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**XS Series Steel Enclosures**

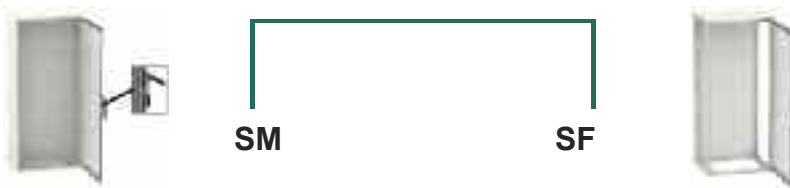
**WALL MOUNTED STEEL**

**XS1000**



**XS2000**

**STEEL FLOOR STANDING**



**XS3000**

**STEEL TERMINAL**



**XS4000**

**STEEL JUNCTION**



**XS5000**

**19" RACK & DATA SYSTEMS**



**XP Series GRP/Plastic Enclosures**

**XP1000**

**GRP WALL**



**XP2000**

**GRP FLOOR STANDING**



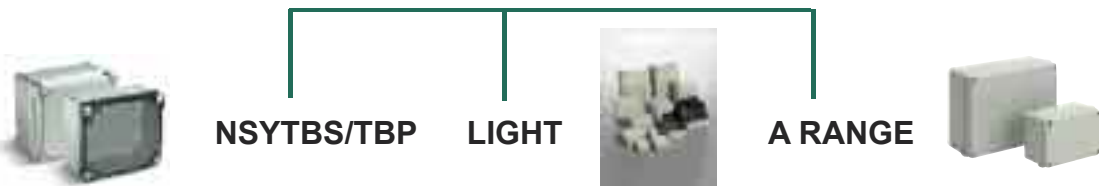
**XP3000**

**GRP/POLYCARB TERMINAL BOXES**



**XP4000**

**PLASTIC JUNCTION BOXES**



**XP5000**

**DISTRIBUTION BOXES**



**XTSERIES**

**THERMAL MANAGEMENT**



**HellermannTyton markets a comprehensive range of enclosures for the general installation, contracting and panel building industry.**

**The enclosure range accounts for all aspects of specific materials and IP ratings. Materials include Steel, Stainless Steel, GRP and PVC in wall and floor mounting enclosures.**

**IP ratings range from IP44 for indoor applications up to IP66 for outdoor applications.**

To help choose the right enclosure for the right application is therefore essential, and to assist in this HellermannTyton are committed to supplying the best solution for their customers needs.

Factors to consider when selecting an enclosure:

- Where it will be installed
- What will it be used for
- How will it be mounted
- The type of environment
- The degree of ingress protection required
- The weight of internal equipment
- Aesthetics
- The risk of physical damage
- Internal accessibility
- Which standards apply
- The maintenance requirements
- EMC or protection
- Controlling the operating temperature
- Accessories
- Security requirements
- Safety requirements

Standard general-purpose enclosures normally range in size from 50mm square up to a maximum height of around 2400mm. Therefore it should not be difficult to find an enclosure to fit even the most awkward site, or to house the required equipment with maximum economy of space, avoiding the expense of unnecessarily large enclosure.

A variety of different materials are used in the manufacture of enclosures. Those in common use are listed below, together with their advantages and limitations. Choice of material clearly has a major bearing on the degree of protection afforded by the enclosure.

**Mild Steel:**

Mild steel is the most widely used material for general-purpose indoor and outdoor applications. Standard enclosures are manufactured from steel up to 2mm thick.

Mild steel sheet is an ideal medium for fabrications, hole punching and forming into shape. It is easily welded to form a permanent bond and component parts are easily joined together.

Different gauges (thicknesses) are available from 0.75mm, however, it is not always the thickness of the material that determines the strength of the enclosure but rather the construction and how the material is formed.

**Stainless Steel:**

Stainless steel is commonly used in areas where hygiene, cleanliness or corrosion resistance are important. Grades 304 and 316 are the most common and a thickness of 0.75mm to 2mm is suitable for most enclosure applications. Stainless steel enclosures are an effective protection against more aggressive environment. Care must be taken to ensure the correct grade of material is selected.

Grade 304 is used for standard stock enclosures covering the majority of industrial beverage and dairy industries. Grade 316 is a more expensive option, covering those applications where the enclosure is to be sited in a highly corrosive environment, in particular, salt laden atmospheres.

**Advantages:**

- May be used in many aggressive environments
- Provides excellent corrosion resistance
- May be less expensive than surface treated mild steel
- Does not deteriorate when subject to exposure to sun light (ultra violet radiation)
- Alternate grades and finishes to enhance appearance and corrosion resistance
- Low maintenance

**Disadvantages:**

- More expensive than mild steel
- More difficult to work

**Plastic Materials:**

Plastics are capable of providing a tough durable product of excellent appearance. The properties of a number of materials may be varied by means of additives. The following descriptions relate to standard materials.

**Polycarbonate:**

Many different types are used for producing enclosures and with the correct choice, it may be used in a variety of locations.

This material has good impact resistance. In the long term it should not be exposed to temperatures higher than 80°C. Outdoor exposure may cause some loss of mechanical strength and yellowing in appearance. Exposed to flame it is self-extinguishing. Polycarbonate releases no toxic gases on burning. Contact with methyl alcohol, alkaline solutions, amines, gaseous ammonia and its solution should be avoided.

**ABS (Acrylonitrile Butadiene Styrene)**

Usually produced in the same design as polycarbonate enclosures, ABS is a cheaper material with characteristics similar to polycarbonate but not suitable for such extremes of temperatures and having a lower impact strength. ABS and polycarbonate may be combined offering an enclosure with an ABS base and a polycarbonate lid. When exposed to flame, it is not necessarily self-extinguishing.

**GRP (Glass Reinforced Polyester)**

The good mechanical properties of this material include insulation, strength, hardness and stability over the temperature range -50°C to +150°C. Its self-finishing quality and durability have widened its range of applications.

The electrical advantage of GRP is that it is an excellent insulator and can offer protection from electric shock. Where busbars are being fitted, use of GRP enclosures may allow reduction of the clearance between the bars and the enclosure, offering benefits of size reduction.

It should be noted that when any work is carried out on the enclosure, cut or exposes surfaces, holes or edges should be treated to avoid moisture ingress. Damage to the surface may also result in moisture ingress into the material through the exposed glass fibres.

In its unfilled state – without its glass fibres polyester is brittle but offers crystal clear transparency, making it suitable for windows or clear fronted enclosures. It may be wiped clean with soap and water. If a detergent is used, it should be rinsed well with clean water. Solvents and abrasives should not be used. Deep scratches are not easily removed and should be filled.

GRP is resistant to mineral acids, many organic acids, oxidants and reducing agents, neutral and acid salt solutions, greases and oils, and some alcohols. Resistant does not mean that it is entirely impervious – over a period of time for example some machine tool oils can affect its integrity.

**PVC (Poly Vinyl Chloride)**

PVC is used for moulding small plastic boxes. It has excellent resistance to mineral acids (both dilute and concentrated), alkalis and detergents. Resistance to alcohol-based solvents is good but poor to ketones, aromatic based and hydrocarbons. Although it is a self-extinguishing material, PVC does give off toxic and corrosive gases when burned. PVC has a low UV resistance and can be brittle.

**Nylon**

Nylon is used for moulding small boxes and can become brittle in dry atmospheres. It can be affected by moisture and has poor resistance to acids although good resistance to alkalis.

**Outdoors:**

When an enclosure is used outdoors consideration must be given to the prevailing weather conditions and extremes of temperature.

These conditions will determine choice of material e.g. GRP, stainless steel, aluminium, the design of the enclosure e.g. requirements for improvements sealing, venting, rainhoods, the addition of extra equipment e.g. heaters, vents, thermal management systems; and special finishes e.g. anti-condensation paint.

Standard steel enclosures generally are designed to meet the demands of industrial environments. Failure to take account of other conditions can result in damage to the enclosure and contents.

**The Cooling Effect:**

A standard enclosure will probably allow rainfall to run around the outside of various gasketed area. If the internal temperature is reduced rapidly the pressure inside a high IP rating enclosure may be significantly lower than the ambient pressure outside, thereby inducing a suction effect through the gasketed areas. This could result in moisture around the gaskets being drawn into the enclosure.

This effect may be avoided by reducing the number of gasketed areas in contact with the rain by choosing an enclosure with gutters and/or fitting a rain hood. Alternatively to equalise quickly by allowing the enclosure to breath (through controlled ventilation) although this may reduce the IP rating.

**Condensation:**

Condensation is often mistaken for water ingress. It is caused by a difference in temperature between the inner and outer surfaces of an enclosure and normally forms on the same side as the prevailing wind. The most common solutions are to fit anti-condensation heaters, controlled ventilation or use of anti-condensation paint.

Apart from water lying in the bottom of the enclosure, moisture may condense on the components causing electrical 'leakage' and 'tracking' as well as component corrosion and degradation of insulation.

Remember the temperature effect. Water vapour is always present in the air and when air is cooled the 'dew point' is reached, the air is then saturated and further cooling results in condensation. Looking for the cause of moisture in an enclosure on a 'warm' day may mean that the obvious is missed and the condensation has evaporated, only to return when the temperature drops again.

**Corrosive Environments:**

In certain applications enclosures will need protection from chemicals and selection of the right material is determined by the chemical involved. The most likely choice is stainless steel but even then care must be taken to ensure the correct grade is selected.

Some non-metallic materials have excellent resistance to certain chemicals and poor resistance to others. Advice should be obtained when selecting a suitable material and construction as, for example, the components within the enclosure may need protecting from harmful gases.

**Marine, Coastal and Off-shore:**

Coastal, external applications can usually be covered by referring to the previous 'outdoors' element of this section and then paying particular attention to the treatments or materials chosen to address the extra corrosion likely from the salt laden atmosphere.

Off-shore specifications depend on the intended location of the enclosure e.g. a relatively low IP rating enclosure in an accommodation area through to a vary high rating on a ship's deck.

**Hose-down areas:**






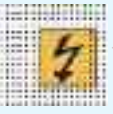

Enclosures in these areas are usually in processing plants when the environment is subject to special regulations. The enclosures chosen are usually free of surface treatment to avoid contamination, for example, by paint flakes entering the production process.










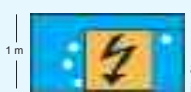



In practice most users choose stainless steel design, which have few external features, for ease of cleaning. Various non-metallic products offer the same benefits but a stainless steel enclosure will maintain the best appearance.












**UV Protection:**

UV stabilizers are added to polycarbonate to help protect the material from the effects of exposure to the sun. Radiation from the sun, especially in the UV portion of the spectrum, degrades the properties of polycarbonate which could cause warping or discolouration. The addition of UV stabilizers allows the material to sustain exposure to the sun for a longer period of time.



First numeral	
Protection against solid bodies	
<b>IP</b>	
<b>0</b>	 No protection
<b>1</b>	 Protected against solid bodies greater than 50 mm (e.g. involuntary hand contact)
<b>2</b>	 Protected against solid bodies greater than 12 mm (e.g. fingers)
<b>3</b>	 Protected against solid bodies greater than 2.5 mm (e.g. tools, cables...)
<b>4</b>	 Protected against solid bodies greater than 1 mm (e.g.: small tools, fine cables...)
<b>5</b>	 Protected against dust (no harmful deposits)
<b>6</b>	 Fully protected against dust

Second numeral	
Protection against liquids	
<b>IP</b>	
<b>0</b>	 No protection
<b>1</b>	 Protected against dripping water (condensation)
<b>2</b>	 Protected against falling water up to 15° from the vertical
<b>3</b>	 Protected against rain water up to 60° from the vertical
<b>4</b>	  Protected against water splashing in all directions.
<b>5</b>	  Protected against water jets from all directions
<b>6</b>	 Protected against wave-like water jets from all directions
<b>7</b>	  Protected against immersion
<b>8</b>	  Protected against the effects of prolonged immersion under water

Third numeral	
Mechanical protection	
<b>IK</b>	
<b>0</b>	 No protection
<b>01</b>	 Impact energy 0.150 J.
<b>02</b>	 Impact energy 0.200 J.
<b>03</b>	 Impact energy 0.350 J.
<b>04</b>	 Impact energy 0.500 J.
<b>05</b>	 Impact energy 0.700 J.
<b>06</b>	 Impact energy 1.00 J.
<b>07</b>	 Impact energy 2.00 J.
<b>08</b>	 Impact energy 5.00 J.
<b>09</b>	 Impact energy 10.00 J.
<b>10</b>	 Impact energy 20.00 J.

**NSYCRN IP66**

Steel enclosures made from a continuous length of sheet steel, double folded at the front, with back welding to the frame. Both, externally and internally protected with polyester epoxy resin grey paint RAL7035 texturized.

- IP66 for one door enclosures
- IP55 for two door enclosures
- Series NSYCRN...NSYCRN/T with transparent security glass door.
- Welded studs on the back for direct fixing of mounting plate or other accessories.
- Perforated door reinforcement profiles allowing fixing of equipment.
- Concealed and easily removable hinges allowing over 120° door opening.
- Foamed-in polyurethane gasket and front rain gutter ensures high degree of protection.
- Accessories not included as standard supply.



Enclosures					
Height (A)	Width (B)	Depth (C)	Reference	Weight (Kg)*	Reference with Transparent Door
200	200	150	NSYCRN22150	2.5	-
200	300	150	NSYCRN23150	3.9	-
250	200	150	NSYCRN252150	2.9	-
300	250	150	NSYCRN325150	4.2	NSYCRN325150T
300	250	200	NSYCRN325200	4.3	NSYCRN325200T
300	450	150	NSYCRN345150	6.7	-
300	300	150	NSYCRN33150	4.2	NSYCRN33150T
300	300	200	NSYCRN33200	4.9	NSYCRN33200T
300	400	200	NSYCRN34200	6	NSYCRN34200T
400	300	150	NSYCRN43150	5.6	NSYCRN43150T
400	300	200	NSYCRN43200	5.8	NSYCRN43200T
400	400	200	NSYCRN44200	8	NSYCRN44200T
400	600	250	NSYCRN46250	10	NSYCRN46250T
400	600	300	NSYCRN46300	11.5	-
500	400	150	NSYCRN54150	7.5	NSYCRN54150T
500	400	200	NSYCRN54200	8.6	NSYCRN54200T
500	400	250	NSYCRN54250	9.5	NSYCRN54250T
500	500	250	NSYCRN55250	11	NSYCRN55250T
600	400	150	NSYCRN64150	8.5	NSYCRN64150T
600	400	200	NSYCRN64200	9.8	NSYCRN64200T
600	400	250	NSYCRN64250	10.8	NSYCRN64250T
600	500	150	NSYCRN65150	10.2	NSYCRN65150T
600	500	200	NSYCRN65200	12	NSYCRN65200T
600	600	250	NSYCRN66250	12.3	NSYCRN66250T
600	600	200	NSYCRN66200	14	-
600	600	250	NSYCRN66250	15	NSYCRN66250T
600	600	300	NSYCRN66300	16.3	NSYCRN66300T
600	800	300	NSYCRN68300	22	NSYCRN68300T
700	500	200	NSYCRN75200	14.3	NSYCRN75200T
700	500	250	NSYCRN75250	15.5	NSYCRN75250T
800	600	200	NSYCRN86200	18.7	NSYCRN86200T
800	600	250	NSYCRN86250	20	NSYCRN86250T
800	600	300	NSYCRN86300	21.5	NSYCRN86300T
800	600	400	NSYCRN86400	27	NSYCRN86400T
800	800	200	NSYCRN88200	26	NSYCRN88200T
800	800	300	NSYCRN88300	30	NSYCRN88300T
800	1000	300	NSYCRN810300 **	33	-
800	1200	300	NSYCRN812300D	40	-
1000	600	250	NSYCRN106250	27	NSYCRN106250T
1000	600	300	NSYCRN106300	28	NSYCRN106300T
1000	600	400	NSYCRNG106400	36	NSYCRNG106400T
1000	800	250	NSYCRN108250	34.5	NSYCRN108250T
1000	800	300	NSYCRN108300	35	NSYCRN108300T
1000	800	400	NSYCRN108400	43	NSYCRN108400T
1000	1000	300	NSYCRN1010300 **	46.7	NSYCRN1010300T
1000	1200	300	NSYCRN1012300 **	54	NSYCRN1012300T
1000	1200	400	NSYCRNG1012400D	60	-
1200	600	300	NSYCRNG126300	37	NSYCRNG126300T
1200	600	400	NSYCRNG126400	42	NSYCRNG126400T
1200	800	300	NSYCRN128300 **	44.8	NSYCRN128300T
1200	800	400	NSYCRN128400	50	NSYCRN128400T
1200	1000	300	NSYCRN1210300 **	53.4	-
1200	1000	400	NSYCRN1210400 **	60	-
1200	1200	300	NSYCRNG1212300D	64	-
1200	1200	400	NSYCRNG1212400D	90	-
1400	1000	300	NSYCRNG1410300D	80	-

\*\* Enclosure with 3 point lock  
\*\* IP55 Rated

## Mounting Plates for NSYCRN

A complete range of mounting plates comprising of 4 versions able to provide all the mountings needed for this installation system.

- Galvanized steel plates with drill holes for fitting accessories and an earth connection.
- Insulating plates in Bakelite.
- Perforated plates in galvanized steel, drilled with 3.6 mm Ø holes, 12.5 mm apart. 2 Ø self-tapping or M4 three-lobe screws can be used.
- Universal plates for rapid cabling, manufactured in zinc dichromate steel.
- The arrangement of the drill holes combined with the positioning of the nuts cover all the fixing point distances.
- The NSYMM version available from stock



Mounting Plates		Galvanised Steel		
Height (A)	Width (B)	Reference	Thickness (mm)	Weight (Kg)
200	200	NSYMM22	2	0.3
250	200	NSYMM2520	2	0.4
300	450	NSYMM3045	2	1.8
300	250	NSYMM3025	2	0.6
300	200	NSYMM32	2	0.8
300	300	NSYMM33	2	1.2
300	400	NSYMM43	2	1.6
400	300	NSYMM43	2	1.6
400	400	NSYMM44	2	2.2
400	600	NSYMM64	2	3.1
500	400	NSYMM54	2	2.5
500	500	NSYMM55	2	3.7
600	400	NSYMM64	2	3.1
600	500	NSYMM65	2	4
600	600	NSYMM66	2	5.5
600	800	NSYMM86	2.5	9.9
700	500	NSYMM75	2	4.6
800	600	NSYMM86	2.5	9.9
800	800	NSYMM88	2.5	13.6
800	1000	NSYMM108	2.5	16.9
1000	600	NSYMM106	2.5	12.6
1000	800	NSYMM108	2.5	16.9
1000	1000	NSYMM1010	2.5	18.6
1000	1200	NSYMM1210	2.5	21.7
1200	600	NSYMM126	2.5	13.4
1200	800	NSYMM128	2.5	17.8
1200	1000	NSYMM1210	2.5	21.7
1200	1200	NSYMM1212	2.5	26.8
1400	1000	NSYMM1410	2.5	26.1

### Depth Adjustable Supports

For 200, 250, 300 and 400mm depth enclosures. The different positions allow the adjusting of mounting plates and accessories every 12.5mm. Front with drilling for 5.5mm Ø self-tapping screws for fixing of general equipment.

Depth Adjustable Support			
Reference	Enclosure Depth	Qty	
NSYSDCR200	200	Set of 4	
NSYSDCR250	250	Set of 4	
NSYSDCR300	300	Set of 4	
NSYSDCR400	400	Set of 4	

### Wall Fixing Kit

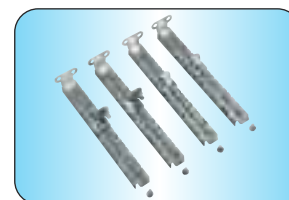
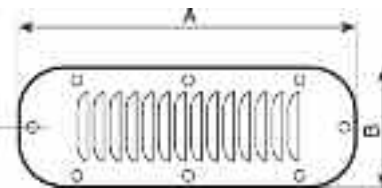
Manufactured in passivated galvanised steel. Fitted from the outside. Can be mounted vertically or horizontally. Not included in the standard order.

Wall Fixing Kit	
Reference	Description
NSYPFCR	Standard Fixing Kit

### Louvre Plates

To be fitted on any surface of the enclosure for internal ventilation. Colour RAL7035 texturised.

Louvre Plates		
Reference	A	B
NSYCAG110x46M	144	62
NSYCAG180x62M	208	90
NSYCAG216x62M	244	90
NSYCAG317x91M	345	118
NSYCAG317x120M	345	148
NSYCAG417x120M	445	148



## Locks for NSYCRN

Characteristics	Key Operated Product Ref	Reference
Full Key Operated Lock with Key 405		NSYCL405CRN
6 mm Square Key Lock	LC-7	NSYTC6CRN
7 mm Square Key Lock	LC-7	NSYTC7CRN
8 mm Square Key Lock	LC-8	NSYTC8CRN
6 mm Triangular Key Lock	LT-6,5	NSYTT6CRN
7 mm Triangular Key Lock	LT-8	NSYTT7CRN
8 mm Triangular Key Lock	LT-8	NSYTT8CRN
Stainless Steel Padlock Bracket		NSYKPLM
Padlock Transformation		NSYCBCCRN



\* Various lock configurations are available for the NSYCRNG enclosure. Please ask our customer service department for further details.

### Spare Keys

Characteristics	Reference
Manual handle with key	405 - NSYCL40SCRN
Wing	NSYLDDBS

### Canopies

Metal canopies, protected internally and externally with textured light grey polyester epoxy resin, to RAL7035.

Reference	Width	Depth
NSYTJ2015	200	150
NSYTJ2515	250	150
NSYTJ2520	250	200
NSYTJ3015	300	150
NSYTJ3020	300	200
NSYTJ4015	400	150
NSYTJ4020	400	200
NSYTJ4025	400	250
NSYTJ5015	500	150
NSYTJ5020	500	200
NSYTJ5025	500	250
NSYTJ6020	600	200
NSYTJ6025	600	250
NSYTJ6040	600	400
NSYTJ8020	800	200
NSYTJ8025	800	250
NSYTJ8030	800	300
NSYTJ8040	800	400
NSYTJ10030	1000	300
NSYTJ10040	1000	400

### Internal Door

Set of internal doors designed to attach directly to the enclosure or to the adjustable SDCR supports. Enter positioning of the mounting plate by making it depth adjustable. Finished in textured polyester epoxy paint, colour RAL7035.

Reference	Height	Width
NSYPIN43	400	300
NSYPIN54	500	400
NSYPIN64	600	400
NSYPIN75	700	500
NSYPIN86	800	600
NSYPIN106	1000	600
NSYPIN108	1000	800
NSYPIN128	1200	800



## HT IP66

Steel enclosures used to house electrical or electronic switchgear, control gear and equipment.

Mainly used for industrial electrical installations as enclosures for measurement, transmission, signposting and control equipment or as enclosures for all the equipment necessary to co-ordinate the different electrical currents.

The design and manufacture of this product line is sufficiently flexible so as to adapt to special executions that require specific dimensions in agreement with user and installation requirements.

Manufactured from high quality materials in cold-rolled plate of up to 2mm thick and coated with RAL7035 hardened epoxy polyester paint.



- Degree of protection is IP66
  - Resistance to impact is IK10
  - Range of temperature under normal conditions -25°C/+40°C
  - Maximum operation voltage (Ue) 1000V
  - RAL7035 epoxy-polyester paint\*
  - Range of accessories available
- \* Comes complete with Mounting Plate**

Steel Enclosures		Dimensions (mm)		
HT Product Code	Description	Height	Width	Depth
HT252015	IP66 Mild Steel Enclosure c/w mtg plate	250	200	150
HT302515	IP66 Mild Steel Enclosure c/w mtg plate	300	250	150
HT302520	IP66 Mild Steel Enclosure c/w mtg plate	300	250	200
HT303015	IP66 Mild Steel Enclosure c/w mtg plate	300	300	150
HT303020	IP66 Mild Steel Enclosure c/w mtg plate	300	300	200
HT403015	IP66 Mild Steel Enclosure c/w mtg plate	400	300	150
HT403020	IP66 Mild Steel Enclosure c/w mtg plate	400	300	200
HT404020	IP66 Mild Steel Enclosure c/w mtg plate	400	400	200
HT504015	IP66 Mild Steel Enclosure c/w mtg plate	500	400	150
HT504020	IP66 Mild Steel Enclosure c/w mtg plate	500	400	200
HT504025	IP66 Mild Steel Enclosure c/w mtg plate	500	400	250
HT505025	IP66 Mild Steel Enclosure c/w mtg plate	500	500	250
HT604015	IP66 Mild Steel Enclosure c/w mtg plate	600	400	150
HT604020	IP66 Mild Steel Enclosure c/w mtg plate	600	400	200
HT605020	IP66 Mild Steel Enclosure c/w mtg plate	600	500	200
HT605025	IP66 Mild Steel Enclosure c/w mtg plate	600	500	250
HT606020	IP66 Mild Steel Enclosure c/w mtg plate	600	600	200
HT606025	IP66 Mild Steel Enclosure c/w mtg plate	600	600	250
HT606030	IP66 Mild Steel Enclosure c/w mtg plate	600	600	300
HT705020	IP66 Mild Steel Enclosure c/w mtg plate	700	500	200
HT705025	IP66 Mild Steel Enclosure c/w mtg plate	700	500	250
HT806020	IP66 Mild Steel Enclosure c/w mtg plate	800	600	200
HT806025	IP66 Mild Steel Enclosure c/w mtg plate	800	600	250
HT806030	IP66 Mild Steel Enclosure c/w mtg plate	800	600	300
HT808030	IP66 Mild Steel Enclosure c/w mtg plate	800	800	300
HT1008030	IP66 Mild Steel Enclosure c/w mtg plate	1000	800	300
HT1206030	IP66 Mild Steel Enclosure c/w mtg plate	1200	600	300
HT1010300	IP66 Mild Steel Enclosure c/w mtg plate	1000	1000	300
HT12080300	IP66 Mild Steel Enclosure c/w mtg plate	1200	800	300
HT12080400	IP66 Mild Steel Enclosure c/w mtg plate	1200	800	400

Reference	Description
HTWB	Wall Mounting Brackets
HTFOK	Fully Operated Key Lock
HTTL	8mm Triangular Lock
* S4002	Standard Replacement Double Bar Lock
* S1180	Wing Lock

Accessories available:

- Wall Brackets
- Locks



\* other accessories available on request

### A range of Metal Industrial Enclosures with glazed door to IP66.

Steel enclosures used to house electrical or electronic switchgear, control gear and equipment.

- IP66
- IK10 resistant to impact
- RAL7035 epoxy-polyester paint
- Comes complete with mounting plate
- All items are available to special order



Steel Enclosures HT Product Code	Description	Dimensions		
		Height	Width	Depth
HT-T303015	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	300	300	150
HT-T403015	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	400	300	150
HT-T403020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	400	300	200
HT-T404020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	400	400	200
HT-T504015	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	500	400	150
HT-T504020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	500	400	200
HT-T504025	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	500	400	250
HT-T505025	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	500	500	250
HT-T604015	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	600	400	150
HT-T604020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	600	400	200
HT-T606020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	600	600	200
HT-T606025	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	600	600	250
HT-T705020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	700	500	200
HT-T705025	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	700	500	250
HT-T806020	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	800	600	200
HT-T806025	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	800	600	250
HT-T806030	IP66 Mild Steel Enclosure c/w mtg plate and glazed door	800	600	300

HT Product Code	Description
HT48423	Wall Mounting Supports

Other accessories are available.

Ask our customer service department.

- Inner attachment support
- Cabinet lifting eye bolts
- Mast attachment pack
- Door assembly profiles
- Plinth
- Plinth cable support
- Height adjustment elements
- RAL7035 touch up paint
- NSYEX range of hexagonal spacers
- A4/A5 document pockets



## HT IP66 ATEX Mild Steel Enclosures Plain Plate included

A range of Atmospheric Classified Mild Steel Industrial Enclosures to IP66.

Mild Steel Enclosures classified into groups and zones under Directive 99/92/CE

- Includes plain mounting plate and 4 wall brackets
- IP66 / EMA 1,12,4



### ATEX Explained:

ATEX is a term commonly used in potentially explosive atmospheres.

An explosive atmosphere is defined as a mixture of flammable substances in the form of gas, vapour or dust. When in the air under normal atmospheric conditions can or partly catch fire in the form of an explosion to a source of ignition.

Since 2003 the European directive makes compulsory to use ATEX certified enclosures & equipment in potentially explosive areas

### ATEX Atmosphere Classification

Application	Hazardous area category	Zones	Atmosphere
GROUP I MINING	M1 and M2	Gas & Dust (G and D) Zone 1: Gas, vapour and mist Zone 20: Dusts	G D G
GROUP II INDUSTRIAL (Non-Mining) MINING	1. Continuous for long periods 2. Occasional 3. Short periods only	Zone 1: Gas, vapour and mist Zone 2: Gas, vapour and mist Zone 22: Dusts	D G D

### Labelling:

0163: Organisation ref number



Atex symbol according to directive

II: Equipment for differing mining facilities and hazardous areas

2: Product category

GD: Gas and dust

EX: Product is ATEX compliant

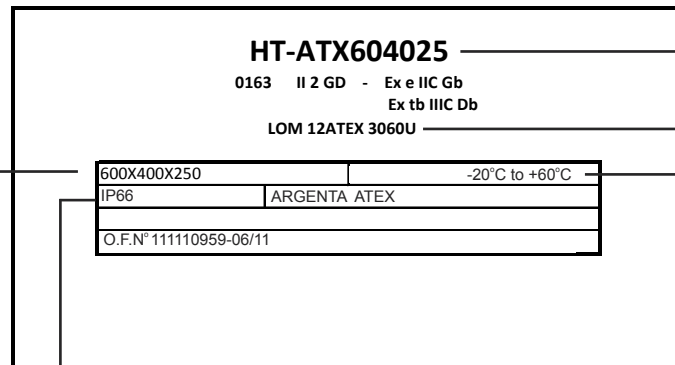
IIe: Gas type: Hydrogen and similar.

Gb/Db: Protection against dust and gas for non-electrical equipment 'Control of ignition sources'

Tb: Type of protection 'Enclosure'

IIC: Powder type

'Conducting'



Reference number

EC type certification no

Usage Temp

Manufacturing number

Degree of protection



### Technical Features

M6 earth connection bolts on door and body



M8 rivet nuts for attaching the 4 wall hangers included in the unit



M8 rivet nut for earthing



Optimized opening and closing

Steel Enclosures HT Product Code	Description	Dimensions			Cable Entries	Locks	Hinges
		Height	Width	Depth			
HT-ATX302015	Mild Steel Enclosure IP66 c/w mtg plate and 4 wall brackets	300	250	150	1	1	2
HT-ATX303020	Mild Steel Enclosure IP66 c/w mtg plate and 4 wall brackets	300	300	200	1	1	2
HT-ATX403020	Mild Steel Enclosure IP66 c/w mtg plate and 4 wall brackets	400	300	200	1	1	2
HT-ATX404020	Mild Steel Enclosure IP66 c/w mtg plate and 4 wall brackets	400	400	200	1	1	2
HT-ATX504020	Mild Steel Enclosure IP66 c/w mtg plate and 4 wall brackets	500	400	200	2	2	2



## NSYS3X IP66

Stainless steel enclosures are particularly suitable for corrosive environments and installations requiring strict hygiene. They are ideal for the chemical, petrochemical and agro food industries etc.

- Monobloc IP66 enclosures manufactured in AISI304 stainless steel. On request, these enclosures can be manufactured in AISI304L stainless steel (resistant to highly corrosive organic agents) or AISI316 stainless steel (resistant to concentrated acids and halides) for particularly hostile environments
- AST brush finish, giving an excellent surface and anti-corrosion properties
- Range of sizes comprising 14 different models. Wide range of accessories compatible with the NSYCRN range



NSYS3X IP-66 Stainless Steel Wall Mounted Enclosure						
External Dimensions			Reference	No. Locks	No. Hinges	Weight (Kg)
Height	Width	Depth				
300	200	150	NSYS3X3215	1	2	3.9
300	250	150	NSYS3X302515	1	2	4.8
300	300	150	NSYS3X3315	1	2	5
400	300	150	NSYS3X4315	2	2	5.7
400	300	200	NSYS3X4320	2	2	6.7
400	400	200	NSYS3X4420	2	2	7
500	400	200	NSYS3X5420	2	2	9.2
600	400	200	NSYS3X6420	2	2	10.7
600	600	250	NSYS3X6625	2	2	14
700	500	250	NSYS3X7525	2	2	18.5
800	600	250	NSYS3X8625	2	2	23.5
800	800	300	NSYS3X8830	2	2	31
1000	800	300	NSYS3X10830	2	3	38.5
1200	800	300	NSYS3X12830	2	3	44

Mounting Plates		Galvanised Steel (mm)		
Height (A)	Height (B)	Reference	Thickness (mm)	Weight (Kg)
300	250	NSYMM3025	2	0.6
300	200	NSYMM32	2	0.8
300	300	NSYMM33	2	1.2
300	400	NSYMM43	2	1.6
400	400	NSYMM44	2	2.2
400	600	NSYMM64	2	3.1
500	400	NSYMM54	2	2.5
600	600	NSYMM66	2	5.5
700	500	NSYMM75	2	4.6
800	800	NSYMM88	2.5	13.6
800	1000	NSYMM108	2.5	16.9
1200	800	NSYMM128	2.5	17.8

### Wall Fixing Kit

Set of four stainless steel pieces not included as standard.

Wall Fixing Kit	
Reference	Description
NSYPFCX	Standard Fixing Kit

### Locks For NSYS3X Enclosures

Converting The Standard To A Standardised Variant		
Characteristics	Key	Reference
Stainless steel 6 mm square key lock	LC-7	NSYTC6CSX
Stainless steel 7 mm square key lock	LC-7	NSYTC7CSX
Stainless steel 8 mm triangular key lock	LT-8	NSYTT8CSX
405 key lock	405	NSYCL405CSX



## Customised Solutions – A different design to suit all types of needs

HellermannTyton offer the possibility of customising metallic cabinets to adapt to each installation. Its versatile manufacturing process permits the production of any type of cabinet at very competitive prices and with very short lead times.

Sizes, shapes, dies, colours can all be manufactured with high quality materials that satisfy the technical and quality parameters demanded by the market.

- **DIES**

Moulds in body, door, assembly plate or cable gland lid according to the needs of the installation, or the possibility of making any size and shape of mould: round, square, hexagonal etc.

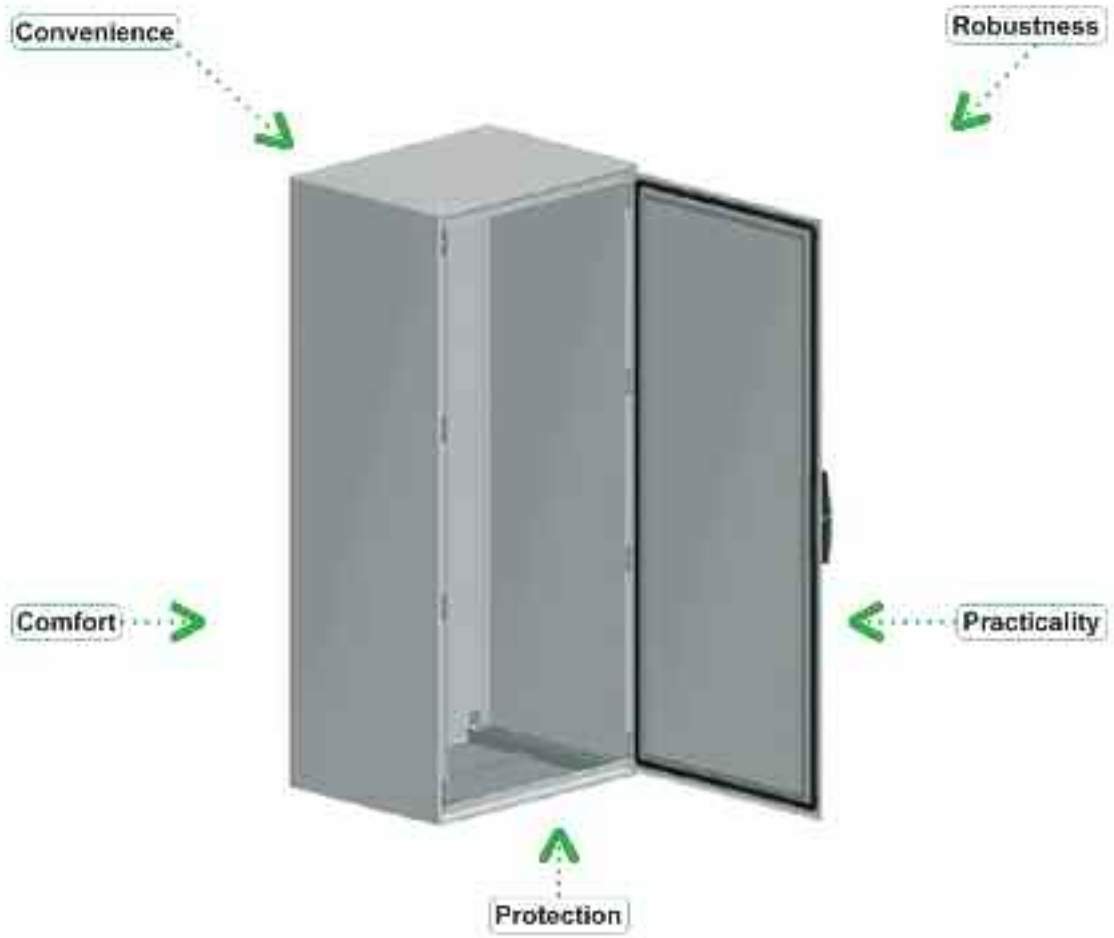
- **COLOURS**

Cabinets can be painted in any colour of the RAL chart subject to minimum quantities and delivery times.



\* Note: the above solutions are available in quantities of 50 or more.

# SM



**Robustness:**

Body made as a single piece with welded rear panel.  
Front part forming a rigid frame with welded corners



### Spacial SM - Floor Standing Monobloc

SPACIAL SM: Monobloc body made of 1.5mm sheet steel thickness. Plain door made from sheet steel with a thickness of 1.8mm and vertical reinforcements drilled every 25mm. Conforms to general rules for Empty Enclosures defined by IEC62208 standard.

- Water tightness IP 55 for single-door (Nema type 1, 2, 3, 3R, 4, 5, 12, 12k and 13)  
conforming IEC60529 IP 55 for double-door (Nema type 1, 12 and 12k)
- Robustness IK 10 (plain-door)  
conforming IEC62262 IK 08 (glazed-door)
- Paint Method: Electrostatic powder
- Element: Polyester 70%, Epoxy 30%
- Colour: RAL7035 textured
- Thickness:  $\varnothing 65 \pm 15 \% \approx m$



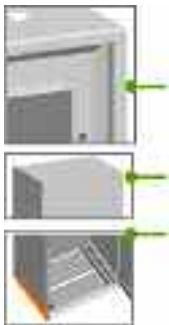
### Main Functionalities



- Modularity: Possibility of assembling compact enclosures. Thanks to the compact design of the front frame of the enclosure body, the doors can be opened without interfering with adjacent enclosures



- Lock with handle as standard (smoother door opening)  
Change of key insert with a simple "click" – screwless in all versions  
Customised with customer's logotype



- Construction technology
- Body comprised of only two parts
- Only one weld line
- Front edges welded



- FRAME: Perforated rails 25 mm pitch, allows regulating mounting plate supports and uprights

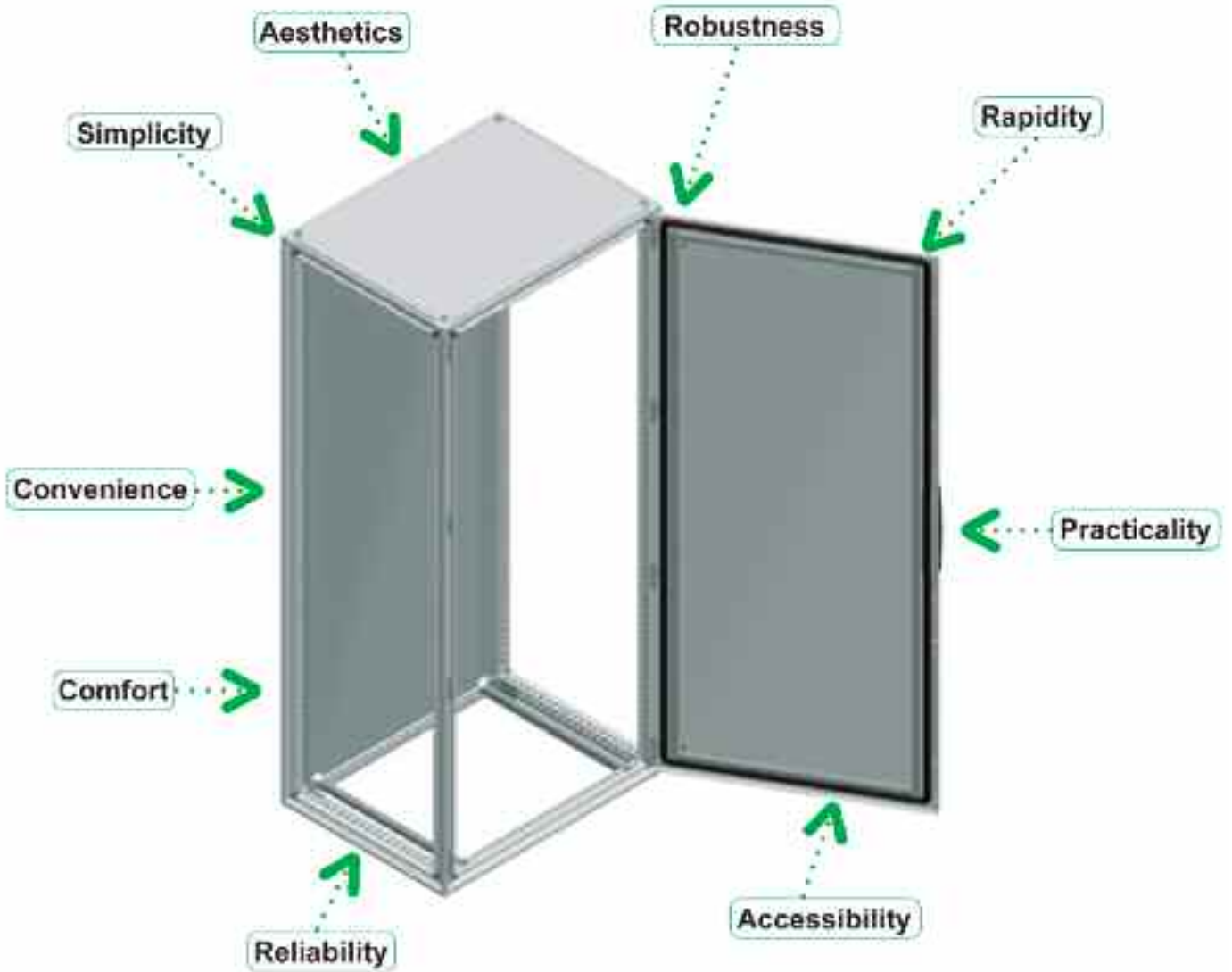


- FRAME: Perforated frame at the front of the enclosure allows the installation of accessories. The compact enclosure has the same possibilities for installing accessories as the combinable one.



- Robustness
- The most resistant body on the market
- Permissible load plate: 600 Kgs/m<sup>2</sup>
- Permissible load door: 60 Kgs/m<sup>2</sup>

SF



**Robustness:**

Structure formed from a single 1.5-mm galvanised-steel section, with a high moment of inertia. Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel. Panels built into the structure.



## Spacial SF - Floor Standing Extendable

SPACIAL SF: Structure made from profiled and laser-welded galvanised steel, with vertical and horizontal cut-outs with a pitch of 25mm. Doors made from folded and welded steel, 120° opening, hinges and captive pin and handle lock with 5mm double-bar insert. To guarantee the continuity of the protection circuit, (according IEC 62208)a protection conductor must be installed. Conforms to IEC62208 standard.

• Water tightness (Nema type 1,	Conforming IEC60529 - IP 55 for double-door 12 and 12k)
• Robustness conforming IEC62262	IK 10 (plain-door) IK 08 (glazed-door)
• Paint Method:	Electrostatic powder
• Element:	Polyester 70%, Epoxy 30%
• Colour:	RAL7035 textured
• Thickness:	Ø 65 ± 15 % □ m
• Vibration Class	DNV certified as Class 'A'



## Main Functionalities



- Kit Version: Enclosure can be supplied unassembled saving space and optimizing stocks. Parts needed: 1 Uprights, 2 Top & bottom, 3 Rear panel, 4 Door & 5 side panels



- Profile: The section (profile) makes the enclosure the most robust on the market, for the most demanding uses. Its 18 folds construction, gives the profile with the highest inertia momentum of the market. 7,70mm<sup>4</sup>.

Framework admits loads up to 1.000 Kgs



- Length of assemblies  
The total length of the assembly is the sum of the individual enclosures in it. No surprises when installing.



- Lock with handle as standard (smoother door opening)  
Change of key insert with a simple "click" – screwless in all versions. Customised with customer's logotype



- Versatility: Possibility of making assemblies in a line, "L", "T", "H" or "U" with Standard catalogue product in any size.







## SF/SM

### Cross rails

Nominal dimensions (mm)	Universal		Quick-Fixing		Universal		Quick-Fixing	
	40 mm (1 row)		60 mm (2 rows)		90 mm (3 rows)			
300	NSYSUCR4030	-	NSYSUCR6030	-	NSYSUCR9030	-	-	-
400	NSYSUCR4040	NSYSQCR4040	NSYSUCR6040	NSYSQCR6040	NSYSUCR9040	NSYSQCR9040	NSYSQCR6040	-
500	NSYSUCR4050	NSYSQCR4050	NSYSUCR6050	NSYSQCR6050	NSYSUCR9050	NSYSQCR9050	NSYSQCR6050	-
600	NSYSUCR4060	NSYSQCR4060	NSYSUCR6060	NSYSQCR6060	NSYSUCR9060	NSYSQCR9060	NSYSQCR6060	-
800	NSYSUCR4080	NSYSQCR4080	NSYSUCR6080	NSYSQCR6080	NSYSUCR9080	NSYSQCR9080	NSYSQCR6080	-
1000	NSYSUCR40100	NSYSQCR40100	NSYSUCR60100	NSYSQCR60100	NSYSUCR90100	NSYSQCR90100	NSYSQCR60100	-
1200	NSYSUCR40120	NSYSQCR40120	NSYSUCR60120	NSYSQCR60120	NSYSUCR90120	NSYSQCR90120	NSYSQCR60120	-
1400	NSYSUCR40140	-	NSYSUCR60140	-	NSYSUCR90140	-	-	-
1600	NSYSUCR40160	-	NSYSUCR60160	-	NSYSUCR90160	-	-	-
1800	NSYSUCR40180	-	NSYSUCR60180	-	NSYSUCR90180	-	-	-
2000	NSYSUCR40200	-	NSYSUCR60200	-	NSYSUCR90200	-	-	-
2200	NSYSUCR40220	-	NSYSUCR60220	-	NSYSUCR90220	-	-	-

Reference	Reference
400	NSYSLCR40
500	NSYSLCR50
600	NSYSLCR60
800	NSYSLCR80
-	-
-	-
-	-
-	-
-	-

> Cross dimensions of brackets universal/quick-fixing

### DIN rails

Nominal dimensions (mm)	Symmetrical		Asymmetrical		Double profile	
	Type	Reference	Type	Reference	Type	Reference
600	A	NSYSDR60	B	NSYADR60	A	NSYDPR60
800	A	NSYSDR80	B	NSYADR80	A	NSYDPR80
1000	A	NSYSDR100	B	NSYADR100	A	NSYDPR100
1200	A	NSYSDR120	B	NSYADR120	A	NSYDPR120

> Width of 2000 mm available in the 3 versions.

### Standard and technical uprights

Nominal dimensions (mm)	Standard uprights	Technical uprights
	Height	Reference
1700	-	NSYTVR17
1400	-	NSYTVR14
1100	-	NSYTVR11
900	NSYVR18	NSYTVR19
3100	NSYVR20	NSYTVR20
2200	NSYVR22	NSYTVR22

### Fixing elements

Fixing element	Supply	Reference
M5 caged nut	30	NSYCMF5
M6 caged nut	30	NSYCMF6
M6 non-caged nut	30	NSYCMN6
M6 non-caged nut	30	NSYCMN6
M6 + 10 mm screw	100	NSYS12M6H
M6 + 10 mm screw	100	NSYS10M6H
M6 + 10 mm screw	90	NSYS16M6H
M5 + 20 mm screw	10	NSYS20M5H
Tors T20 M6 + 10 mm screw <sup>1</sup>	100	NSYST30M6
Tors T40 M5 + 10 mm screw <sup>1</sup>	100	NSYST40M5
Tors T20 M6 + 12 mm self-locking screw <sup>1</sup>	100	NSYST30M6S

<sup>1</sup> Screw without washer

### Coupling kit

Reference SF: NSYSFBK (standard)  
Reference SM: NSYSMBK

### "L"-rail for fixing cables

Nominal dimensions (mm)	Reference
Width	
500	NSYFCG50
600	NSYFCG60
1000	NSYFCG100
1200	NSYFCG120
1500	NSYFCG150

> Adjustable in depth with a pitch of 25 mm

### Rails for heavy loads

Nominal dimensions (mm)	Reference
Depth	
400	NSYHLCR40
500	NSYHLCR50
600	NSYHLCR60
800	NSYHLCR80

> Adjustable on the sides with a pitch of 25 mm

### Lower cable-guide cross rail

Nominal dimensions (mm)	Reference
Width	
100	NSYCFP60
500	NSYCFP60
1000	NSYCFP100
1200	3 x NSYCFP60
1500	2 x NSYCFP60

> Adjustable in depth with a pitch of 25 mm

### SF/SM

Handle for shape inserts and cylindrical barrels	Handle for DIN, KABA, ASSA insert types	Double-insert handle	Padlock locking	CONNO + P
NSYSFH01	NSYSFH02	NSYSFH03	NSYBLKH123	NSYCONH123

- 1 Handle supplied with all the Special SF and Special SM enclosures. Does not include the insert when it is ordered as an accessory.
- 2 To assemble shape inserts or cylindrical barrels, the adapter set NSYLADP must be added.
- 3 Locking system. Prevents the handle from closing while the door is open.

### Flat escutcheon lock

Model	Reference
	NSYSFLOCK24
	NSYSFLOCK79
	NSYSFLOCK77
	NSYSFLOCK78
	NSYSFLOCK928
	NSYSFLOCK928
	NSYSFLOCK87
	NSYSFLOCK86
	NSYSFLOCK85

### Lifting elements

Eyelets (M12)	Lifting brackets	Lifting bar (length: mm)
NSYSFE01	NSYSFE02	NSYSFTB16
		NSYSFTB18
		NSYSFTB24
		1600
		1800
		2400

Eyelets (M20)
NSYSME01

### > Advantage:

The eyelets screwed directly into the vertical axis of the upright contribute greatly to robustness during transport.

### Internal door

Height	Nominal dimensions (mm)		Reference
	Width	Depth	
1000	600	800	NSYID108
	800	800	NSYID168
	600	800	NSYID188
1500	600	800	NSYID188
	1000	800	NSYID188
	600	800	NSYID208
2000	600	800	NSYID208
	1000	800	NSYID208
	600	800	NSYID228
2200	600	800	NSYID228



### Side door

Height	Nominal dimensions (mm)		Reference
	Width	Depth	
1200	400	800	NSYSFD128
	800	800	NSYSFD128
1400	400	800	NSYSFD148
	800	800	NSYSFD148
1600	400	800	NSYSFD168
	800	800	NSYSFD168
1900	400	800	NSYSFD184
	500	800	NSYSFD185
	800	800	NSYSFD185
2000	400	800	NSYSFD204
	500	800	NSYSFD205
	800	800	NSYSFD205
2200	400	800	NSYSFD224
	500	800	NSYSFD225
	800	800	NSYSFD225



### Door accessories

#### 180° hinge



Reference: NSYSH150

#### Door-centering caster



Reference: NSYSDRC

#### Door switch



Reference SF: NSYDCM20  
Reference SM: NSYMDCM20

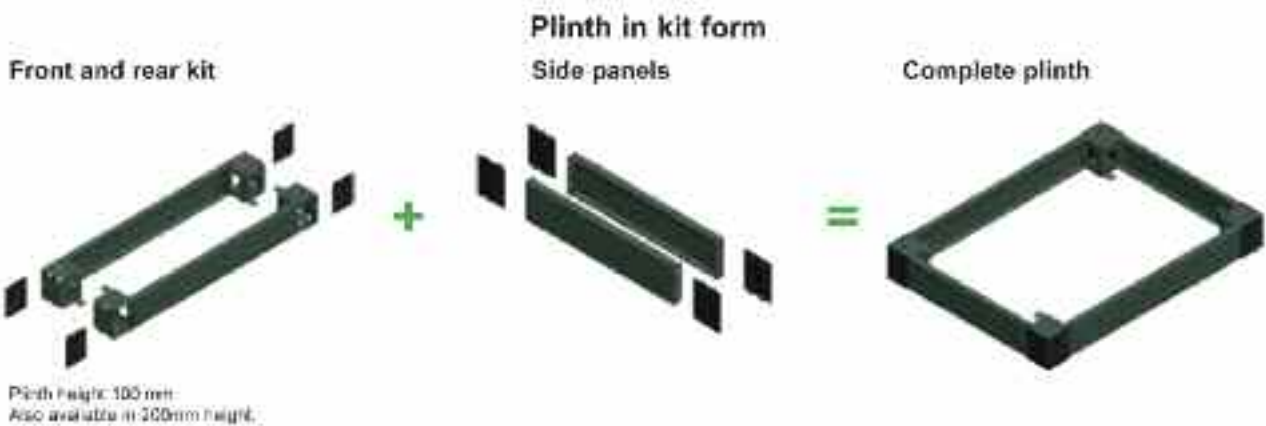
- > M20 cable entry adaptor for cable-gland used
- > Open + closed contact: 10A/250 V

#### Door rails

Nominal dimensions width (mm)	Door rail	Door cable guide cross rail
400	NSYSOCR4	-
500	NSYSOCR5	NSYSOOCR5
600	NSYSOCR6	NSYSOOCR6
800	NSYSOCR8	NSYSOOCR8
1000	NSYSOCR10	NSYSOOCR10

#### Door stops

	SF	SM
Mechanical stop: 105° opening	NSYSFMDR	NSYSMDR
Electronic stop: 120° opening	NSYSFNDR	NSYSMDR



The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure.  
The number of side panels required is decided according to the desired plinth combination.

> **Advantage:**

- Robust design.
- The modular plinth system makes it possible to reduce the number of references in stock.



**Possibility of joining plinths**

- 1 The surfaces between corners are always in contact.  
They are joined by an M8 screw and nut, not included in the standard supply.

> **Advantage:**

- Longitudinally free space for passing cables.
- Greater rigidity of the resultant assembly unit.



- 2 By side panels, the M6 screws and caged nuts, not included in the standard supply, reference NSYSPM6 and reference NSYCN9M625, which can be mounted above and/or below.

> **Advantage:**

- Improves rigidity in the depthwise direction during transport.



- 3 Vertical plinth assembly by means of M12 screws and nuts, not included in the standard supply.

> **Advantage:**

- The two heights of corners can be combined.



## Tecno Steel Terminal Boxes

A new range of mild steel terminal boxes. This range includes a set of metal terminal boxes which can be used to house electrical or electronic equipment for control, and distribution processes in industrial equipment and automation systems.

The boxes offer protection to IP65 level, and are made from high-quality materials: plating made from cold-laminated steel and coated with RAL 7035 hardened epoxy-polyester paint

The design and manufacture of this range is perfectly in line with the requirements of special installations that require specific sizes, available in 2 depths 95mm and 135mm.

All versions have screw-on lid via fast-locking screw with hermetic cap, totally flat cover permitting the placement of Pilot lights Push Buttons or other Devices. The inside of the cover lid has a continuous PU Seal that guarantees the watertight integrity of the unit to IP65.

M6x10 bolts for earth connection.

Assembly plates supplied as Accessories for all box sizes

The plates are manufactured in 2 mm thick Galvanized sheet metal. The boxes are supplied with side and centre supports to secure the assembly plates and rails, these are secured with M6x10 bolts.



BOXES WITH PLAIN SIDES		SIZES
Reference	Type	
26000	ELA151595	150 x 150 x 95
26001	ELA201595	200 x 150 x 95
26003	ELA202095	200 x 200 x 95
26004	ELA301595	300 x 150 x 95
26005	ELA302095	300 x 200 x 95
26000	ELA1515135	150 x 150 x 135
26101	ELA2015135	200 x 150 x 135
26103	ELA2020135	200 x 200 x 135
26104	ELA3015135	300 x 150 x 135
26105	ELA3020135	300 x 200 x 135
26106	ELA3030135	300 x 300 x 135
METAL BACK PLATES		
26300	PLATE	150 x 150
26301	PLATE	200 x 150
26303	PLATE	200 x 200
26304	PLATE	300 x 150
26305	PLATE	300 x 200
26306	PLATE	300 x 300

## NSYSBM – Metal Industrial Boxes Plain Door

A range of Metal Industrial Boxes

with plain door to IP66

- IP66 IEC 60529, IK10 conforming to IEC 62262
- RAL 7035
- Plain door
- Material sheet steel
- Surface finish polyester powder
- Single piece body folded and welded
- Comprises of 1 x body, 1 x cover & 4 x cover screws
- Operating temperature -35°C to +80°C
- Standards IEC62208
- Product certifications: BV, DNV, GL, LR & UL
- Mounting plates and accessories also available



Flat Doors	Size	Reference
	150x150x80	NSYSBM15180
	150x200x80	NSYSBM15280
	150x300x80	NSYSBM15380
	150x400x80	NSYSBM15480
Depth 80mm	200x200x80	NSYSBM20280
	200x300x80	NSYSBM20380
	200x400x80	NSYSBM20480
	200x500x80	NSYSBM20580
	250x300x80	NSYSBM25380
	250x400x80	NSYSBM25480
Depth 120mm	150x150x120	NSYSBM15112
	150x200x120	NSYSBM15212
	150x300x120	NSYSBM15312
	150x400x120	NSYSBM15412
	200x200x120	NSYSBM20212
	200x300x120	NSYSBM20312
	200x400x120	NSYSBM20412
	200x500x120	NSYSBM20512
	250x300x120	NSYSBM25312
	250x400x120	NSYSBM25412
	300x300x120	NSYSBM30312
	300x400x120	NSYSBM30412
	300x500x120	NSYSBM30512
	400x300x120	NSYSBM40312
	400x400x120	NSYSBM40412
	400x500x120	NSYSBM40512
	450x300x120	NSYSBM45312
	450x400x120	NSYSBM45412
450x500x120	NSYSBM45512	
Entry boxes	Size	Reference
	150x150x120	NSYSBM15012
	150x200x120	NSYSBM15112
	150x300x120	NSYSBM15212
	200x200x120	NSYSBM20012
	200x300x120	NSYSBM20112
Depth 120mm	Size	Reference
	200x400x120	NSYSBM20412
	200x500x120	NSYSBM20512
	250x300x120	NSYSBM25312
	250x400x120	NSYSBM25412
	300x300x120	NSYSBM30312
	300x400x120	NSYSBM30412
	300x500x120	NSYSBM30512
	400x300x120	NSYSBM40312
	400x400x120	NSYSBM40412
	400x500x120	NSYSBM40512
	450x300x120	NSYSBM45312
Bus boxes	Size	Reference
	200x200x120	NSYSBM20012
	200x300x120	NSYSBM20112
	200x400x120	NSYSBM20412
	200x500x120	NSYSBM20512
	250x300x120	NSYSBM25312
Reference Boxes	Size	Reference
	200x200x80	NSYSBM20280
	200x300x80	NSYSBM20380
	200x400x80	NSYSBM20480
	200x500x80	NSYSBM20580
	250x300x80	NSYSBM25380
	250x400x80	NSYSBM25480
	300x300x80	NSYSBM30380
	300x400x80	NSYSBM30480
	300x500x80	NSYSBM30580
	400x300x80	NSYSBM40380
	400x400x80	NSYSBM40480

Accessories	Reference	
Box	8MM Coupler Kit	NSYAC121180
	20 Female Flange High	NSYAF00080
	Fast locking for wire M10	NSYFM10C18
	Fast locking for wire M08	NSYFM08C20
	4 x screws for 10M	NSYAC01080
	5x Screws for 8M	NSYFM08
	100 Self Tapping Screws	NSYAF050
	1 Shape Head screws 10 x 3mm	NSYAF03030
	1 Shape Head screws Trianglo Term	NSYAF01010
	Metal mounting plate 150x150	NSYMB1150
	Metal mounting plate 150x200	NSYMB1200
	Metal mounting plate 150x300	NSYMB1300
Metal mounting plate 150x400	NSYMB1400	
Metal mounting plate 200x200	NSYMB2200	
Metal mounting plate 200x300	NSYMB2300	
Metal mounting plate 200x400	NSYMB2400	
Metal mounting plate 200x500	NSYMB2500	
Metal mounting plate 250x300	NSYMB2530	
Metal mounting plate 250x400	NSYMB2540	
Metal mounting plate 250x500	NSYMB2550	
Metal mounting plate 300x300	NSYMB3300	
Metal mounting plate 300x400	NSYMB3400	
Metal mounting plate 300x500	NSYMB3500	
Metal mounting plate 400x300	NSYMB4300	
Metal mounting plate 400x400	NSYMB4400	
Metal mounting plate 400x500	NSYMB4500	
Mounting	DNV 25x7.5 rail for box 150	NSYANM2150R200
	DNV 25x7.5 rail for box 200	NSYANM2200R200
	DNV 25x7.5 rail for box 250	NSYANM2250R200
	DNV 25x7.5 rail for box 300	NSYANM2300R200
	DNV 25x7.5 rail for box 400	NSYANM2400R200
	DNV 25x7.5 rail for box 500	NSYANM2500R200
	DNV 25x7.5 rail for box 600	NSYANM2600R200
	DNV 25x7.5 rail for box 800	NSYANM2800R200



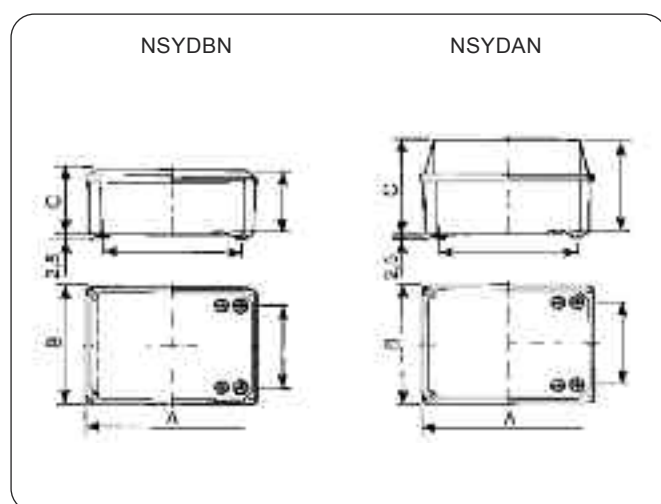
## NSYD Series IP-55 Junction Boxes

Steel boxes made of sheet steel protected internally and externally with polyester-epoxy paint to light grey RAL7035 texturised.

- Without knock-outs:  
NSYDBN with low lid and NSYDAN with high lid.
- PVC sealing gasket on models up to 20/15 and rubber type for 25/20, 30/25 and 35/30
- There are four M4 threaded holes, blanked with removable bungs for direct fixing of mounting plate
- Direct wall fixing by means of blanked holes to keep the IP rating
- Base-lid safety seals available optionally



NSYD Series IP-55 Junction Boxes						
	External Dimensions (mm)			Models Without Knock-Outs Reference†	Mounting Plates Reference††	Weight (Kg)
	Height (A)	Width (B)	Depth (C)			
Low-Lid Models	85	85	49	NSYDBN88	-	0,18
	105	105	49	NSYDBN1010	-	0,25
	155	105	61	NSYDBN1510	NSYPMD1510	0,38
	206	156	83	NSYDBN2015	NSYPMD2015	1
	256	206	93	NSYDBN2520	NSYPMD2520	1,5
	307	257	116	NSYDBN3025	NSYPMD3025	3,3
High-Lid Models	357	307	136	NSYDBN3530	NSYPMD3530	4,8
	155	105	88	NSYDAN1510	NSYPMD1510	0,45
	206	156	122	NSYDAN2015	NSYPMD2015	1,2
	256	206	140	NSYDAN2520	NSYPMD2520	1,9
	307	257	174	NSYDAN3025	NSYPMD3025	4
	357	307	210	NSYDAN3530	NSYPMD3530	5,8



\* Dimensions (mm)

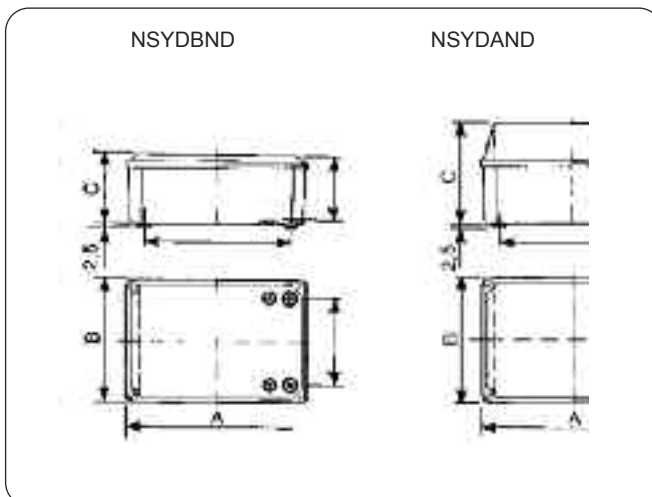
## NSYDX Series IP-55 Junction Boxes

Steel hinged boxes made of sheet steel protected internally and externally with polyester-epoxy paint to light grey RAL-7035 texturised.

- Without knock-outs:  
NSYDBNX with low lid and NSYDANX with high lid.
- Boxes fitted with sealing gasket and M4 threaded holes blanked with removable bungs for fixing of mounting plate and or general equipment.
- Standard double bar sealable lock operated with wing key (standard supply). Affixing this key to the lock will transform it to handle lock. See other lock transformations available.



NSYDX Series IP-55 Junction Boxes						
	External Height (A)	Dimensions (mm) Width (B)	Depth (C)	Models Without Knock-Outs Reference*	Mounting Plates Reference**	Weight (Kg)
Low-Lid Models	206	156	83	NSYDBN2015D	NSYPMD2015	1
	256	206	93	NSYDBN2520D	NSYPMD2520	1,5
	307	257	116	NSYDBN3025D	NSYPMD3025	3,3
	357	307	136	NSYDBN3530D	NSYPMD3530	4,8
High-Lid Models	206	156	122	NSYDAN2015D	NSYPMD2015	1,2
	256	206	140	NSYDAN2520D	NSYPMD2520	1,9
	307	257	174	NSYDAN3025D	NSYPMD3025	4
	357	307	210	NSYDAN3530D	NSYPMD3530	5,8



\* Dimensions (mm)



### Vitaro

- Universal enclosure system
  - 19" enclosure
  - universal enclosure
  - desktop enclosure 95 HP
  - wall mounting enclosure
- Extremely short assembly time
- Special fixing system, no screws required for assembly
- Protection system IP 20



### Zenith

- Striking design
- Invisible ventilation
- Integrated handle section
- 1/2 19" version available
- Protection system IP 42/20



### Berlin

- Light construction
- Integrated handle bar
- Protection system IP 30/20



### ApraTek

- Soldered welded construction for high mechanical requirements
- Integrated handle
- Protection system IP 20



### ApraLITE

- Quickly dismountable
- Light construction
- 1/2 19" version available
- 1/2 19" version available
- Protection system IP 30/20



### 19" Protection Case

- Protection System IP54
- Robust Construction
- A desk top or wall mounting enclosure





### Apraline

- Removable cover parts
- Integrated handle
- Also available as a desktop enclosure
- Protection system IP 30/20



### Tamago

- Stylish design
- Protected apra-lock locking system
- Also available as desktop enclosure
- Protection system IP 40/20



### Customised 19" Enclosures

- We develop the optimal 19" Enclosure based on your specific demands
- Or we produce according to your drawings



### Wall-Mounting Enclosure 'Flex 310'

- Quickly dismantable
- Light construction
- 1/2 19" version available
- 1/2 19" version available
- Protection system IP 30/20

For further information on any of the Enclosures from this range please contact our customer services team on -

UK +44(0) 1922 458 151 **Belfast** +44(0) 2890 775 005 **Dublin** +353(0) 1626 8267

## BRES Range of Wall Mounting Glass Fibre Polyester Enclosures to IP66 IK10

### Features:

A range of enclosures made from reinforced polyester with 30% glass fibre which gives high resistance against impact together with being lighter than steel enclosures but giving the same mechanical resistance. Particularly suitable for mounting electrical or electronic equipment in aggressive environments where polyester offers the best quality and a longer life span.

### Benefits:

- Heat moulded polyester enclosures to RAL7035
- Self-extinguishing material as per ASTM D635
- Maximum working temperature ranges from  $-30^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$
- Resistant against rusting and corrosion by chemical or atmospheric agents
- Its light weight makes them easier to move around and install
- High mechanical resistance against impact
- Door hinges allow more than a  $180^{\circ}$  opening
- Designed to be used both indoors and outdoors

BRES Wall Mounting Accessories			
External Dimensions (mm)			
Ref	H	W	Description
PBP325	300	250	Polyester Back Plate
PBP43	400	300	Polyester Back Plate
PBP44	400	400	Polyester Back Plate
PBP54	500	400	Polyester Back Plate
PBP64	600	400	Polyester Back Plate
PBP65	600	500	Polyester Back Plate
PBP86	800	600	Polyester Back Plate
PBM325	300	250	Metal Back Plate
PBM43	400	300	Metal Back Plate
PBM44	400	400	Metal Back Plate
PBM54	500	400	Metal Back Plate
PBM64	600	400	Metal Back Plate
PBM65	600	500	Metal Back Plate
PBM86	800	600	Metal Back Plate
PIU43	400	300	Internal Door*
PIU44	400	400	Internal Door*
PIU54	500	400	Internal Door*
PIU64	600	400	Internal Door*
PIU65	600	500	Internal Door*
PIU86	800	600	Internal Door*
UA-230x100	Connecting flange for BRES325/BRES43		
UA-350x150	Connecting flange for BRES43/BRES86		
OFM14	Wall Mounting Kit		
CML12	HTBRES Key and Lock		
SDP200	Adjustable bracket back plate for 200mm		
SDP230	Adjustable bracket back plate for 230mm		
SDP300	Adjustable bracket back plate for 300mm		
DVMP	Vent Device		
CBC-13	Padlock Device (chrome)		
CBC13INOX	St St Padlock device		

\* Internal door available fitted on request



BRES Plain Door Wall Mounting Enclosures to IP66			
External Dimensions (mm)			
Ref	H	W	D
BRES325	300	250	140
BRES43	400	300	200
BRES44	400	400	200
BRES54	500	400	200
BRES64	600	400	230
BRES65	600	500	230
BRES83	800	300	230
BRES86	800	600	300
BRES108*	1000	800	300

\* available mid 2014

BRES Glazed Door Wall Mounting Enclosures to IP66			
External Dimensions (mm)			
Ref	H	W	D
BRES325P	300	250	140
BRES43P	400	300	200
BRES44P	400	400	200
BRES54P	500	400	200
BRES64P	600	400	230
BRES65P	600	500	230
BRES86P	800	600	300



## BRES Range of Wall Mounting Glass Fibre Polyester Enclosures with 3 point locking system to IP66

### Features:

A range of enclosures made from reinforced polyester with 30% glass fibre and a 3 point locking system. Also available with a glazed door.

The 3 point locking system offers greater security and the facility to use a padlock to secure the door.



BRES Plain Door Wall Mounting Enclosure to IP66 with 3 Point Locking System				
Plain Door	Glazed Door	H	W	D
BRES43-3L	BRES43P-3L	400	300	200
BRES44-3L	BRES44P-3L	400	400	200
BRES54-3L	BRES54P-3L	500	400	200
BRES64-3L	BRES64P-3L	600	400	230
BRES65-3L	BRES65P-3L	600	500	230
BRES83-3L	BRES83P-3L	800	300	230
BRES86-3L	BRES86P-3L	800	600	300

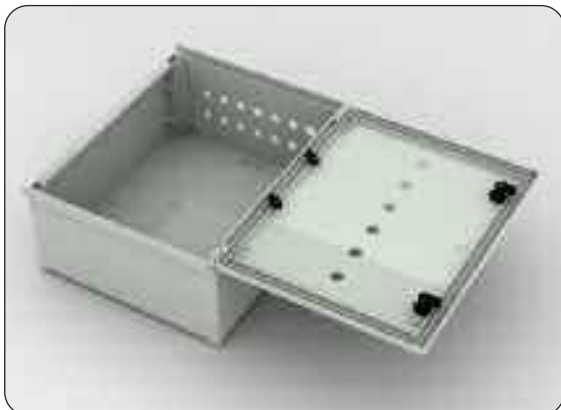
BRES Plinths - Suitable for all BRES Enclosures		
Ref	H x W x D	Use with
F0-44	500x360x170	For use with Bres44
F1-44	750x365x170	For use with Bres45
F2-44	1000x365x170	For use with Bres46
F0-54	500x360x170	For use with Bres54
F1-54	750x365x170	For use with Bres54
F2-54	1000x365x170	For use with Bres54
F0-64	500x360x200	For use with Bres64
F1-64	750x365x200	For use with Bres64
F2-64	1000x365x200	For use with Bres64
F0-65	500x360x200	For use with Bres65
F1-65	750x365x200	For use with Bres65
F2-65	1000x365x200	For use with Bres65
F0-86	500x360x300	For use with Bres86
F1-86	750x365x300	For use with Bres86
F2-86	1000x365x300	For use with Bres86

## Customised BRES Enclosures

We can adapt the BRES range of enclosures fully customised to meet your requirements.

So if its cut-outs for glands, push buttons or even viewing windows for metering applications we can customize the BRES Enclosure for you.

It might be a fully or partly populated solution you are looking for, if so for more information or technical questions please contact our sales office.



### NSYPLM IP-66

#### Glass-fibre reinforced polyester cabinets.

- One-piece monoblock body
- Colour grey, RAL7032
- Completely reversible
- Designed for use both indoors and outdoors.
- Wide range of accessories allowing for their use in distribution, control and measurement panels for industrial and recreational installations
- Inserts located at the front of the cabinet for fixing of distribution chassis and internal door
- Self-extinguishing
- Maximum working temperature ranges from -50°C to 150°C
- Resistant to principal chemical and atmospheric agents
- Corrosion resistant
- Stable to ultra-violet rays
- Prepared for double insulated boards in accordance with ICE 439-1 (EN 60.439.1) standard
- High resistance to mechanical impacts IK-10 (20 J) in accordance with EN 50.102
- UL approval in accordance with UL 50, grades Nema 4X and 12
- NSYMM Mounting Plates (see page 85)



**NSYPLM IP66 Wall Mounted Enclosures**

External Dimensions				
Height	Width	Depth	Plain Door	Transparent Door
310	215	160	NSYPLM32 *	NSYPLM32T *
308	255	160	NSYPLM3025	NSYPLM3025T
430	330	200	NSYPLM43	NSYPLM43T
530	430	200	NSYPLM54	NSYPLM54T
647	436	250	NSYPLM64	NSYPLM64T
747	536	300	NSYPLM75	NSYPLM75T
847	636	300	NSYPLM86	NSYPLM86T
1056	852	350	NSYPLM108 **	NSYPLM108T **

\*Model NSYPLM32 in polycarbonate.

\*\*4-point locking system enclosure.

#### Wall mounting set

Assembly for fixing the cabinet to the wall. It is attached from the outside to the rear of the cabinet using inserts and M8 screws (included in the standard supply). The PLM-32 model is fixed by self-tapping screws. The fixing pieces can be located either vertically or horizontally. The assembly is not included in the standard supply.



PLM IP-66 Wall Mounting Set		Dimensions PF/PLM			
To Fit Enclosures	Reference Insulation	Horizontal Position		Vertical Position	
		Height (H1)	Width (H2)	Height (V1)	Width (V2)
NSYPLM-32	PFPLM32/NSYPFPLM32	247	239	334	152
NSYPLM-3025	PFPLM/NSYPFPLM	250	332	385	197
NSYPLM-43	PFPLM/NSYPFPLM	355	360	490	225
NSYPLM-54	PFPLM/NSYPFPLM	455	460	590	325
NSYPLM-64	PFPLM/NSYPFPLM	555	465	690	330
NSYPLM-75	PFPLM/NSYPFPLM	655	565	790	430
NSYPLM-86	PFPLM/NSYPFPLM	755	665	890	530
NSYPLM-108	PFPLM/NSYPFPLM	995	885	1090	750

#### Locks for PLM

Double bar standard lock, with stainless zinc alloy inserts

Operated by:

- LDB 5 key (according to DIN 43668)

Optional Lock Inserts To Transform The Standard Lock		
Characteristics	Key Operated Product Ref	Reference
6 mm square lock	LC-7	NSYTC6CRN
7 mm square lock	LC-7	NSYTC7CRN
8 mm square lock	LC-8	NSYTC8CRN
6,5 mm triangular lock	LT-6,5	NSYTT7CRN
8 mm triangular lock	LT-8	NSYTT8CRN
wing key lock		NSYTL405PLM
stainless steel padlock		NSYKPLM
double back wing key		NSYCDBPLM



## NSYPLA Hot-moulded Reinforced Polyester Cabinets

- Grey to RAL 7032.
- Conforms to general rules for empty enclosures established by standard EN 50.298
- IP-65 according to IEC (EN 60.529)
- High degree of resistance to mechanical impacts IK10(20J) according to EN 50.102
- Self-extinguishing according to IEC 695-2-1(960°)
- Wide range of operating temperatures -50°C to 150°C
- Resistance to main chemical agents and corrosive environments.
- Resistant to UV rays
- Suitable for double insulation assemblies according to standard IEC 439-1(EN 60.439.1)
- Reversible door with 120° opening. Max. load 30 Kg/m<sup>2</sup>
- Lock outside the gasketed area with 2-point locking system on cabinets up to 750 mm high and 4-point as from 1000 mm
- Bosses for M8 inserts inside of the cabinet for direct fixing of mounting plates, accessories, etc.



### Configuration

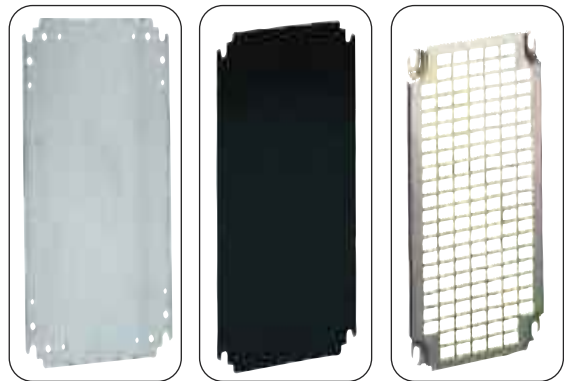
- Cabinet with closed top and bottom, fitted with watertight gasket
- Reversible plain door with two hinges in cabinets up to 750 high and 4 in cabinets as from 1000 mm
- Double bar lock operated by means of NSYLDBS, other transformations and handle locks available
- Two-door cabinets include upright for support

Reference	Nominal Dimensions (mm)			No of Doors	Reference	Nominal Dimensions (mm)			No of Doors
	Height	Width	Depth			Height	Width	Depth	
NSYPLA553	500	500	320	1	NSYPLA10103	1000	1000	320	2
NSYPLA554	500	500	420	1	NSYPLA10104	1000	1000	420	2
NSYPLA573	500	750	320	1	NSYPLA10123	1000	1250	320	2
NSYPLA574	500	750	420	1	NSYPLA10124	1000	1250	420	2
NSYPLA5103	500	1000	320	2	NSYPLA1253	1250	500	320	1
NSYPLA5104	500	1000	420	2	NSYPLA1254	1250	500	420	1
NSYPLA5123	500	1250	320	2	NSYPLA1273	1250	750	320	1
NSYPLA5124	500	1250	420	2	NSYPLA1274	1250	750	420	1
NSYPLA753	750	500	320	1	NSYPLA12103	1250	1000	320	2
NSYPLA754	750	500	420	1	NSYPLA12104	1250	1000	420	2
NSYPLA773	750	750	320	1	NSYPLA12123	1250	1250	320	2
NSYPLA774	750	750	420	1	NSYPLA12124	1250	1250	420	2
NSYPLA7103	750	1000	320	2	NSYPLA1553	1500	500	320	1
NSYPLA7104	750	1000	420	2	NSYPLA1554	1500	500	420	1
NSYPLA7123	750	1250	320	2	NSYPLA1573	1500	750	320	1
NSYPLA7124	750	1250	420	2	NSYPLA1574	1500	750	420	1
NSYPLA1053	1000	500	320	1	NSYPLA15103	1500	1000	320	2
NSYPLA1054	1000	500	420	1	NSYPLA15104	1500	1000	420	2
NSYPLA1073	1000	750	320	1	NSYPLA15123	1500	1250	320	2
NSYPLA1074	1000	750	420	1	NSYPLA15124	1500	1250	420	2

## Mounting Plates for NSYPLA








A complete range of mounting plates comprising 3 versions, able to provide all the mountings needed for this installation system.

- Standard zinc coated steel plates
- Insulating plates in bakelite
- Universal plates for rapid fitting of switch gear, manufactured in dichromated zinc coated steel
- NSYPMM stocked



Mounting Plates				
External Dimen (mm)				
Height	Width	Metal Mounting Plate	Insulating Perforated Mounting Plate	Perforated Mounting Plate
500	500	NSYPMM55	NSYPMB55	NSYPMR55
	750	-	-	NSYPMR57
	1000	NSYPMM510	NSYPMB510	NSYPMR55+NSYPMR55
750	1250	NSYPMM55+NSYPMM75	NSYPMB55+NSYPMB75	NSYPMR55+NSYPMR57
	500	NSYPMM75	NSYPMB75	NSYPMR75
	750	NSYPMM77	NSYPMB77	NSYPMR77
	1000	NSYPMM710	NSYPMB710	NSYPMR75+NSYPMR75
1000	1250	NSYPMM712	NSYPMB712	NSYPMR75+NSYPMR77
	500	NSYPMM105	NSYPMB105	NSYPMR105
	750	NSYPMM107	NSYPMB107	NSYPMR107
	1000	NSYPMM1010	NSYPMB1010	NSYPMR105+NSYPMR105
1250	1250	NSYPMM1012	NSYPMB1012	NSYPMR105+NSYPMR107
	500	NSYPMM125	NSYPMB125	NSYPMR125
	750	NSYPMM127	NSYPMB127	NSYPMR127
	1000	NSYPMM1210	NSYPMB1210	NSYPMR125+NSYPMR125
1500	1250	NSYPMM1212	NSYPMB1212	NSYPMR125+NSYPMR127
	500	NSYPMM155	NSYPMB155	NSYPMR155
	750	NSYPMM157+NSYPMM157	NSYPMB157	NSYPMR157
	1000	NSYPMM1510	NSYPMB1510	NSYPMR155+NSYPMR155
	1250	NSYPMM1512	NSYPMB1512	NSYPMR155+NSYPMR157

### Standard Lock Options for Closed Top NSYPLA Enclosures

Converting the Standard To A Standardised Variant		
Characteristics	Key Operated Product Ref	Reference
6 mm Square Key Lock	 LC-7	NSYTC6CRN
7 mm Square Key Lock	 LC-7	NSYTC7CRN
8 mm Square Key Lock	 LC-8	NSYTC8CRN
6 mm Triangular Key Lock	 LT-6,5	NSYTT6CRN
7 mm Triangular Key Lock	 LT-8	NSYTT8CRN
8 mm Triangular Key Lock	 LT-8	NSYTL405PLM
Stainless Steel Padlock		NSYBCPLA
Double Bar Lock		NSYTDDBPLA

## ART range of Fibreglass Reinforced Polyester Enclosures to RAL7035 - IP56

### Features & Benefits

- Manufactured from fibreglass reinforced Polyester to RAL7035, light grey colour
- Resistant to corrosion
- Self extinguishing material in accordance to UNE20-672-83/2-1
- Non hygroscopic material with minimum water absorption
- Maximum working temperatures  $-20^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$
- Excellent resistance to corrosion and chemical atmospheres, impacts and ultraviolet rays.
- Door hinges allows more than 180o opening
- Natural ventilation, thus preventing condensation
- Triple action closing of the door, by means of an aluminium plate
- Excellent surface finish
- Can be mounted on the wall, ground or on a base
- Good for inside or outside use
- Aesthetically pleasing to the eye

### Applications

Chemical industry	Electricity supply	Traffic lights
Food industry	Water supply	Campsites and leisure/sports
Petrochemical Industry	Gas supply	Paper mills
Telephone network	Railways	Textile industry
Public lighting	Airports	

### Mounting Plates & Accessories

Ref	For Enclosure	Description
PMM55	ART55	Metal Mounting Plate
PMM57	ART57	Metal Mounting Plate
PMM75	ART75	Metal Mounting Plate
PMM77	ART77	Metal Mounting Plate
PMM107	ART107	Metal Mounting Plate
PMP55	ART55	Polyester Mounting Plate
PMP57	ART57	Polyester Mounting Plate
PMP75	ART75	Polyester Mounting Plate
PMP77	ART77	Polyester Mounting Plate
PMP107	ART107	Polyester Mounting Plate
	SDP300T	Movable Support
	CML12T	Cylinder lock with key
	CTR11T	Triangular bolt lock
	CCU-08T	Square bolt lock



Locking System

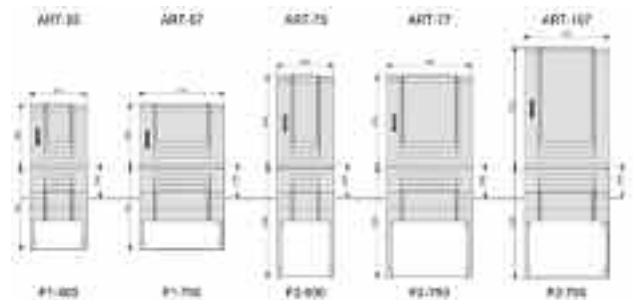


Movable Support



ART range of Polyester Enclosures

External Dimensions mm			
Ref	H	W	D
ART55	500	500	300
ART57	500	750	300
ART75	750	500	300
ART77	750	750	300
ART105	1000	500	300
ART107	1000	750	300



Mounting Plates	Size	Qty
PMP55	400 x 400	1
PMP57	400 x 650	1
PMP55	650 x 400	1
PMP75	400 x 400	1
PMP77	650 x 650	1
PMP105	900 x 400	1
PMP107	900 x 650	1

## CA Range of Modular Polyester/Polycarbonate Enclosures to IP66



### Features:

A range of reinforced polyester Polyamid RAL7035.

### Benefits:

- Stabilized polycarbonate lids, ultraviolet resistant
- Lids with holes for wire sealing
- High mechanical resistance against impacts
- Manufactured from non hygroscopic materials, water absorption practically nil
- Good stray current resistance
- Resistance to corrosion by chemicals
- Compact and light making it easy to install
- Self extinguishing materials as per UNE53315 and ASTM D635.
- Maximum working temperature  $-30^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$
- Nominal intensity: 1,000A
- Nominal voltage: 660V
- Dielectric rigidity: > at 5,000V
- Insulation resistance > at 5 M  $\Omega$

### Special features of the enclosure available with Transparent Lid or Opaque Lid

- Fibre glass reinforced rear polyester panel, to RAL7035
- Lid is made of colourless polycarbonate
- IP65 protection degree against dust, water and impacts
- Excellent for outdoor use

CA Modular Polyester Enclosures to IP66 with Transparent Lid			
External Dimensions (mm)			
Ref	W	H	D
CA1515	135	135	130
CA215	180	135	130
CA220	180	180	130
CA315	270	135	130
CA32	270	180	170
CA33	270	270	170
CA42	360	180	170
CA43	360	270	170
CA43A	360	270	205
CA44	360	360	170
CA44A	360	360	205
CA63	540	270	170
CA63A	540	270	205
CA64	540	360	170
CA64A	540	360	205
CA66	540	540	170
CA66A	540	540	205
CA84A	720	360	205
CA86A	720	540	205

Mounting Plates & Accessories		
Ref	For use on	Description
PP1515	CA1515	Polyester Back Plate
PP215	CA215	Polyester Back Plate
PP220	CA220	Polyester Back Plate
PP315	CA315	Polyester Back Plate
PP32	CA32	Polyester Back Plate
PP33	CA33	Polyester Back Plate
PP42	CA42	Polyester Back Plate
PP43	CA43	Polyester Back Plate
PP44	CA44	Polyester Back Plate
PP63	CA63	Polyester Back Plate
PP64	CA64	Polyester Back Plate
PP66	CA66	Polyester Back Plate
PP84	CA84	Polyester Back Plate
PP86	CA86	Polyester Back Plate
OFC-4000	CA1515/CA315	Wall Fixing Lug
OFC-400	CA32/CA86	Wall Fixing Lug
TFT4000	CA1515/CA315	Spare Screws for Lid
TFT400	CA32/CA86	Spare Screws for Lid
BO-BRE	CA32/CA86A	Ext. Hinge
DV-M		Vent Device (Small)
DV-G		Vent Device (Large)

CA Modular Polyester Enclosures to IP66 with Opaque Lid			
External Dimensions (mm)			
Ref	W	H	D
CA1515S	135	135	130
CA215S	180	135	130
CA220S	180	180	130
CA315S	270	135	130
CA32S	270	180	170
CA33S	270	270	170
CA42S	360	180	170
CA43S	360	270	170
CA43AS	360	270	205
CA44S	360	360	170
CA44AS	360	360	205
CA63S	540	270	170
CA63AS	540	270	205
CA64S	540	360	170
CA64AS	540	360	205
CA66S	540	540	170
CA66AS	540	540	205
CA84AS	720	360	205
CA86AS	720	540	205

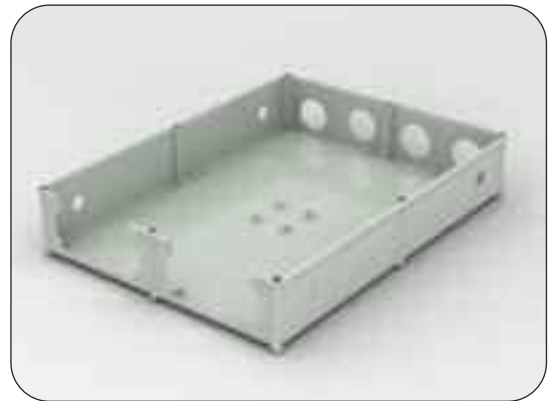


## Customised CA Enclosures

We can adapt the CA range of enclosures fully customised to meet your requirement.

So if its cut-outs for glands, push buttons or even viewing windows for metering applications we can customise the CA enclosure for you.

It might be a fully or partly populated solution you are looking for, if so for more information or technical questions please contact our customer service department



## NSYPLS Polyester/Polycarbonate Modular Boxes System 27 IP65

Range of insulated modular boxes with bases made of hot moulded fibreglass reinforced polyester and lids made of polycarbonate or polyester depending on models. Boxes NSYPLSC are with transparent polycarbonate lid, boxes NSYPLSC with opaque polycarbonate lid. Boxes NSYPLSP are with both lid and base made of fibreglass reinforced polyester.

- Light grey colour similar to RAL 7032
- Modular design that allows the joining boxes to form assemblies in addition to the use as a single box
- Self-extinguishing, double insulation
- Dielectric rigidity >5 kV, insulating resistance >5MW
- Fully gasketed lids
- Operating temperature between -30°C and 120°C for types NSYPLS and up to 150°C for types NSYPLSP
- Good resistance to UV and chemicals, corrosion free, very easy machining
- Standard locking through insulated slotting screws



Polycarbonate Transparent Low Lid

Reference	Height	Width	Depth
NSYPLS1827	180	270	180
NSYPLS2727	270	270	180
NSYPLS2736	270	360	180
NSYPLS2754	270	540	180
NSYPLS3636	360	360	180
NSYPLS3654	360	540	180
NSYPLS5454	540	540	180

Polycarbonate Transparent High Lid

Reference	Height	Width	Depth
NSYPLS2727A	270	270	230
NSYPLS2736A	270	360	230
NSYPLS2754A	270	540	230
NSYPLS3654A	360	540	230
NSYPLS5454A	540	540	230
NSYPLS3672A	360	720	230
NSYPLS5472A	540	720	230

Polyester Lid Boxes

Reference	Height	Width	Depth
NSYPLS1827	180	270	180
NSYPLS2727	270	270	180
NSYPLS2736	270	360	180
NSYPLS2754	270	540	180
PNSYPLS3636	360	360	180
NSYPLS3654	360	540	180
NSYPLS5454	540	540	180

### Mounting Plate

Steel Mounting Plates

Reference	Height	Width	Thickness
NSYPMM1827	140	230	2
NSYPMM2727	230	230	2
NSYPMM2736	230	320	2
NSYPMM2754	230	500	2
NSYPMM3636	320	320	2
NSYPMM3654	320	500	2
NSYPMM5454	500	500	2
NSYPMM3672	320	680	2.5
NSYPMM5472	500	680	2.5

Polycarbonate Opaque Low Lid

Reference	Height	Width	Depth
NSYPLSC1827	180	270	180
NSYPLSC2727	270	270	180
NSYPLSC2736	270	360	180
NSYPLSC2754	270	540	180
NSYPLSC3636	360	360	180
NSYPLSC3654	360	540	180
NSYPLSC5454	540	540	180

Polycarbonate Opaque High Lid

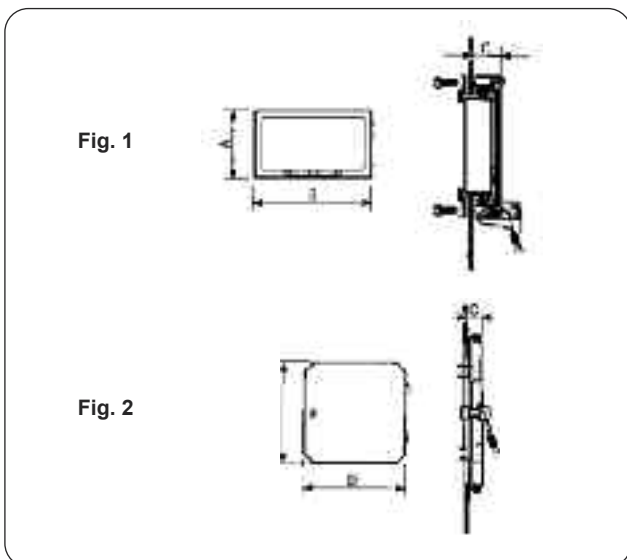
Reference	Height	Width	Depth
NSYPLSC2727A	270	270	230
NSYPLSC2736A	270	360	230
NSYPLSC2754A	270	540	230
NSYPLSC3654A	360	540	230
NSYPLSC5454A	540	540	230
NSYPLSC3672A	360	720	230
NSYPLSC5472A	540	720	230

Polyester Mounting Plates

Reference	Height	Width	Thickness
NSYPMA1827	140	230	3
NSYPMA2727	230	230	3
NSYPMA2736	230	320	3
NSYPMA2754	230	500	3
NSYPMA3636	320	320	3
NSYPMA3654	320	500	4
NSYPMA5454	500	500	4
NSYPMA3672	320	680	4
NSYPMA5472	500	680	4

## Hinged Windows

Designed for viewing of internal equipment and easy access to it. Maintain IP-65 protection. Made of transparent polycarbonate.



### Hinged Windows

Reference Standard Lid	Reference High Lid	No. of poles 18 (mm)	fig.	A	B	C Standard Lid	C High Lid
NSYVA272M	NSYVA272MA		2	1	78	60	15 25
NSYVA274M	NSYVA274MA		4	1	78	95	15 25
NSYVA276M	NSYVA276MA		6	1	78	130	15 25
NSYVA278M	NSYVA278MA		8	1	78	165	15 25
NSYVA2710M	NSYVA2710MA	10	1	78	200	15	25
NSYVA2712M	NSYVA2712MA		12	1	78	235	15 25
NSYVA2716M	-	16	2	195	165	13	-
NSYVA2724M	-	24*	2	196	235	13	-

\* Rows of 12 modules each.

## Hinges

For fixing directly to any type of box.

- External hinges, opening approximately 180°

### Hinges

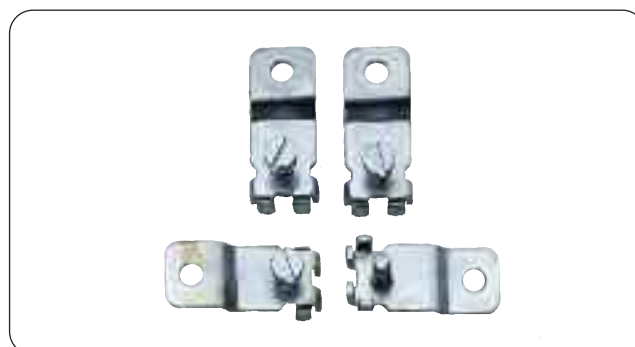
Reference	Description	Pack Qty
NSYBE27	External Hinge	2



## Wall Fixing Kit

### Wall Fixing Kit

Reference	Description	Pack Qty
NSYPF27N	Fixing Kit	4



## NSYTBP/NSYTBS Industrial Boxes

### Features:

- Cover closes by 4 fast coarse pitch screws (flat head screwdriver) assuring IP66 protection.
- From dimensions 138mm x 93 mm, standard screws (flat head screwdriver) can be replaced by other standardised screw head shapes.
- 3 ways of wall fixing: outside usable area, sealed, via 4 corners at box corners, through box via 2 or 4 knock-out oblong holes, with fixing lugs.
- Equipment fixing studs in box cover and body for self-tapping screws Ø 4 mm ref.: TOR/IB (not provided).
- Adaptable hinges on all 20 and 40 mm depth covers.



### Technical Characteristics:

- IP66 to standard IEC 60529.
- NEMA 4 & 4X to NEMA 250.
- Class II to IEC 536.
- Colour: box grey RAL7035, covers smoked transparent.
- Halogen-free insulating plastic materials.
- Resistance to chemical and atmospheric agents.
- According to standard EN 62208.

- PC Boxes.
- IK08 (5J) to EN 50102.
- Incandescent wire: 750°C.
- Operating temperature: -25°C to +80°C
- Installation temperature: -15°C to +60°C

Industrial Boxes				Ref NSYTBS		Ref NSYTBP	
External dimensions (mm)				Opaque Cover	Transparent Cover	Opaque Cover	Transparent Cover
Height	Width	Depth	Cover Height				
74	74	54	10	NSYTBS775	-	NSYTBP775	-
89	89	54	10	NSYTBS885	-	NSYTBP885	-
116	74	62	10	NSYTBS1176	-	NSYTBP1176	-
116	116	62	10	NSYTBS11116	-	NSYTBP11116	-
138	93	72	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	121	105	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
193	164	87	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
193	164	105	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	105	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	60	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
291	241	128	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
341	291	168	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

### NSYTBS Boxes

- ABS
- IK07 (2J) to EN 50102
- Incandescent wire: 650°C to IEC 60695-2-11
- Operating Temp: -25...+60°C
- Installation Temp: -15...+40°C

### NSYTBP Boxes

- PC
- IK08 (5J) to EN 50102
- Incandescent wire: 750°C
- Operating Temp: -25...+80°C
- Installation Temp: -15...+60°C

For mounting plates and hinges please contact customer services on - **01922 458 151**




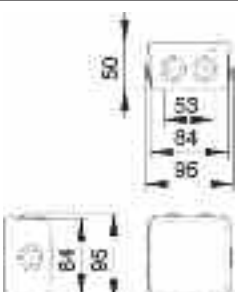

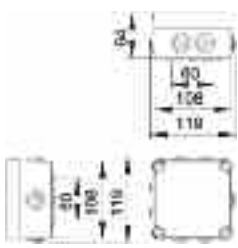
## Light Range Junction Boxes to IP65/IP67

These junction boxes have an ample internal space for installation of mechanism of larger size, and they are available with transparent and opaque lids.

All enclosures are adapted to the metric system and include supports for installation of DIN rail and mounting plates on the base.

- Degree of protection IP65/IP67
- Resistance to impact IK07
- Auto-extinguishing degree HB (UL94)
- Test of resistance to glow wire from 650°C in 55DS and 55GS types and 850°C in 55DA and 55GA types.
- Ball pressure test 70°C
- Also available halogen free
- Box and opaque lid material is PS
- Transparent lid material is polycarbonate (UV protected)



		<p><b>Reference</b></p> 
	<p>With conical cable glands 84 x 84 x 50mm</p>	
	<p><b>Reference</b></p>	
	<p>EPO88</p>	
	<p>With conical cable glands 95 x 95 x 50mm</p>	
<p>IP54</p>	<p>EXO88</p> <p>With premoulded cable entries 95 x 95 x 50mm</p>	<p>Cable Entries: 7 x M25</p>
	<p><b>Reference</b></p>	
	<p>EV111 - IP65</p>	
	<p>With conical cable glands 119 x 119 x 64mm</p>	
	<p>EX111 - IP65</p>	
	<p>With pre-moulded cable entries 119 x 119 x 64mm</p>	
<p>IP65/67</p>	<p>EL111 - IP67</p> <p>Plain Sides 108 x 108 x 64mm</p>	<p>Cable Entries: 7 x M25</p>

	<b>Reference</b>		
	EL161		
	Plain sides	Polyester Mounting Plate	
<b>IP67</b>	162 x 116 x 76mm	Ref - 92121	Cable entries: 6 x M25-4 x M40
	<b>Reference</b>		
	EL171		
	Plain sides opaque lid	Polyester Mounting Plate	
<b>IP67</b>	175 x 151 x 95mm	Ref - 92122	Cable entries: 6 x M25-4 x M40
	<b>Reference</b>		
	EL231		
	Plain sides opaque lid	241 x 180 x 95mm	
<b>IP67</b>	ELT231	Polyester Mounting Plate	Cable entries: 4 x M25-6 x M40
	Plain sides, transparent lid	241 x 180 x 95mm	
	Ref - 92124		
	<b>Reference</b>		
	EL322		
	Plain sides, opaque lid	328 x 239 x 120mm	
<b>IP67</b>	ELT322	Polyester Mounting Plate	Cable entries: 12 x M40
	Plain sides transparent lid	328 x 239 x 120mm	
	Ref - 92128		
	<b>Reference</b>		
	GSL171		
	Plain sides, opaque lid	175 x 151 x 155mm	
<b>IP65</b>	GSLT171		Cable entries: 6 x M25-4 x M40
	Plain sides transparent- lid	175 x 151 x 155mm	
	<b>Reference</b>		
	GSL231		
	Plain sides, opaque lid	241 x 180 x 175mm	
<b>IP65</b>	GSLT231		Cable entries: 4 x M25-6 x M40
	Plain sides transparent- lid	241 x 180 x 175mm	
	<b>Reference</b>		
	GSL322		
	Plain sides, opaque lid	328 x 239 x 188mm	
<b>IP65</b>	GSLT322		Cable entries: 12 x M40
	Plain sides transparent- lid	328 x 239 x 188mm	

**A Range IP44, IP55, IP56 Junction Boxes**

- Plastic halogen material
- High performing
- Glow wire tested to IEC95-2-1
- AS boxes to 650c, ASH to 950c

<b>With Stepped Glands and Press Fit Lids IP-44</b>	
Reference	Description
A1	65 x 35 (round)
A2	80 x 35 (round)
A3	80 x 80 x 40



<b>With smooth Walls and Grey Screw on Lids IP56</b>	
Reference	Description
AS05	123 x 83 x 62
AS15	103 x 103 x 62
AS25	154 x 113 x 77
AS35	193 x 144 x 79
AS45	242 x 190 x 90
AS55	305 x 225 x 126
AS65	390 x 310 x 128
*Lid fixing by means of plastic screws c/w box	



<b>With Smooth Walls and Transparent Screw on Lids IP56</b>	
Reference	Description
AS35T	190 x 140 x 70
AS45T	240 x 190 x 90
AS55T*	300 x 220 x 150
AS65T*	380 x 300 x 150
*Lid fixing by means of plastic screws c/w box	



<b>High Lid with Smooth Walls and Grey Screw Lids IP55</b>	
Reference	Description
ASH15	110 x 110 x 112
ASH25	150 x 110 x 150
ASH35	150 x 150 x 150
ASH45	220 x 150 x 150
ASH55	300 x 220 x 150
*Lid fixing by means of plastic screws c/w box	



<b>Metal Plate</b>	
Reference	Description
PB1	for boxes AS3 - 35 - 35T
PB2	for boxes AS4 - 45 - 45T
PB3	for boxes AS5 - 55 - 55T
PB4	for boxes AS6 - 65 - 65T
PB5	for boxes ASH15 - ASH15T
PB6	for boxes ASH25 - ASH25T
PB7	for boxes ASH35 - ASH35T
PB8	for boxes ASH45 - ASH45T
PB9	for boxes ASH55 - ASH55T



### NEW ECOLOGY Watertight Distribution Enclosures


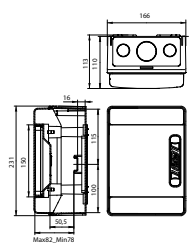
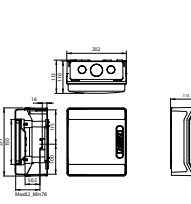

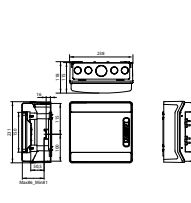
The new ECOLOGY range of distribution enclosures have a completely new and innovative shape, reaching the highest level of quality and design.

Made from halogen free long-lasting thermoplastic ABS. They have a large capacity for wiring and also the possibility to place the DIN rail in two height positions. Mounting plates and other accessories can be installed on the base inside.


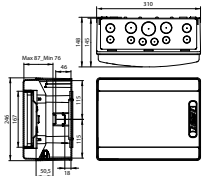



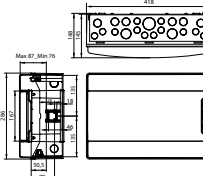
#### Technical Data:


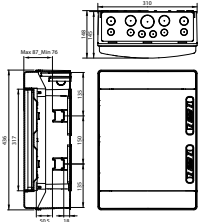
- IP65
- IK08 resistance to impact
- HB (UL94) auto-extinguishing degree
- 650°C test of resistance to glow wire
- 70°C ball pressure test
- -25°C/+40°C temperature range
- Halogen free material ABS
- Earth and neutral bars included


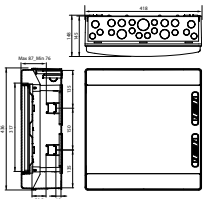
	<b>Reference</b>		
	CDN4PT/RR		
	Grey with transparent window		
	Material ABS		
	Size: H231 x W166 x D113		
<b>IP65</b>	<b>Type:</b> 65S04 - 1 x 4 modules DIN Rail Cable entries sup: 2xM25 + 1xM40 inf: 2xM25 + 1xM40 Oblong back: 2xOB25_25		
	<b>Reference</b>		
	CDN6PT/RR		
	Grey with transparent window		
	Material ABS		
	Size: H231 x W202 x D113		
<b>IP65</b>	<b>Type:</b> 65S04 - 1 x 6 modules DIN Rail Cable entries sup: 2xM25 + 1xM40 inf: 2xM25 + 1xM40 Oblong back: 2xOB25_25		
	<b>Reference</b>		
	CDN8PT/RR		
	Grey with transparent window		
	Material ABS		
	Size: H231 x W238 x D118		
<b>IP65</b>	<b>Type:</b> 65S08 - 1 x 8 modules DIN Rail Cable entries sup: 4xM25 + 1xM40 inf: 4xM25 + 1xM40 Oblong back: 2xOB25_25		



	<b>Reference</b>	
	CDN12PT/RR	
	Grey with transparent window	
	Material ABS	
	Size: H246 x W310 x D148	
<b>IP65</b>	<b>Type:</b> 65S12 - 1 x 12 modules DIN Rail Cable entries sup: 6xM20 + 2xM25 + 2xM32 + 1xM40 inf: 6xM20 + 2xM25 + 2xM32 + 1xM40 Oblong back: 2xOB25_32_25	

	<b>Reference</b>	
	CDN18PT/RR	
	Grey with transparent window	
	Material ABS	
	Size: H286 x W418 x D148	
<b>IP65</b>	<b>Type:</b> 65S18 - 1 x 18 modules DIN Rail Cable entries sup: 12xM20 + 6xM25 + 2xM32 + 1xM40 inf: 12xM20 + 4 x M25 + 6xM25 + 2xM32 + 1xM40 int: 4 x M25 Oblong back: 1xOB25_32_25	

	<b>Reference</b>	
	CDN24PT/RR	
	Grey with transparent window	
	Material ABS	
	Size: H436 x W310 x D148	
<b>IP65</b>	<b>Type:</b> 65S24 - 2 x 12(24) modules DIN Rail Cable entries sup: 7xM20 + 2xM25 + 2xM32 + 2xM40 inf: 7xM20 + 2xM25 + 2xM32 + 2xM40 int: 4xM25 Oblong back: 2xOB25_32_25	

	<b>Reference</b>	
	CDN36PT2F/RR	
	Grey with transparent window	
	Material ABS	
	Size: H436 x W418 x D148	
<b>IP65</b>	<b>Type:</b> 65S36 - 2 x 18 (36) modules DIN Rail Cable entries sup: 12xM20 + 6xM25 + 2xM32 + 1xM40 inf: 12xM20 + 4xM25 + 6xM25 + 2xM32 + 1xM40 int: 4xM25 Oblong back: 2xOB25_32_25	



## C Range IP-40, IP-55 Distribution Boards

Surface Mounting Without Door - IP-40		
Reference	Description	Dimensions
CT2	1-2 pole	51 x 130 x 60
CT4	3-4 pole	88 x 130 x 60

Surface Mounting - Complete With Transparent Door - IP40		
Reference	Description	Dimensions
CT5PT	4 + 1 smooth sides	144 x 168 x 94
CT8PT	8 smooth sides	215 x 168 x 94
CT12PT	12 + 1 smooth sides	283 x 168 x 94
CT24PT	24 smooth sides	256 x 326 x 101

Wall Mounting Enclosures - IP-55		
Reference	Description	Dimensions
CT3G	3 pole	83 x 175 x 106
CT5G	5 pole	125 x 175 x 114
CT8G	8 pole	215 x 175 x 114
CT12G	12+1 pole	287 x 200 x 124

Distribution Boards With Provision For CEE Sockets - IP-65		
Reference	Description	Dimensions
CT24GL	24 way	285 x 375 x 136
CT36GL	36 way	285 x 500 x 136

Terminal Bar Supports In Polycarbonate (960°C G.W. Test)		
Reference	Description	Pack Qty
CTR3	For CT5G - CT5SG - CT5GT	10
CTR4	For CT8G - CT8SG - CT8GT - CT12G CT12SG - CT12SG1 - CT12GT	10
CTR5	For CT3G	10

Terminal Bar Supports In Polycarbonate (960°C G.W. Test)		
Reference	Description	Pack Qty
CTR6	For CT24L - CT36L	10
CTR9	For CT5-CT5PT-CT5PT/C ( 1 piece steel + 1 SUM 1)	10
CTR10	For CT8-CT8PT-CT8PT/C ( 1 piece steel + 1 SUM 1)	10
CTR11	For CT12-PT-PT/C ( 1 piece steel + 1 SUM 1)	10
CTR12	For CT24/36-PT-PO-PT/C-PO/C ( 1 piece steel + 1 SUM 2)	10



### Pryma Range



Pryma IP67 enclosures can come either plain or equipped with sockets and wiring, in any combination and without minimum order quantities required. They are sealable, UV protected on windows and also complete with fastening for turning hinges with a locking device to assure their water-tightness.



Manufactured from halogen free long lasting plastic material. Wall mounting screws are placed away from the watertight area (Ref 17.8P and 17.8M). Din rail can be fixed to the frame, and also to the base without the need of screws. Holders are included on the enclosure to fix mounting plates and they are ready for earth and neutral bar installation.



Cable entries are adapted to the metric system and sockets wiring is carried out under electrical engineering preceptives.



- Degree of protection IP67
- Resistance to impact IK08
- Auto-extinguishing degree HB (UL94)
- Test of resistance to glow wire 650°C
- Ball pressure test 70°C



	<b>Reference</b>	
	17.8.P/RR	
	Grey with transparent window	
<b>IP67</b>	204 x 284 x 222mm	1 x 8 modules DIN rail

	<b>Reference</b>	
	17.8.M/RR	
	Grey with transparent window	
<b>IP67</b>	204 x 369 x 222mm	1 x 8 modules DIN rail

	<b>Reference</b>	
	17.12.GM/RR	
	Grey with transparent window	
<b>IP67</b>	279 x 504 x 297mm	1 x 12 modules DIN RAIL

	<b>Reference</b>	
	17.24.GM/RR	
	Grey with transparent window	
<b>IP67</b>	279 x 504 x 297mm	2 x 12 (24) modules DIN RAIL

## CK Range – The range for every need



The CK Range offers a broad range of enclosures, which satisfy every need.

The range consists of:

- boards for modular devices 3-35 modules.
- universal boards for modular devices, power outlets and non modular devices

The range has high performance along with a tastefully designed aesthetic appearance.

### A Complete Range

The CK Range is composed by an overall of 19 watertight enclosures Mini Boards (3-12 mod), Modular Boards (12-54 mod), Mixed Boards and Universal Boards.

The Mini and Modular can receive only modular devices while the Mixed and Universal are conceived to receive within the boards also non modular devices such as voltage transformers, control devices, relay and even electronic circuits.

### High Performance

The CK Range are halogen free and guarantee a high performance due to:

- IP65 degree of protection
- IK09 high impact resistance and resistance to chemical and atmospheric agents, UVS etc.
- Class 2 insulating material
- Conformity with IEC 670 standard for empty enclosures and with IEC 60439-3 standard for equipped switchboards.

### Facilities

- Metric and PG system cable entries
- Plenty of cable space
- Two depths of Din rail positioning
- Unbreakable door joists
- Vertical and horizontal association
- Left and right door opening
- Door locking facilities available as an option
- Optional mounting plates
- Sealing kit for front face available as an option
- Halogen free material
- Installation temperature -35°C to +60°C
- Glow wire test: according to 650°C as per IEC 60965-2-1
- Self extinguishing insulating materials



Mini Boards		
Reference	Description	Dimensions
CK003	3	90 x 150 x 111.5
CK004	4	123 x 200 x 111.5
CK006	6	159 x 200 x 111.5
CK008	8	195 x 200 x 111.5
CK012	12	267 x 200 x 111.5



Modular Boards		
Reference	Description	Dimensions
CK112	12	340 x 280 x 164
CK118	18	448 x 280 x 164
CK224	2 x 12	340 x 460 x 164
CK236	2 x 18	448 x 460 x 164
CK336	3 x 12	340 x 610 x 164



Universal Boards	
Reference	Description
CK410	340 x 460 x 164
CK411	340 x 610 x 164
CK412	448 x 460 x 164
CK413	448 x 610 x 164



Mixed Boards		
Reference	Description	Dimensions
CK505	5	138 x 460 x 153.5
CK514	13	340 x 335 x 153.5



### CK Range - Brass Terminal Bar

- MO4 Kit of 10 pcs, each bar with 4 holes
- MO8 Kit of 10 pcs, each bar with 8 holes
- MO10 Kit of 10 pcs, each bar with 10 holes
- MO12 Kit of 10 pcs, each bar with 12 holes
- MO14 Kit of 10 pcs, each bar with 14 holes
- MO16 Kit of 10 pcs, each bar with 16 holes
- MO22 Kit of 10 pcs, each bar with 22 holes

For a full range of accessories please contact customer services on - **01922 458 151**

## FILTER FANS RAL7035 – IP54

### A range of ventilation products for use in switchboards and controls panels.

With temperature playing a major role in reducing the life expectancy of devices such as VSC drives, PLC's, soft starters and telecommunication equipment, it is imperative that effective thermal management processes are considered for the protection of process control and power distribution systems within enclosed cabinets.

The air flow direction is from the outside towards the inside of the enclosure. If needed, the user can easily reverse the direction by simply re-assembling the fan in the opposite way.

Installation is fast thanks to the simple square cut out on the enclosure panel and to the snap in fixing system where no screws are required.

The snap in fixing system can be used on panels with a thickness in the range of 1.2mm to 2.4mm. For different thicknesses fixing can still be done with the screw kit which is included in each pack for this purpose.

The special configuration of the grill, the self adhesive gasket and the filter mat ensure IP54 protection degree.

An external cowl for increased protection to allow IP55 according to EN60529/10.91 is also available.



XTALFAA500BP



XTALFA1600BP



XTALFA2300BP



XTALFA2500BP



XTALFA3500BP

Part No	Airflow mt per hour	Dimensions H x W x D	Power Supply
XTALFAA500BP	24 m/hr	114mm x 114mm x 57mm	230v ac 50/60 Hz
XTALFAA5010BP	24 m/hr	114mm x 114mm x 57mm	110v ac 50/60 Hz
XTALFAA5024BPT	24 m/hr	114mm x 114mm x 57mm	24v dc 50/60 Hz
XTALFA1600BP	55 m/hr	150mm x 150mm x 77mm	230v ac 50/60 Hz
XTALFA1610BP	55 m/hr	150mm x 150mm x 77mm	110v ac 50/60 Hz
XTALFA1624BPT	55 m/hr	150mm x 150mm x 77mm	24v dc 50/60Hz
XTALFA2300BP	105 m/hr	250mm x 250mm x 111mm	230v ac 50/60 Hz
XTALFA2310BP	105 m/hr	250mm x 250mm x 111mm	110v ac 50/60 Hz
XTALFA2324BPT	105 m/hr	250mm x 250mm x 111mm	24v dc 50/60 Hz
XTALFA2500BP	230 m/hr	250mm x 250mm x 119mm	230v ac 50/60 Hz
XTALFA2510BP	230 m/hr	250mm x 250mm x 119mm	110v ac 50/60 Hz
XTALFA2524BPT	230 m/hr	250mm x 250mm x 119mm	24v dc 50/60 Hz
XTALFA3500BP	500 m/hr	325mm x 325mm x 151mm	230v ac 50/60 Hz
XTALFA3510BP	500 m/hr	325mm x 325mm x 151mm	110v ac 50/60 Hz

### FILTER and GRILL

Part No	Overall Dimensions H x W x D	For use with
XTALFAA000G	114mm x 114mm x 17mm	XTALFAA500BP
XTALFA1000G	150mm x 150mm x 28mm	XTALFA1600BP
XTALFA2000G	250mm x 250mm x 30mm	XTALFA2300BP & XTALFA2500BP
XTALFA3000G	325mm x 325mm x 30mm	XTALFA3500BP



**XTALFAA000G**



**XTALFA1000G**



**XTALFA2000G**



**XTALFA3000G**

### THERMOSTATS

Compact thermostats for din rail mounting to control ventilation and heating devices.

XTTHV02	N/O Vent ●	0/+60°C	din rail mounted	120V/230V AC
XTTHR02	N/C Heat ●	0/+60°C	din rail mounted	120V/230V AC

**XTTHV02**



**XTTHR02**



### HEATERS

Application: Enclosure heaters are often necessary to prevent failures or corrosion caused by low temperature or high humidity inside the enclosure. Such conditions are likely to occur when ambient temperature is low and the equipment inside the enclosure is not powered or fails to dissipate enough heat to keep enclosure temperature above the minimum threshold.

Outdoor enclosures, for instance, are almost always in such conditions. Safety: According to the type of heater, surface temperature is limited either by a PTC or by an over temperature safety switch. This allows a safe operation and a self-adjusted heating power. All are class II protection, IP20 EN60529.

Part No	Watts	Dimensions H x W x D	Power Supply	Max Current
XTSHT25W	25W	90mm x 50mm x 80mm	110-250V AC or DC	2A
XTSHT50W	50W	110mm x 50mm x 80mm	110-250V AC or DC	2A
XTSHT75W	75W	160mm x 50mm x 80mm	110-250V AC or DC	4A
XTSHT100W	100W	110mm x 90mm x 80mm	110-250V AC or DC	4A



### ACCESSORIES

#### XTFINRIP – Door Panel Light Switch 1N/O + 1N/C

- IP65
- Dimensions: 91mm x 31mm x 39mm
- Power supply 230V(400v) AC15

#### XTFINSTAFF – Light Switch Bracket

- For use in the above Light switch

#### XTLAMPSP22MAG – Magnetic Lamp

- 230V supply
- 11 watt lamp magnetic fixing
- Dimensions: 95mm x 43mm x 268mm

#### XTCUFF10B – Cover for IP55 Protection

- Dimensions: 195mm x 255mm x 55mm
- For use with XTALFAA500BP & XTALFA1600BP

#### XTCUFF20B – Cover for IP55 Protection

- Dimensions: 325mm x 425mm x 60mm
- For use with XTALFA2300BP & XTALFA2500BP

#### XTCUFF30B – Cover for IP55 Protection

- Dimensions: 410mm x 540mm x 110mm
- For use with XTALFA3500BP



## FILTER FANS



Part No	Air flow mt per hour	Dimensions H x W x D	Power supply
NSYCVF38M230PF	38 m/hr	137mm x 117mm x 49mm	230v
NSYCVF85M230PF	85 m/hr	170mm x 150mm x 62mm	230v
NSYCVF165M230PF	165 m/hr	268mm x 248mm x 104mm	230v
NSYCVF300M230PF	300 m/hr	268mm x 248mm x 116mm	230v
NSYCVF850M230PF	850 m/hr	336mm x 316mm x 162mm	230v

## FILTER & GRILL



Part No	For use with	Overall size
NSYCAG92LPF	NSYCVF38M230PF	137mm x 117mm x 13mm
NSYCAG125LPF	NSYCVF85M230PF	170mm x 150mm x 15mm
NSYCAG223LPF	NSYCVF165M230PF NSYCVF300M230PF	268mm x 248mm x 18mm
NSYCAG291LPF	NSYCVF850M230PF	336mm x 316mm x 18mm

## THERMOSTATS



NSYCCOTH0	N/O thermostat ●	0 - +60°C	Control a fan or alarm
NSYCCOTHC	N/C thermostat ●	0 - +60°C	Control a resistance heater or an alarm

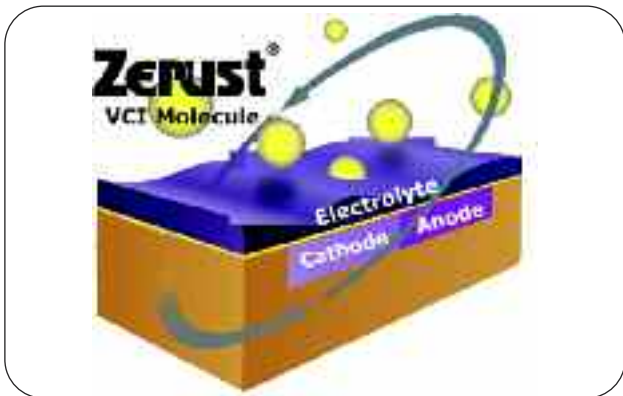
## HEATERS



Part No	Watts	Power supply
NSYCR10WU2	10W	110V/250 AC
NSYCR20WU2	20W	110V/250 AC
NSYCR55WU2	55W	110V/250 AC
NSYCR100WU2	90W	110V/250 AC

### HOW ZERUST® DIFFUSER PRODUCTS WORK

Zerust® ICT® diffusers are easy to use corrosion protection products that contain patented Zerust® corrosion inhibiting technology. They come in different formats to meet specific protection needs. They all emit powerful corrosion inhibiting molecules into an enclosure that settle on metal surfaces and protect them from corrosion. Use them to protect ferrous and non-ferrous metal such as iron, steel, copper, zinc and solder.



How the ZERUST® protective molecules suppress corrosion:

1. They passivate the electron flow between the anodic and cathodic areas on the metal surfaces.
2. They may also form a hydrophobic layer that prevents water and moisture from direct contact with the metal therefore acting as an electrolyte.
3. They may regulate the pH value of the electrolyte.

Features:

- Proven corrosion protection
- Easy to use
- Non toxic and odourless
- Fits restricted spaces
- Does not leave residue on electrical contact surfaces

Benefits:

- Reduce corrosion incidences
- Improve equipment reliability
- Reduce need for inspection and rework
- Save money and resources

Application Examples:

- Protect electrical connections in enclosures
- Protect an entire control room from corrosion



Product Code	Volume of Protection	Radius of Protection	Duration of Protection	Adhesive Backing
VC1-1 (S)	4.2ft3 (0.12 m <sup>3</sup> )	1ft (0.3m)	1 year	Yes
VC1-1	4.2ft3 (0.12 m <sup>3</sup> )	1ft (0.3m)	1 year	Yes
VC2-1	33.5ft3 (0.95 m <sup>3</sup> )	2ft (0.6m)	1 year	Yes
VC2-2	33.5ft3 (0.95 m <sup>3</sup> )	2ft (0.6m)	2 years	Yes
VC6-1	905ft3 (25.63 m <sup>3</sup> )	6ft (1.8m)	1 year	No
VC6-2	905ft3 (25.63 m <sup>3</sup> )	6ft (1.8m)	2 years	No

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Solutions

**XT**  
SERIES

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