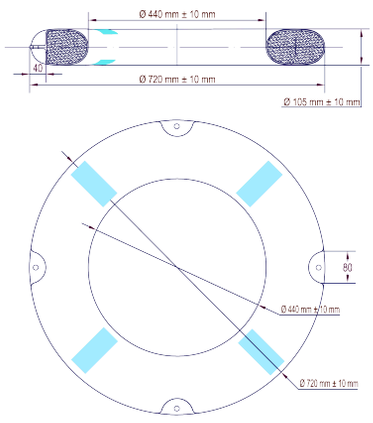


LALIZAS Lifebuoy Ring SOLAS, with Reflective Tape

Designed for pleasure and commercial usage, features an orange, hard, cross-linked polyethylene outer shell that will not deteriorate and is unaffected by extreme weather conditions.

For better effectiveness, combine the Lifebuoy Ring with the Floating Line (70260) and the SOLAS Lifebuoy Light (70030 / 71325-6 / 196482).





CODE	WEIGHT (KG)	DROP HEIGHT (M)	BUOYANCY (NT)	EXT. DIAMETER	INT. DIAMETER	HEIGHT	LIFEBUOY SHELL / INTERNAL MATERIAL	GRAB LINE DIAMETER (MM)	GRAB LINE MATERIAL	HIGHLY VISIBLE COLOUR	STORAGE TEMP.	RESISTENT TO FLAME AND TO DIESEL OIL	TESTED FOR OPERATION WITH LIGHT & SMOKE SIGNAL	APPROVAL
70090	2.5 kg (5,51lb)	80	≥ 145 Nt	720 mm ±10 mm	440 mm ±10 mm	105 mm ±10 mm	HDPE / PU Foam	9,5	PE	YES	-30°C up to + 65°C	YES	-	SOLAS/MED
700901	2.5 kg (5,51lb)	80	≥ 145 Nt	720 mm ±10 mm	440 mm ±10 mm	105 mm ±10 mm	HDPE / PU Foam	11	PE	YES	-30°C up to + 65°C	YES	-	USCG SOLAS
70110	4 kg (8,81lb)	80	≥ 145 Nt	720 mm ±10 mm	440 mm ±10 mm	105 mm ±10 mm	HDPE / PU Foam	9,5	PE	YES	-30°C up to + 65°C	YES	YES	SOLAS/MED
701101	4 kg (8,81lb)	80	≥ 145 Nt	720 mm ±10 mm	440 mm ±10 mm	105 mm ±10 mm	HDPE / PU Foam	11	PE	YES	-30°C up to + 65°C	YES	YES	USCG SOLAS

Plastic Holder For Lifebuoy Ring



CODE	DESCRIPTION
01106	Plastic Holder For Lifebuoy Ring
01107	Plastic Holder For Lifebuoy Ring, set of 3 pcs

Mooring Ring with 30m Rope

Designed for the retrieval of MOB, the ring is molded in PVC, weighing only 250gr and it is tied to a 30m floating rope.

Ext. Diam.: 166 mm
Int. Diam.: 110 mm

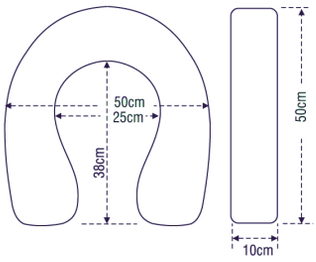


CODE	DESCRIPTION
20693	Mooring Ring with 30m rope

Horseshoe Lifebuoy Basic I

- Offers personal floatation to seafarers in case of man overboard emergency
- Essential equipment for all boats, both yachts and motorboats
- Made of polyethylene foam in a reinforced PVC case with a flexible zipper and plastic fastening clip
- Simple to use
- Three different colours: white, yellow, and orange



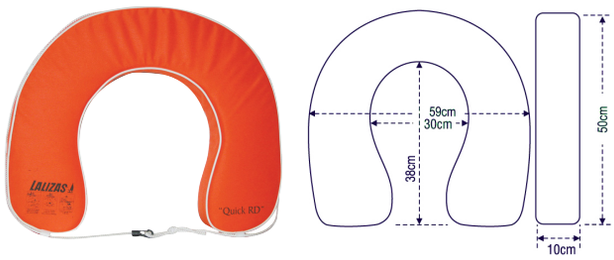


CODE	COLOUR	BUOYANCY (NT)
20530	Orange	140N
20540	White	140N
20550	Yellow	140N

Horseshoe Lifebuoy “Quick RD”, 142N

- Made of polyester with PVC backing
- Waterproof, its fabric doesn’t fade
- Highly resistant to UV radiation
- Features a flexible zipper cover and plastic hook fastening

For storing this lifebuoy:
You can use the Horseshoe Bracket (20580), where the Lifebuoy Light M.O.B (70030) can be also mounted, while the “Quick Fit” Horseshoe Cases (70018 & 70019) are ideal for its storage.



CODE	COLOUR	BUOYANCY (NT)
70162	Yellow	142N
70164	Orange	142N
70165	White	142N

Holder for Lifebuoy Ring/Horseshoe & Lifebuoy Light

- Ideal for placing and storing your lifebuoy ring or horseshoe

- It comes with a plastic holder, which makes it easy to mount it on your boat’s rails

- Made of stainless steel

- Comes with a small elastic stretch cord for keeping the ring or lifebuoy steady on the holder

- You can also store the Lifebuoy light since it features plastic clips on the base of the holder



CODE	DESCRIPTION
95733	Holder for Lifebuoy Ring/Horseshoe & Lifebuoy Light

Lifebuoy Light M.O.B. SOLAS/MED, USCG

LALIZAS offers you optimum visibility at sea with its classic marine product, the Lifebuoy Light M.O.B which complies with SOLAS and is capable of burning continuously with high luminous intensity.

Specifications:
- SOLAS/MED/USCG approved
- Not less than 2cd in all directions of the upper hemisphere for a period of at least 2h (in white colour)
- 4 D-Cell 1.5V alkaline batteries are required (not included in the package).

Always use batteries marked with the Best If Used By (BIUB) date (or Best Before date) and indicating a lifespan of 7 to 10 years. It is essential to mark the Date of Battery.

Replacement to the special space provided on the product in compliance with new MED Directive requirements.

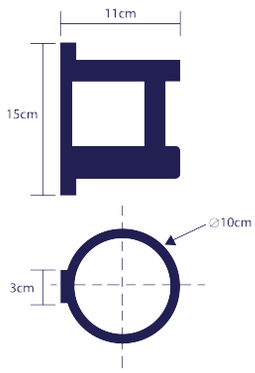


CODE	DESCRIPTION
70030	LALIZAS Lifebuoy light M.O.B SOLAS/MED/USCG

Lifebuoy Light Holder

High-quality black polycarbonate lifebuoy light holder. Designed to hold the light vertically in the ‘off’ position and to provide easy removal in emergencies.





CODE	DESCRIPTION
70000	LALIZAS Lifebuoy light holder

Megaphone w/ Siren, 20W, 400m

- Diameter: 200mm

- Length: 330mm

- Power: 20W

- Sound Coverage: 400m approx.

- Function: Talk/Siren (or Music)

- Batteries: 6x1,5V (size C)

- ABS Housing



CODE	DESCRIPTION	COLOUR
90168	LALIZAS Megaphone w/ Siren, 20W, 400m	Red

Motoring Cones

This signal must be displayed on sailing boats when traveling under power.



CODE	DESCRIPTION
16206	Motoring Cone, 350x340mm, Black
39552	Motoring Cone, 470x330mm, Black

Anchor balls

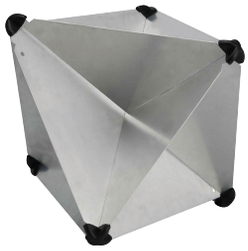
- Internationally recognized daytime signal, used by boats when at anchor
- Made of highly resistant plastic
- Folds easily for storage



CODE	DESCRIPTION
16185	Anchor Ball Ø300mm, Black
39553	Anchor Ball Ø350mm, Black

Radar Reflectors

It is made of light alloy. Provided with head plastic protection. Folding model for easy storage when not required. Packed in a plastic bag.



CODE	DESCRIPTION
35000	Radar Reflector R.O.R.C. 18", 340x340x470mm
97638	Radar Reflector Standard 12" 215x215x300mm
97639	Radar Reflector R.O.R.C. 16" 300x300x415mm

Signal Horn Set - 380ml

The acoustic range is approximately 1500 m.

Instructions :
1. Install the horn by screwing it on the pressurized container
2. To operate press down the horn
3. Signal horn must always be used in an upright position

- Do not store the pressurized container in direct sunlight.
- Do not expose to temperatures exceeding 40o C.
- Do not pierce or burn, even after use.



CODE	DESCRIPTION
10033	Signal horn set - 380ml

Classic LED

The Classic LED series of navigation lights is designed for vessels up to 12m or 20m. Made of tough UV stabilised ABS polycarbonate compound with a shatter-proof acrylic lens, stainless steel electrical contacts, and nitrile water-resistant seal to provide reliable long life. All Classic LEDs are supplied with encapsulated in silicon 12-24V LED bulbs to ensure maximum energy saving, protection against humidity, and a long lifetime of 50.000 hours.

Meets the requirements for :
- COLREG 72
- MSC 253(83)
- EN 14744:2005

Classic LED 12 All-Round Lights 12/24V

All round lights are screw mounted on the mast as high as possible and are connected to the central or auxiliary circuit.

- For boats up to 12 m
- Visible distance: 2 nm
- 12/24V DC & 2 W
- White LED light or tri-colour
- Deck mounted
- Waterproof, non-corrosive, non-magnetic

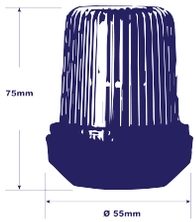


72164

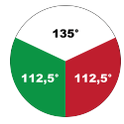


72167

Code	Description	Housing
72164	White	Black
72167	Tri-colour	Black







Classic LED 12
Port-Starboard-Stern-Masthead-Bicolor Light

- For boats up to 12 m
- Visible distance:
- Port - Starboard - Bi-colour: 1 nm
- Stern - Masthead: 2 nm
- 12/24V DC & 2 W
- Side mounted
- Waterproof, non-corrosive, non-magnetic

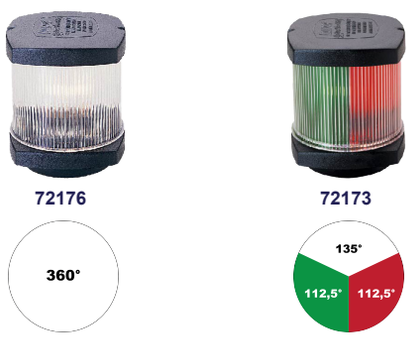
Code	Description	Housing
72168	Starboard Green 112,5°	Black
72169	Port Red 112,5°	Black
72170	Stern White 135°	Black
72171	Masthead White 225°	Black
72172	Bi-colour 225°	Black



Classic LED 20 All-Round Lights 12/24V

- For boats up to 20 m
- Visible distance: 2 nm
- 12/24V DC & 4 W
- Deck mounted
- Waterproof, non-corrosive, non-magnetic

Code	Description	Housing
72176	Signal White 360°	Black
72173	Tri-colour 360°	Black



Classic LED 20
Port - Starboard - Stern - Masthead - Bicolor Lights 12/24V

- For boats up to 20 m
- Visible distance:
- Port - Starboard - Bi-colour: 2 nm
- Stern: 2 nm
- Masthead: 3 nm
- 12/24V DC & 4W
- Side mounted
- Waterproof, non-corrosive, non-magnetic

Code	Description	Housing
72177	Starboard Green 112,5°	Black
72178	Port Red 112,5°	Black
72179	Stern White 135°	Black
72180	Masthead White 225°	Black
72181	Bi-colour 225°	Black



Classic LED 20
All-Round & Tri-colour Light 12/24V

This all-round (white) & tri-colour navigation light features an improved bulb holder, simplified wiring installation, and a compact two-piece design. This is one compact product with protection against electrolysis and, an easier and more effective electric connection.

- For boats up to 20 m
- Visible distance: All-round: 2 nm, Tri-colour: 2 nm
- 12/24V DC & 4W/ each light
- Deck mounted
- Waterproof, non-corrosive, non-magnetic

To change the bulb follow the instructions:
1. Unscrew the casing by turning it anti-clockwise
2. Pull the casing and change the bulbs needed
3. Place the casing by matching the lugs to the relevant slots and turning clockwise



Classic LED 12 Bulb (BA15S) for All-Round Lights, 12/24V DC

Code : 72182



Classic LED 12 Bulb kit 12/24V DC

Code : 72183



Classic LED 20 Bulb (BAY15D), 12/24V DC

Code : 72184



FOS LED 20 Set Port & Starboard Sidelights 112.5°

- For boats up to 20 m
- Visible distance: 2 nm
- 12/24 V DC & 1,5 W
- Green & red LED light
- Side mounted
- Lasts for 50.000 hours
- Waterproof, non-corrosive, non-magnetic
- Weight: 155gr/pc

Included:
1. Screw DIN7981 / ISO 7049 M4.2x32mm (2 pieces per item, total 4 pieces)
2. 1,2 m length of wire per product
3. Double-side adhesive sticker that can be used as drilling drawing



71969

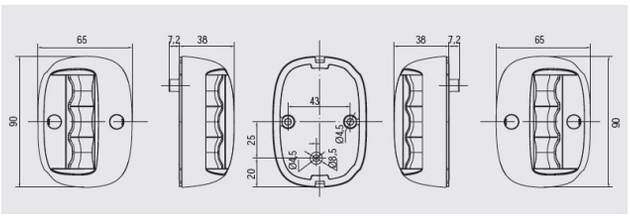


71968





Code	Housing
71968	Black
71969	White



Dimensions are in mm

FOS LED 20 Stern Light, Side Mount 135°

- For boats up to 20 m
- Visible distance: 2 nm
- 12/24 V DC & 1,5 W
- White LED light
- Side mounted
- Lasts for 50.000 hours
- Waterproof, non-corrosive, non-magnetic
- Weight: 165gr/pc

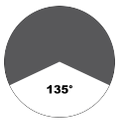
Included:
1. Screw DIN7981 / ISO 7049 M4.2x32mm (2 pieces per item)
2. 1,2m length of wire per product
3. Double-side adhesive sticker that can be used as drilling drawing



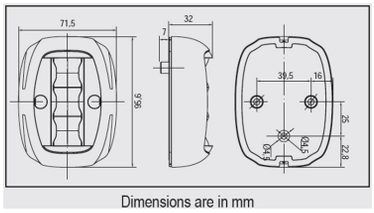
71970



71971



Code	Housing
71970	Black
71971	White



Dimensions are in mm

FOS LED 20 Masthead light 225°

- For boats up to 20 m
- Visible distance: 2 nm
- 12/24V DC & 3W
- White LED light
- Side mounted
- Lasts for 50.000 hours
- Waterproof, non-corrosive, non-magnetic
- Weight: 235gr/pc

Included:
1. Screw DIN7981 / ISO 7049 M4.2x32mm (2 pieces per item)
2. 1.2m length of wire per product
3. Double-side adhesive sticker that can be used as drilling drawing



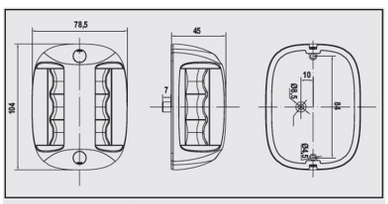
71972



71973



Code	Housing
71972	Black
71973	White



Dimensions are in mm

FOS LED 20 Bi-color Light, Side Mount

- For boats up to 20 m
- Visible distance: 2 nm
- 12/24 V DC & 3W
- Red & green LED light
- Side mounted
- Lasts for 50.000 hours
- Waterproof, non-corrosive, non-magnetic
- Weight: 235gr/pc

Included:
1. Screw DIN7981 / ISO 7049 M4.2x32mm (2 pieces per item)
2. 1.2m length of wire per product
3. Double-side adhesive sticker that can be used as drilling drawing



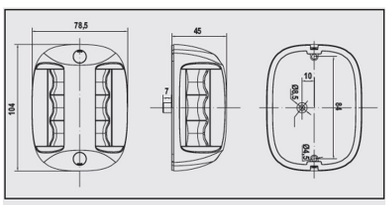
71974



71975



Code	Housing
71974	Black
71975	White



Dimensions are in mm

FOS LED 12 & 20 All-Round light 360°

- For boats up to 20 m
- Visible distance: 2 nm
- 12/24V DC & 1,5W
- White LED light
- Deck mounted
- Lasts for 50.000 hours
- Waterproof, non-corrosive, non-magnetic
- Weight: 95gr/pc

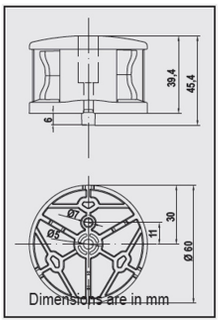
Included:
1. Screw DIN7981 / ISO 7049 M3.5x32mm
2. Wire length 0,6m
3. Double-side adhesive sticker that can be used as drilling drawing

Weight : 95gr/pc



71307





Dimensions are in mm

Code	Housing
71307	Black
71308	White

Navipro with Foot

Voltage : 10 - 30 VDC / 20 - 30 VDC
Power Consumption : 1.08 W / 3.24 W
Visibility : 2 NM / 5 NM
Material : UV proof PC & ASA
Waterproof Rating : IP67
Weight : 170g / 510g
Certified : Wheelmark 60427 / A0 MED

Approved for boats & ships up to 50m length.





	Product Description	Visibility	Lighting Intensity	Consumption	Dimensions	Weight	Ref
	Port Red 112,5°	2NM	>5,4 Cd	1,08 W	H 95 mm - Ø 69 mm	170g	00122
	Starboard Green 112,5°	2NM	>5,4 Cd	1,08 W	H 95 mm - Ø 69 mm	170g	00123
	Combined Green/Red 112,5°	2NM	>5,4 Cd	2,76 W	H 95 mm - Ø 69 mm	170g	00121
	Stern White 135°	2NM	>5,4 Cd	1,08 W	H 95 mm - Ø 69 mm	170g	00124
	Anchor White 360°	2NM	>5,4 Cd	2,76 W	H 95 mm - Ø 69 mm	170g	00119
	Masthead White 225°	2NM	>5,4 Cd	2,16 W	H 95 mm - Ø 69 mm	170g	00126
	Masthead White 225°	3NM	>15 Cd	4,32 W	H 95 mm - Ø 69 mm	170g	00128
	Masthead White 225°	5NM	>65 Cd	7,50 W	H 110 mm - Ø 69 mm	510g	00147*
	Masthead with Anchor Light	2NM	>5,4 Cd	2,76 W	H 95 mm - Ø 69 mm	170g	00127
	Masthead 3NM with Anchor Light 2NM	3NM	>15 Cd	4,32 W	H 95 mm - Ø 69 mm	170g	00129
	Masthead 5NM & Anchor 2NM	5NM	>65 Cd	7,50 W	H 110 mm - Ø 69 mm	510g	00193*
	Towing Yellow 135°	2NM	>5,4 Cd	1,08 W	H 95 mm - Ø 69 mm	170g	00130
	Green 360°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00131
	Red 360°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00132
	Yellow 360°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00165
	Blue 360°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00166
	Red Suez 135°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00152
	Red Port 180°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00154
	Red Starboard 180°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00155
	Green Port 180°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00161
	Green Starboard 180°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00162
	White Port 180°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00186
	White Starboard 180°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00187
	Blue Flash 360°	2NM	>5,4 Cd	3,24 W	H 95 mm - Ø 69 mm	170g	00181

*Power Supply = 20 - 30 VDC

Double Nav. Lights Navipro

Voltage : 10 - 30 VDC / 20 - 30 VDC
Power Consumption : 1.08 W / 3.24 W
Visibility : 2 NM / 5 NM
Material : UV proof PC & ASA
Waterproof Rating : IP67
Weight : 380g / 950g
Information : Lights can be powered independently
Certified : Wheelmark 60427 / A0 MED

Approved for boats & ships up to 50m length.





	Product Description	Visibility	Lighting Intensity	Consumption	Dimensions	Max. Weight	Ref
	Port Red 112,5°	2NM	>5,4 Cd	1,08 W	H 150 mm - Ø 69 mm	380g	00148
	Starboard Green 112,5°	2NM	>5,4 Cd	1,08 W	H 150 mm - Ø 69 mm	380g	00149
	Stern White 135°	2NM	>5,4 Cd	1,08 W	H 150 mm - Ø 69 mm	380g	00150
	Masthead White 225°	3NM	>15 Cd	4,32 W	H 150 mm - Ø 69 mm	380g	00157
	Masthead White 225°	5NM	>65 Cd	7,5 W	H 165 mm - Ø 69 mm	950g	00156*
	Red 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00167
	Red 360° over White 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00173
	Red 360° over Green 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00171
	Green 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00168
	Green 360° over White 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00175
	Green 360° over Red 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00170
	Anchor White 360°	2NM	>5,4 Cd	2.76 W	H 150 mm - Ø 69 mm	380g	00160
	White 360° over Red 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00172
	White 360° over Green 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00174
	Red Port 180°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00182
	Red Starboard 180°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00183
	Green Port 180°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00184
	Green Starboard 180°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00185
	White Port 180°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00190
	White Starboard 180°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00191
	Towing Yellow 135°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00169
	Red 360° over White 360° over Green 360°	2NM	>5,4 Cd	3,24 W	H 150 mm - Ø 69 mm	380g	00192

*Power Supply = 20 - 30 VDC

BOFOR Classic Hatch

CE approved and certified at design category A on area II.

Simple conventional design for quick and safe fixing. This heavy-duty hatch is made of top-quality aluminium alloy extrusion, hand polished, and deep anodized for maximum corrosion resistance. A thick acrylic with UV addition is fixed on the self-supporting frame carefully with a quality sealant to give % 100 waterproofing.

Square, rectangular, and trapezoid shapes and many sizes to choose from. can be locked from the inside by a button switch on the handle. External handles enable the hatch to open from outside if not locked. Friction hinge to open in any position. Adjustable by M8 inbus bolt nut in the hinge.

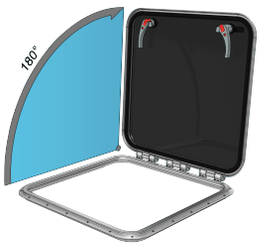
Joints are water-proof by neoprene.

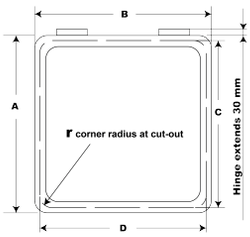
Beige ABS trims molding to suit any hull thickness.

Customized hatches are manufactured, with cut out radius r= 40, 65, 75 and 100 mm ‘(with no ABS finishing frame)

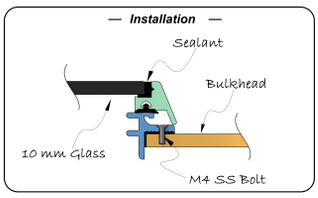
Item :	Material :
1. Main frame	Aluminium 6063
2. Lid frame	Aluminium 6063
3. Gasket	Neoprene 18mm x 13mm

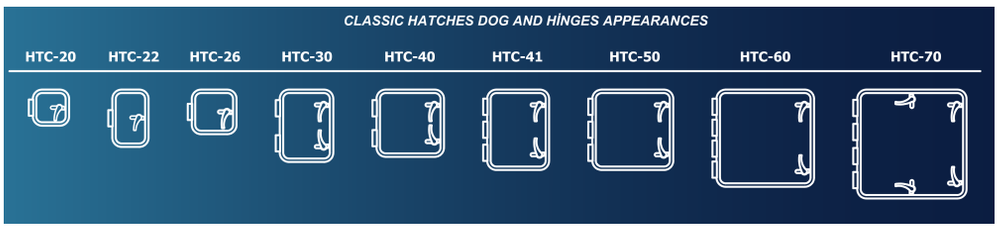






A and B **OVERALL** dimension
C and D **CUTOUT** dimension





Classic Hatch (HTC) Size List

Types	Cut Out	Clear Opening	Overall	Height	Bent / Radius
HTC-20	202 x 202 mm	176 x 176 mm	250 x 250 mm	38 mm	40 mm
HTC-22	202 x 347 mm	176 x 321 mm	250 x 395 mm	38 mm	40 mm
HTC-26	260 x 260 mm	234 x 234 mm	307 x 307 mm	38 mm	40 mm
HTC-30	320 x 450 mm	294 x 424 mm	367 x 497 mm	38 mm	40 mm
HTC-40	415 x 415 mm	389 x 389 mm	462 x 462 mm	38 mm	40 mm
HTC-41	377 x 505 mm	351 x 479 mm	422 x 553 mm	38 mm	40 mm
HTC-50	505 x 505 mm	479 x 479 mm	557 x 557 mm	38 mm	40 mm
HTC-60	620 x 620 mm	594 x 594 mm	667 x 667 mm	38 mm	40 mm
HTC-70	700 x 700 mm	674 x 674 mm	747 x 747 mm	38 mm	40 mm

TA1 Hand Horn, Snap-on, Inflammable, 200ml

Hand-held gas horn, snap-on type, complete with aluminium bottle. Environmentally safe inflammable gas 200 ml.



PART NO.	PRODUCT NAME	Hz	dB(A) (1m)	INFLAMMABLE GAS	VOLUME (ml)	CONNECTION	WEIGHT (kg)
13006020	TA1	400	122	Yes	200	Snap-on	0,32

MT2 Set of Chromed Horns

Single or double electromagnetic horn. The acoustic unit is carefully protected and manufactured of non-corrosive materials. Entirely chrome plated, complete with fixing hardware.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB(A) (1m)
13202012	MT2	12	10	410/490	116
13202013	MT2	24	7	410/490	116

EMX1 Horn, Stainless Steel Long

Single or double electromagnetic horn with stainless steel trumpet , bracket and membrane. New support design with integrated cable. Complete with fixing hardware.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB(A) (1m)	LENGTH (MM)	MOUTH (MM)	WEIGHT (KG)
13204312	EMX1	12	6	340	105	470	97	0,9
13204313	EMX1	24	3	340	105	470	97	0,9

EMX2 Horn, Stainless Steel Short

Single or double electromagnetic horn with stainless steel trumpet , bracket and membrane. New support design with integrated cable. Complete with fixing hardware.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB(A) (1m)	LENGTH (MM)	MOUTH (MM)	WEIGHT (KG)
13204212	EMX2	12	6	370	105	400	97	0,90
13204213	EMX2	24	3	370	105	400	97	0,90

EMX1/2 Set, Stainless Steel Trumpets

Double electromagnetic horn with stainless steel trumpet , bracket and membrane. New support design with integrated cable. Complete with fixing hardware.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB(A) (1m)	LENGTH (MM)	MOUTH (MM)	WEIGHT (KG)
13206112	EMX1/2	12	12	370/340	122	400/470	97	1,80
13206113	EMX1/2	24	6	370/340	122	400/470	97	1,80

MA1-S Single Brass Chromed Horn

Single air horn for boats, entirely manufactured of non-corrosive materials. High-quality chromed brass trumpet, complete with compressor, fixing hardware, and relay.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB(A) (1m)	LENGTH (MM)	MOUTH (MM)
13400112	MA1-S	12	20	228	117	500	117
13400113	MA1-S	24	11	228	117	500	117

TC1/P Mini Horn - White ABS

Electropneumatic horn with reduced dimensions (total length 25 cm) but with high sound output, complete with electric compressor, tubing and mounting hardware.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	FUSE (A)	Hz	dB(A) (1m)	LENGTH (MM)	MOUTH (MM)
13406112	TC1/P	12	16	25	420	116	250	100
13406113	TC1/P	24	8	15	420	116	250	100

PW3 Whistle 20/75 m, ø300 mm + Electric Valve

Approved whistle complete with chromed or white horn Ø 300 mm. Electric valve and mounting accessories, for compressed air operation 6/12 bar. Meets COLREG 1972 IMO class III regulations. Approvals: RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, BSH and NMMA.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB (1/3 OCT.) (1m)	HOSE (ID) (mm)	DIMENSIONS (mm)
15200012	PW3	12	4,5	315	132	8 / 6	Ø300x465x245
15200013	PW3	24	2,5	315	132	8 / 6	Ø300x465x245

EW3 Electronic Whistle

Approved electronic whistle complete with a loudspeaker, built-in membrane control panel, and electronic controller. New ultrasonic heating system for improved acoustic membrane performance. Meets COLREG 1972 IMO class III international regulations with RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA, and BSH homologations. Includes mounting kit.



PART NO.	PRODUCT NAME	VOLTAGE (V)	CONSUMPTION (A)	Hz	dB (1/3 OCT.) (1m)	DIMENSIONS (mm)
15206313	EW3	24	5	698	>130	Ø325x437x351
15206413	EW3-MS	24	5	698	>130	Ø325x437x351
15206013	EW3-M	24	5	698	>130	Ø325x437x351

PART NO.	PRODUCT NAME	HORN	FOG	VHF INPUT	MICROPHONE	SIREN
15206313	EW3	✓	✓			
15206413	EW3-MS	✓	✓	✓	✓	
15206013	EW3-M	✓	✓	✓	✓	✓

BE3 Bell ø300 mm

Approved signaling bells of polished brass or chrome, for vessels between 20 and 75 m in length, Ø 300 mm.



PART NO.	PRODUCT NAME	APPROVAL	MATERIAL	DIMENSIONS (mm)	WEIGHT (kg)
15202010	BE3	RINA	Polished Brass	Ø300	8

BE3-C Chromed Bell ø300 mm

Approved signaling bells of polished brass or chrome, for vessels between 20 and 75 m in length, Ø 300 mm.



PART NO.	PRODUCT NAME	APPROVAL	MATERIAL	DIMENSIONS (mm)	WEIGHT (kg)
15202110	BE3-C	RINA	Chrome Plated Brass	Ø300	8

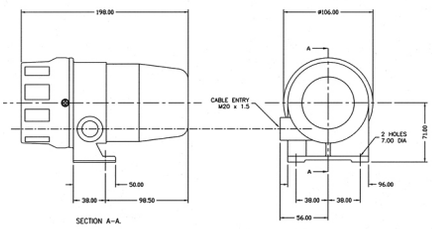
Duplo

The Duplo is a powerful motor-driven siren that produces a very high sound output despite its physically compact construction.

With its weatherproof design, the Duplo can be used both indoors and outdoors for general safety warnings.

Features :
- High output siren sound (127dB)
- Rugged construction for use in all environments
- Weatherproof to IP65A
- Mounting bracket for ease of installation





PART NO.	COLOURS	AUDIBILITY (TONE) AT 1M (TYPICAL)	TONES (UP TO)	VOLTAGE (50/60 Hz)	CURRENT (TONE DEPENDENT)
SLB-0002	Grey/Black	Up to 127 dB (A)	1	230V AC/DC	2.0A

Nexus 105/110/120 Sounder Beacon (Industrial)

The Nexus 105, 110, and 120 are high-output sounder beacons designed for industrial applications.

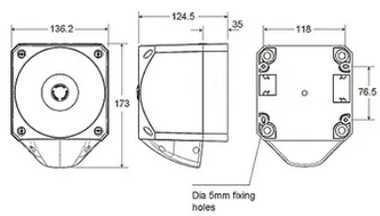
DC and AC variants are available.

Nexus 105 sounder beacon features :
- High sound output: 113dB (max); 105dB typical
- 5J xenon beacon
- Quarter turn fasteners for ease of installation
- First-fix, wire to base technology
- IP66 rated
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder & beacon



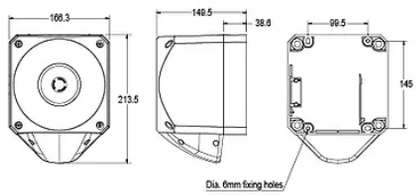
Nexus 110 sounder beacon features :
- High sound output: 116dB (max); 110dB typical
- Low voltage AC variant
- 5J xenon and LED beacon options
- Three alarm stages
- Quarter turn fasteners for ease of installation
- First-fix, wire to base technology
- IP66 rated
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder & beacon

Nexus 105 ▶



Nexus 120 sounder beacon features :
- High sound output 120dB (A)
- 5J xenon beacon
- Three alarm stages
- Quarter turn fasteners for ease of installation
- First-fix, wire to base technology
- IP66 rated
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder & beacon

Nexus 110/120 ▶



Model	IP Rating	Audibility at 1m	Tones	Voltage	Sounder Current	Operating Temp	Cable Entries	Weight	Compliance
105	IP66	Up to 113dB (A)	64	10-60V DC / 110/230V AC	8-40mA (DC) / 40mA max (AC)	-25°C to +70°C (DC) / -25°C to +55°C (AC)	5	0.8kg	EN54-3 Type (DC)
110	IP66	Up to 116dB (A)	64	10-60V DC,24-48V AC (LED), 110/230V AC (Xenon)	10-50mA (DC), 30-100mA (LED), 40mA (Xenon)	-25°C to +70°C(DC) / -25°C to +55°C (AC)	5	1.2kg	EN54-3 Type B (DC)
120	IP66	Up to 120dB (A)	64	10-60V DC, 110/230V AC	-	-25°C to + 70°C (DC) / -25°C to + 55°C (AC)	5	2kg	EN54-3 Type B (DC)

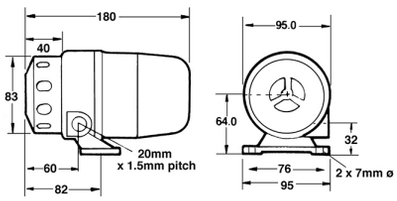
Mono 72

The Mono 72 is a powerful motor-driven siren that produces a clear, high-output siren sound.

With its weatherproof design, the Mono 72 can be used both indoors and outdoors for general safety warnings.

Features :
- High output siren sound (120dB)
- Rugged construction for use in all environments
- Weatherproof to IP65
- Mounting bracket for ease of installation





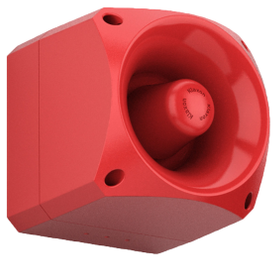
PART NO.	COLOURS	AUDIBILITY (TONE) AT 1M (TYPICAL)	TONES (UP TO)	VOLTAGE (50/60 Hz)	CURRENT
SLA-0001	Red/Black	Up to 120 dB (A)	1	110V AC	1.2A
SLA-0002	Red/Black	Up to 120 dB (A)	1	230V AC	0.6A

Nexus Sounder

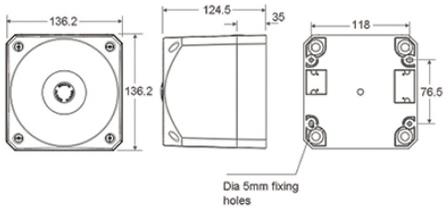
This high-output sounder is designed for industrial applications.

Available as DC or AC variant.

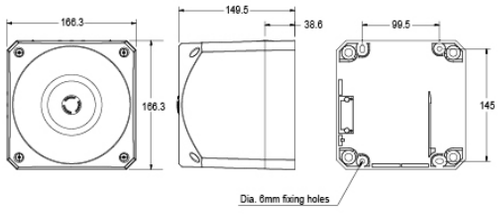
Features :
- Three alarm stages
- First-fix, wire to base technology
- IP66 rated
- Volume control for greater flexibility - 20dB
- 64 tones
- Low voltage option (AC)



Nexus 105



Nexus 110/120

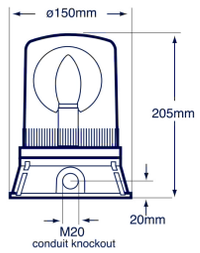


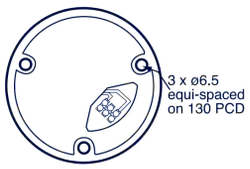
PART NO.	DESCRIPTION	COLOURS	AUDIBILITY AT 1M	TONES	VOLTAGE	CURRENT (TONE DEPENDENT)
PNS-0001	Nexus 105	Red	105dB (A)	64	10-60V DC	8-40mA
PNS-0013	Nexus 110	Red	110dB (A)	64	10-60V DC	10-50mA
PNS-0005	Nexus 120	Red	120dB (A)	64	10-60V DC	120-550mA
PNS-0009	Nexus 105	-	Up to 113dB (A)	64	110/230V AC	40mA (max)
PNS-0018	Nexus 110	-	Up to 116dB (A)	64	110/230V AC	40mA (max)
PNS-0020	Nexus 110	-	Up to 116dB (A)	64	24-48V AC	10-50mA
PNS-0011	Nexus 120	-	Up to 120dB (A)	64	110/230V AC	200mA (max)

R401-400 Series / KMT 600

Industrial Rotating Beacons / Lights







The R401-400 series beacon is a cost-effective, single-stage alarm, suitable for a wide range of applications where a powerful & commanding signal is required.

It incorporates a parabolic reflector which, when energized, revolves around a continuously illuminated lamp. This creates a powerful beam of light that sweeps through 360 degrees.

The reflector is driven by a twin belt drive system that is powered by a series wound motor for 'AC' units and a permanent magnet motor for 'DC' units. The design allows for termination inside the enclosure through the base.

Features :
- Continuously rated
- Suitable for surface and wall mounting
- Optional wall bracket & guard available – see accessories
- 3 point fix
- M20 conduit side entry or bottom cable entry
- Low current consumption options
- 360° light output around the vertical axis
- Dustproof and Weatherproof

Material :
- UV Stable Polycarbonate Lens
- UV Stable ABS Mounting Base

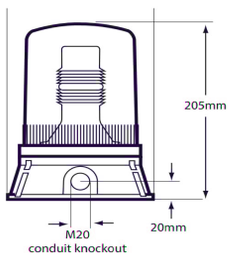
CODE NO.	KM CODE	VOLTAGE	LIGHT SOURCE	CURRENT
R401-13	6666x	12v Dc ---	H1 x 55w	4.70 A
R401-14	6668x	24v Dc ---	H1 x 70w	3.00 A
R401-29 *	6660x	24v Dc ---	Ba15s x 10w	0.60 A
R401-60	6651x	12v Dc ---	Ba15d x 21w	1.85 A
R401-61 *	6652x	24v Dc ---	Ba15d x 21w	0.95 A
R401-62	6661x	12v Dc ---	Ba15d x 48w	4.00 A
R401-63	6662x	24v Dc ---	Ba15d x 48w	2.00 A
R401-64	6664x	48v Dc ---	Ba15d x 35w	0.75 A
R400-04	6667x	115v Ac ~	E14 x 60w	0.55 A
R400-05	6669x	230v Ac ~	E14 x 60w	0.29 A

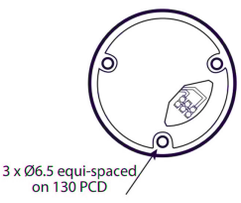
* Diode Polarised for Fire Alarm Systems

X401-400 Series / KMX 600

Flashing Industrial Xenon Beacons







The X401-400 series is suitable for security & general industrial signaling applications where a more robust and powerful signal is required.

These beacons are of the Flashing mode type (single-stage alarm) Xenon beacons (sometimes called strobes) are controlled via a PCB and put out a very brief but very bright flash of white light by ionizing and then discharging a large current through the xenon gas. The design allows for termination inside the enclosure.

This range of beacons incorporates an internal Fresnel lens designed to maximize the light intensity and has a double flash option (activated by a slide switch on the PCB) that extends the signal duration making it more noticeable to the human eye. The DC unit is factory set at 24v but a slide switch on the PCB can change it to 12v operation.

Features :
- Continuously rated
- High light output
- Suitable for surface or wall mounting
- Optional wall bracket & guard available – see accessories
- 2 point fix
- M20 conduit side entry or bottom cable entry
- 360° light output around the vertical axis
- 180° light output above the horizontal axis
- Dustproof and Weatherproof

Material :
- UV Stable Polycarbonate Lens
- UV Stable ABS Plastic Base

CODE NO.	KM CODE	VOLTAGE	LIGHT SOURCE	CURRENT
X401-18 *	6760x	12/24v Dc ---	Xenon 10 J / 7.5 J	1.45 / 0.7 A
X401-19 **	6762x	12/24v Dc ---	Xenon 10 J / 7.5 J	1.45 / 0.7 A
X400-88	6763x	24v Ac ~	Xenon 10 J / 7.5 J	0.72 A
X400-89 ***	6765x	48v Ac ~	Xenon 7 J / 5 J	0.37 A
X400-21	6767x	115v Ac ~	Xenon 10 J / 7.5 J	0.10 A
X400-22	6769x	230v Ac ~	Xenon 10 J / 7.5 J	0.06 A

* Pre-set at 24v Dc --- | ** Diode Polarised for Fire Alarm Systems | *** Ambient Temperature Range -25°C to +35°C

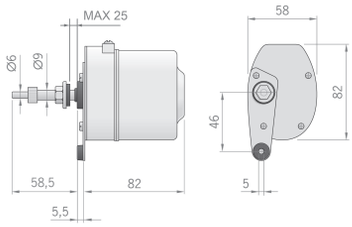
W5 Windscreen Wiper Motor

The W5 is a small and flexible wiper system for smaller windscreens on boats.

The W5 wiper motor can also be used in land-based vehicles such as forklifts, construction, agriculture, military, forest harvesting, street sweepers, or wherever you need a small compact, and efficient wiper system.

Features :
- Strong motor, marine quality
- Torque 5 Nm
- White powder lacquered cover, shaft, and mounting plate in stainless steel (AISI 304)
- Motor with adjusting sweep angle 90° or 110°
- Adjustable self-parking in the right or left position
- Standard adjustment 90° left self-parking
- Powers up to 355 mm x 355 mm /14″ x 14″ arm/blade combinations





ITEM NO.	VOLTAGE (V)	NOTE
521001	12 V	Only motor
521002	24 V	Only motor
521011	12 V	Complete with arm 520100 and blade 520911
521012	24 V	Complete with arm 520100 and blade 520911

W12 Windscreen Wiper Motor

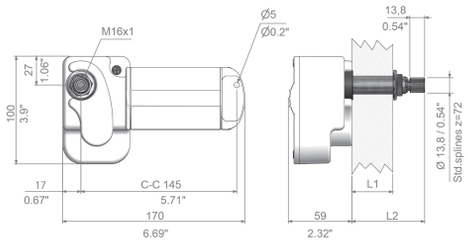
The W12 windscreen wiper motor is just as stylish as it is functional and fits perfectly in all kinds of boats. It is water-sprayproof and can be mounted both inside and outside.

The W12 is also popular on many land-based vehicles.

Except for being the natural choice for any recreational boat, the W12 waterproof windscreen wiper motor system can also be used in land-based vehicles.
For example in construction, agriculture, military, forest harvesting, on street sweepers, forklifts, or wherever you need a small, compact, and efficient wiper system.

Specifications :
- 2 Speed, self-parking
- Heavy-duty motor, 12 Nm
- Driveshaft in stainless steel
- Adjustable sweep angle: 45 – 110°
- CE approved; EMC protected
- Water spray proof according to IP65
- Insulated ground for metal, plastic, and wooden boats
- Powers up to 610 mm x 560 mm /24″ x 22″ arm/blade combinations
- Can be mounted both outside and inside





ITEM NO.	VOLTAGE (V)	L1 (MM)	L2 (MM)	COLOR
533011	12 V	16/0.63”	42/1.65”	White
533012	24 V	16/0.63”	42/1.65”	White
533021	12 V	42/1.65”	68/2.68”	White
533022	24 V	42/1.65”	68/2.68”	White
533031	12 V	68/2.68”	94/3.70”	White
533032	24 V	68/2.68”	94/3.70”	White
533511	12 V	16/0.63”	42/1.65”	Black
533512	24 V	16/0.63”	42/1.65”	Black
533521	12 V	42/1.65”	68/2.68”	Black
533522	24 V	42/1.65”	68/2.68”	Black

W5 Wiper Arm

A stainless steel wiper arm in black anti-glare paint for the W5 wiper motor.

Features :
- Fits our W5 wiper motor
- Adjustable length: 11-14″/280-355 mm
- Black anti-glare paint
- The J-hook connection fits most wiper blades on the market



ITEM NO.	MATERIAL	SURFACE TREATMENT	ADJUSTABLE LENGTH (MM)
520100	Stainless steel (AISI304)	Painted black	280 - 355 mm

W25 & W38 Wiper Arm – Adjustable Tip

A stainless steel pendulum wiper arm with an adjustable tip. Fits our W25 and W38 wiper motors.

Features :
- Adjustable length: 18-30”/470-750 mm
- Adjustable length: 25-35”/620-900 mm
- Electropolished or black anti-glare paint
- Adjustable tip: ±40°
- Saddle width 16 mm
- Includes wiper blade adapter and spray nozzle



ITEM NO.	MATERIAL	SURFACE TREATMENT	ADJUSTABLE LENGTH (MM)	NOTE
536230	Stainless steel (AISI304)	Electropolished	18 - 30”/ 470 - 750 mm	Bulk pack
538230	Stainless steel (AISI304)	Painted black	18 - 30”/ 470 - 750 mm	Bulk pack
538235	Stainless steel (AISI304)	Painted black	25 - 35”/ 620 - 900 mm	Bulk pack

Wiper Arm with Adjustable Tip

Wiper arm with an adjustable tip for our wiper systems W10 and W12. The wiper arm is available in black or electropolished acid-proof stainless steel.

Features :
- Fits W10 and W12
- Adjustable length: 9,5-12″/240-305 mm or 324-460 mm / 12.8-18″/ or 454-591 mm / 18-23.3″
- Electropolished or black anti-glare paint
- Adjustable tip: ±40°
- Bulk or Blister packed
- The J-hook connection fits most wiper blades on the market



ITEM NO.	MATERIAL	SURFACE TREATMENT	ADJUSTABLE LENGTH (MM)	NOTE
536218	Stainless steel (AISI304)	Electropolished	12.8 - 18"/324 - 460 mm	Bulk pack
536224	Stainless steel (AISI304)	Electropolished	18 - 23.3"/454 - 591 mm	Bulk pack
537218	Stainless steel (AISI304)	Electropolished	12.8 - 18"/324 - 460 mm	Retail pack
537224	Stainless steel (AISI304)	Electropolished	18 - 23.3"/454 - 591 mm	Retail pack
538212	Stainless steel (AISI304)	Painted black	9,5 - 12"/240 - 305 mm	Bulk pack
538218	Stainless steel (AISI304)	Painted black	12.8 - 18"/324 - 460 mm	Bulk pack
538224	Stainless steel (AISI304)	Painted black	18 - 23.3"/454 - 591 mm	Bulk pack
539218	Stainless steel (AISI304)	Painted black	12.8 - 18"/324 - 460 mm	Retail pack
539224	Stainless steel (AISI304)	Painted black	18 - 23.3"/454 - 591 mm	Retail pack

Wiper Blade

A wiper blade in natural rubber and stainless steel with anti-glare painting. Suitable for ROCA wiper arms with a saddle width of 16 mm.



ITEM NO.	MATERIAL	SURFACE TREATMENT	LENGTH (MM)	FITS	NOTE
520809	Stainless Steel/Rubber	Painted black	9"/229 mm	W10, W12	Bulk pack
520818	Stainless Steel/Rubber	Painted black	18”/455 mm	W12, W38L	Bulk pack
520820	Stainless Steel/Rubber	Painted black	20”/480 mm	W12, W38L	Bulk pack
520822	Stainless Steel/Rubber	Painted black	22”/559 mm	W12, W25, W38, W38L	Bulk pack
520824	Stainless Steel/Rubber	Painted black	24”/610 mm	W25, W38	Bulk pack
520828	Stainless Steel/Rubber	Painted black	28”/710 mm	W25, W38	Bulk pack
520830	Stainless Steel/Rubber	Painted black	30”/760 mm	W25, W38	Bulk pack
520832	Stainless Steel/Rubber	Painted black	32”/810 mm	W38	Bulk pack
520833	Stainless Steel/Rubber	Painted black	33”/838 mm	W38	Bulk pack
520834	Stainless Steel/Rubber	Painted black	34”/863 mm	W38	Bulk pack
520835	Stainless Steel/Rubber	Painted black	35”/890 mm	W38	Bulk pack

Pantograph Arm

Pantograph windshield wiper arm in electropolished or black-painted stainless steel.



Features :
- The pantograph arm fits our wiper motors W10, W12 and W38L
- Adjustable length: 12.8-18″/324-460mm or 18-23.3″/454-591mm
- Bulk or Blister packed
- J-hook connection, fits most wiper blades on the market

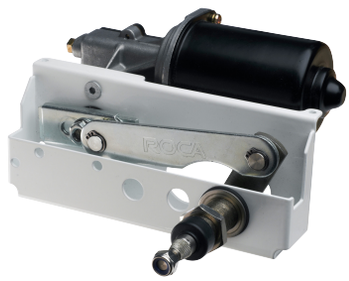
ITEM NO.	MATERIAL	SURFACE TREATMENT	ADJUSTABLE LENGTH (MM)	NOTE
536318	Stainless steel (AISI304)	Electropolished	12.8 - 18"/324 - 460 mm	Bulk pack
536324	Stainless steel (AISI304)	Electropolished	18 - 23.3"/454 - 591 mm	Bulk pack
537318	Stainless steel (AISI304)	Electropolished	12.8 - 18"/324 - 460 mm	Retail pack
537324	Stainless steel (AISI304)	Electropolished	18 - 23.3"/454 - 591 mm	Retail pack
538318	Stainless steel (AISI304)	Painted black	12.8 - 18"/324 - 460 mm	Bulk pack
538324	Stainless steel (AISI304)	Painted black	18 - 23.3"/454 - 591 mm	Bulk pack
539318	Stainless steel (AISI304)	Painted black	12.8 - 18"/324 - 460 mm	Retail pack
539324	Stainless steel (AISI304)	Painted black	18 - 23.3"/454 - 591 mm	Retail pack

W25 Windscreen Wiper Motor

The W25 wiper system is a single-driven yet strong windshield wiper motor. It is perfect for medium-sized cabin boats with big front windshields where you need to get the best possible visibility.

Equipped with one of our wiper controllers you will get a complete system that enables the highest wiper precision.

The W25 wiper system is a single-driven windshield wiper motor, perfect for medium-sized cabin boats with big front windshields.



Specifications :
- With a 25 Nm torque and a strong drive system, it powers up to 750 mm / 30″ arms and blades
- The sweep angle is easily adjusted from 45-110° for maximum visibility
- CE approved, EMC protected
- Two speeds: Slow 35 sweeps/min and fast 55 sweeps/min
- Dynamic parking can be changed from Left to Right
- Pantograph or pendulum arms

ITEM NO.	VOLTAGE (V)	L1 (MM)	L2 (MM)
531015	12 V	28/1.1"	78/3.07"
531016	24 V	28/1.1"	78/3.07"
531025	12 V	53/2.1"	103/4.06"
531026	24 V	53/2.1"	103/4.06"
531035	12 V	78/3.1"	128/5.04"
531036	24 V	78/3.1"	128/5.04"

W38 Windscreen Wiper Motor, Single Drive

The W38 wiper motor is made for bigger windshields where you need a longer wiper arm.

This windshield wiper motor is suitable for the toughest conditions and can easily be adjusted from 45° – 110° for maximum visibility.



Features :
- Torque: 38 Nm
- Powers up to 900 mm / 35” arms and blades
- Two speeds: 35 sweeps/min and 55 sweeps/min
- Easily adjustable sweep angle 45 – 110°
- Voltage Input: 12 or 24 VDC
- CE approved; EMC protected
- Driveshaft in stainless steel
- Insulated ground for metal, GRP, and wooden boats.
- Pantograph or pendulum arms

ITEM NO.	VOLTAGE (V)	L1 (MM)	L2 (MM)
531017	12 V	28/1.1”	78/3.07”
531018	24 V	28/1.1”	78/3.07”
531027	12 V	53/2.1”	103/4.06”
531028	24 V	53/2.1”	103/4.06”
531037	12 V	78/3.1”	128/5.04”
531038	24 V	78/3.1”	128/5.04”

Wiper Control for 1-3 Motors

Now you can master up to 3 W10 or W12 wiper motors with this small and reliable wiper control box.

The wiper control box gives you full control of your wiper system and includes interval, synchronized sweep, and flushing integration.

A wiper control box for 1-3 W10 wiper motors or W12 wiper motors.



Features :
- Start the helm seat motor or all motors from one button
- Synchronized sweeps:
    - Interval (5 seconds)
    - Slow speed 35 sweeps/minute
    - Fast speed 55 sweeps/minute
- Washing system
- Space-saving and easy to install
- Material: Stainless steel/Aluminum
- Treatment: Painted white
- 12 or 24 V

ITEM NO.	FITS
532003	W10/W12

Tank Set for Wiper Systems

This tank set with a 2,5-liter tank with a pump completes your windshield wiper system.

- T-connection and mounting attachment.
- 12 or 24 Voltage.
- Tank in plastic and bracket in stainless steel.



ITEM NO.	MATERIAL	VOLTAGE (V)	POWER CONSUMPTION
531161	Plastic/ Stainless Steel	12 V	Max 3,5 A
531162	Plastic/ Stainless Steel	24 V	Max 1,75 A

Bulkhead Fitting for Washer Systems

Bulkhead fitting for washer systems.

- Max bulkhead: 80 mm
- For tube: Ø8 mm



ITEM NO.	MATERIAL
531147	Plastic/Stainless steel (AISI304)

Wiper Motors (TMC-003 series)

TMC-00301/00302

Self-parking marine wiper motor white painting coated housing

SWEEPING ANGLE: 90°/ 110°

MOTOR :12V / 24V

AMP DRAW :1.0A (12V) / 0.5A (24V)

FUSE SIZE :1.5A (12V) / 1A (24V)

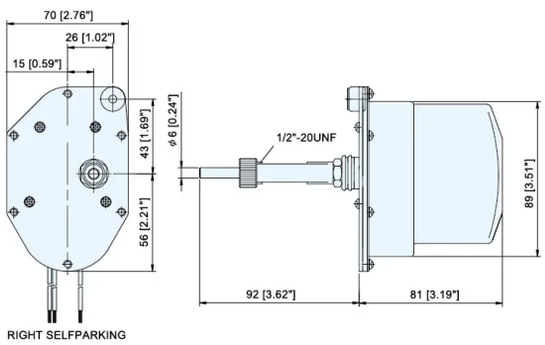
PACKING :24pcs/ ctn/1.58cuft/21.5kgs



TMC-00301 / 00302



00007 00008 00014 00015



RIGHT SELFPARKING

Heavy-Duty Wiper Motors

TMC-00902

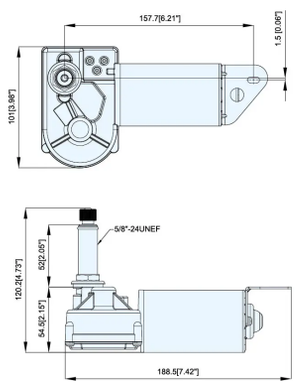
Heavy-Duty marine wiper motor

2.0"shaft, 2-speed, left self-parking

SHAFT : 2.0"

The rest specifications are same as TMC-00901





Heavy Duty Adjustable Wiper Arms

- For use with TMC-00901,00902, 00905 & 00906 heavy duty wiper motors, except screw on type TMC-0091101.
- Stainless steel (ss304) adjustable wiper arms.
- Arm has articulating / bend-back feature.

Singel Adjustable Wiper Arm (ss304)



ORDER NO.
508-00009A (00009A) 9-1/4"~12-3/8" (235mm~315mm)
508-00009LA (00009LA) 11-1/4"~15" (285mm~380mm)

Singel Adjustable Wiper Arm (ss304)



ORDER NO.
508-00010A (00010A) 11-1/4"~15" (285mm~380mm)
508-0501304A (0501304A) 13-1/2"~17-3/8" (345mm~440mm)

Heavy Duty Wiper Blades

Heavy-Duty wiper blades for TMC-00901/00902, 00905/00906 & 0091101

SUS 304



ORDER NO.
(SUS 304)
- 508-0500016 (00016) 11” SUS304
- 508-0500017 (00017) 14” SUS304
- 508-0500018 (00018) 16” SUS304

Wiper Blade (Plastic)



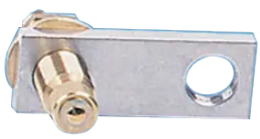
ORDER NO.
- 508-05011BP-12 (011BP-12) 12” BLACK PLASTIC
- 508-05011BP-14 (011BP-14) 14” BLACK PLASTIC
- 508-05011BP-16 (011BP-16) 16” BLACK PLASTIC
- 508-05011BP-18 (011BP-18) 18” BLACK PLASTIC

Parallel Adjustable Wiper Arms (ss304)



ORDER NO.
508-00011A (00011A) 11-1/4”~15” (285mm~380mm)
508-00012A (00012A) 13-1/2”~17-3/8” (345mm~440mm)
508-0101-18A (0101-18A) 16-3/8”~19-1/2” (415mm~495mm)
508-0101-21A (0101-21A) 19-1/2”~22-5/8” (495mm~575mm)

Bracket for Parallel Wiper Arms



ORDER NO.
508-0501501 (00013)

Electronic Wiper Controller
TMC-2240501



- Work with TMC-009 series heavy-duty wiper motors
- Can be used with DC-12V and 24V system
- Power consumption: max. 4A per wiper motor
- Fuse size: 15A
- Based on microprocessor
- Range of 5 timing regulations
- From 1-3 wipers configuration
- Smart touch panel
- LED interface
- Can be switched on individually or in any combination
- Selected function mode visualized by 5 LED lights
- Relay box with plug-in cable

PACKING :36pcs/ctn/1.25cuft
WEIGHT :9.64kgs/ctn

