

Industrial boxes

Spacial SDB - S24 - S44 - S57 - Steel industrial boxes

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Steel industrial boxes

Selection guide

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SDB: boxes	SDB: small enclosures	S24	S44	S57
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Criteria		Metallic junction boxes / Industrial boxes		Enclosure for security applications	Metallic junction boxes / Industrial boxes	
Outdoor use				•	•	•
Degree of protection		IP 55 IK 07	IP 55 IK 07	IP 55 IK 07	IP 66 IK 08	IP 66 IK 10
Dimensions (mm)	Height	85 to 357	206 to 357	180 to 230	80 to 400	200 or 300
	Width	85 to 307	156 to 307	130 to 210	80 to 400	300 to 500
	Depth	49 to 140	83 to 210	96 to 126	45 to 110	200 or 300
Universal application		•	•	•	•	•
High cover		•	Door			
Low cover		•	Door	Door	•	•
With knock-out		•				

Stainless-steel industrial boxes: contact us.



Specific

- Steel boxes and enclosures cannot be installed outdoors without a special finish.
- Please consult us for stainless-steel boxes: 304L, 316L, brushed, micro-beaded finishes.
- Please consult us for cut-outs / paint / machining / accessory installation / integration.

Steel industrial boxes

Selection guide

Metallic junction boxes SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	NSYDBN1010	NSYDB1010M	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	NSYDBN1510	NSYDB1510M	3 n° 1	1 n° 2	124	74	56	NSYPMD1510	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 3	2 n° 3	172	122	78	NSYPMD2015	1
	256	206	93	NSYDBN2520	NSYDB2520M	3 n° 4	2 n° 4	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	NSYDB3025M	2 n° 3, 2 n° 4	3 n° 4	268	218	110	NSYPMD3025	3.3
High cover models	357	307	136	NSYDBN3530	NSYDB3530M	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	NSYPMD3530	4.8
	155	105	88	NSYDAN1510	NSYDA1510M	3 n° 2	1 n° 2	124	74	83	NSYPMD1510	0.45
	206	156	122	NSYDAN2015	NSYDA2015M	3 n° 3	2 n° 3	172	122	121	NSYPMD2015	1.2
	256	206	140	NSYDAN2520	NSYDA2520M	3 n° 4	2 n° 4	220	170	131	NSYPMD2520	1.9

Small metallic enclosures SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	NSYDBN2015D	172	122	78	55	NSYPMD2015	1
	256	206	93	NSYDBN2520D	220	170	88	55	NSYPMD2520	1.5
	307	257	116	NSYDBN3025D	268	218	110	55	NSYPMD3025	3.3
	357	307	136	NSYDBN3530D	318	268	130	55	NSYPMD3530	4.8
High cover models	206	156	122	NSYDAN2015D	172	122	121	45	NSYPMD2015	1.2
	256	206	140	NSYDAN2520D	220	170	131	45	NSYPMD2520	1.9
	307	257	174	NSYDAN3025D	268	218	168	45	NSYPMD3025	4
	357	307	210	NSYDAN3530D	318	268	204	45	NSYPMD3530	5.8



External dimensions (mm)			S24 range Opaque door + screws	Steel industrial box references S44			S57 range IK 10
				IK 08			
Height	Width	Depth		Empty	Plate	Uprights (1)	
80	80	45	-	NSYSBS884	-	-	-
100	100	55	-	NSYSBS10105	-	-	-
130	130	60	-	NSYSBS13136	-	-	-
160	160	65	-	NSYSBS16166	-	-	-
165	120	65	-	NSYSBS16126	NSYSBS16126S	-	-
180	130	96	NSYSBS18139F		-	-	-
180	165	96	NSYSBS18169F		-	-	-
200	200	90	-	NSYSBS20209	NSYSBS20209S	-	-
230	210	126	NSYSBS232112F		-	-	-
250	250	100	-	NSYSBS252510	NSYSBS252510S	-	-
300	200	110	-		-	NSYSBS302011R	-
300	200	150	-		-	-	NSYSBS302015
300	300	100	-	NSYSBS303010	NSYSBS303010S	-	-
300	300	150	-		-	-	NSYSBS303015
400	200	110	-		-	NSYSBS402011R	-
400	300	150	-		-	-	NSYSBS403015
400	400	110	-	NSYSBS404011	NSYSBS404011S	-	-
500	200	110	-		-	NSYSBS502011R	-
500	300	110	-		-	NSYSBS503011R	-
500	300	200	-		-	-	NSYSBS503020
600	200	110	-		-	NSYSBS602011R	-
600	300	110	-		-	NSYSBS603011R	-

(1) Uprights along small sides (Width)

Steel derivation boxes IP 55

Overview

Boxes and small enclosures made of sheet-steel protected inside and outside with epoxy-polyester paint in RAL 7035 grey.

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PBS00235

Spacial SDB

With or without metric knock-outs for tube entry.



2 versions available: with high or low cover.



Backs equipped with threaded drill holes for fixing equipment. From model 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate. Direct wall-fixing.



PVC or rubber sealing gasket depending on the model.



Double-bar lock with inserted key can be used as a handle lock. Other lock inserts are available.



Metallic junction boxes

IP 55 (IEC 60529)

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PB500198

NSYDA2520M



PB500237

NSYDBN1510

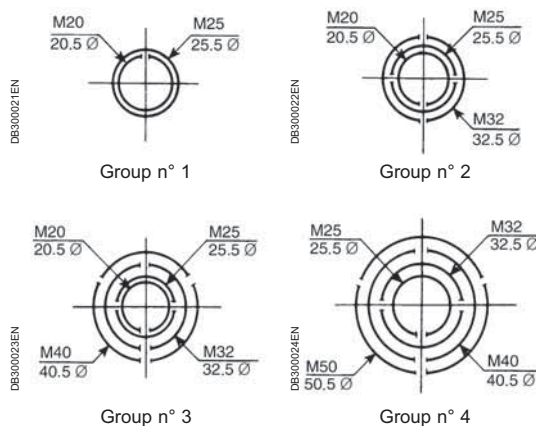
Metallic boxes made of sheet-steel protected inside and outside with textured epoxy-polyester paint in RAL 7035 grey.

The SDB series consists of 4 basic models:

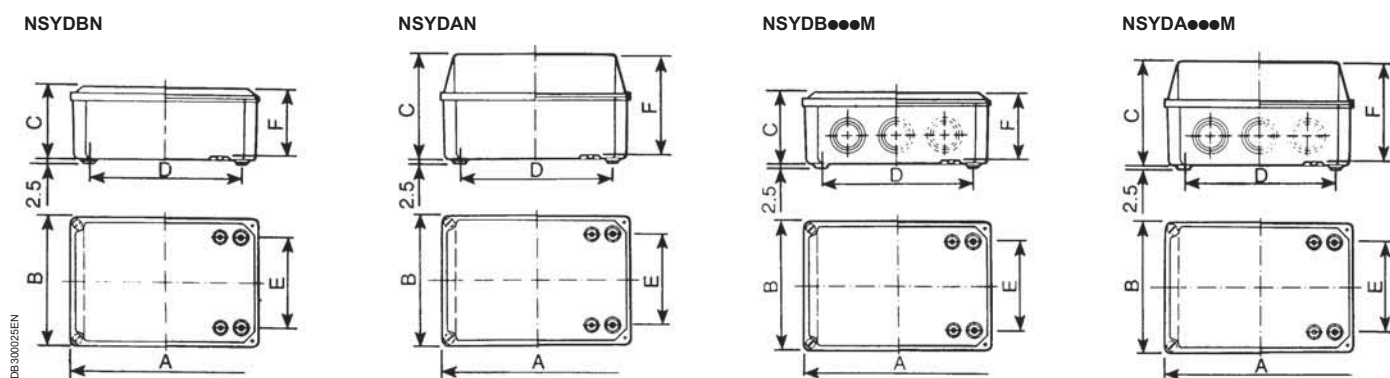
- Without knock-outs: **NSYDBN** with low cover and **NSYDAN** with high cover.
- With knock-outs: **NSYDB●●●M** with low cover and **NSYDA●●●M** with high cover.
- PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20.
- Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate.
- Direct wall-fixing by means of drill holes fitted with plastic plugs to ensure sealing.

Metallic junction boxes

IP 55 (IEC 60529)



Dimensions (mm)



Models, dimensions and references

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	NSYDBN1010	NSYDB1010M	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	NSYDBN1510	NSYDB1510M	3 n° 1	1 n° 2	124	74	56	NSYPMD1510	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 3	2 n° 3	172	122	78	NSYPMD2015	1
	256	206	93	NSYDBN2520	NSYDB2520M	3 n° 4	2 n° 4	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	NSYDB3025M	2 n° 3, 2 n° 4	3 n° 4	268	218	110	NSYPMD3025	3.3
High cover models	357	307	136	NSYDBN3530	NSYDB3530M	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	NSYPMD3530	4.8
	155	105	88	NSYDAN1510	NSYDA1510M	3 n° 2	1 n° 2	124	74	83	NSYPMD1510	0.45
	206	156	122	NSYDAN2015	NSYDA2015M	3 n° 3	2 n° 3	172	122	121	NSYPMD2015	1.2
	256	206	140	NSYDAN2520	NSYDA2520M	3 n° 4	2 n° 4	220	170	131	NSYPMD2520	1.9

Small metallic enclosures

IP 55 (IEC 60529)

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NSYDBN3025D

Metallic enclosures made of sheet-steel protected inside and outside with textured epoxy-polyester paint in RAL 7035 grey.

- The Spacial SDB series with hinges consists of 2 models **NSYDBN●●●D** low cover and **NSYDAN●●●D** high cover.
- Enclosures fitted with sealing gasket and M4 threaded holes fitted with removable plugs for fixing the mounting plate and/or equipment in general.
- Lock with double-bar insert  operated with key (standard  supply). Fixing this key to the insert will convert it into a handle lock. See other lock possibilities in the insert table.



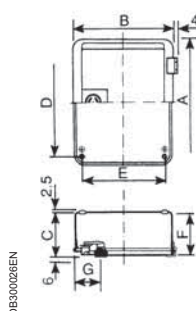
NSYDAN3025D

Small metallic enclosures

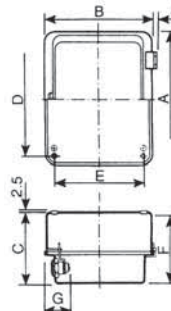
IP 55 (IEC 60529)

Dimensions

NSYDBN...D



NSYDAN...D



Models. Dimensions and references

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)		D	E	F	G		
Low cover models	206	156	83	NSYDBN2015D	172	122	78	55	NSYPMD2015	1
	256	206	93	NSYDBN2520D	220	170	88	55	NSYPMD2520	1.5
	307	257	116	NSYDBN3025D	268	218	110	55	NSYPMD3025	3.3
	357	307	136	NSYDBN3530D	318	268	130	55	NSYPMD3530	4.8
High cover models	206	156	122	NSYDAN2015D	172	122	121	45	NSYPMD2015	1.2
	256	206	140	NSYDAN2520D	220	170	131	45	NSYPMD2520	1.9
	307	257	174	NSYDAN3025D	268	218	168	45	NSYPMD3025	4
	357	307	210	NSYDAN3530D	318	268	204	45	NSYPMD3530	5.8

Conversions of standard lock into normalised solutions

Type and size		Operated with a key		Reference
Square insert	□ 6 mm	LC-7	DB300027	NSYTC6CRN
	□ 7 mm	LC-7		NSYTC7CRN
	□ 8 mm	LC-8		NSYTC8CRN
Triangular insert	▲ 6 mm	LT-8	DB300028	NSYTT6CRN
	▲ 7 mm	LT-8		NSYTT7CRN
	▲ 8 mm	LT-8		NSYTT8CRN
405 key-type lock			DB300029	NSYCL405CRN



Technical characteristics

- Degree of protection IP 55 according to IEC 60529.
- Resistance to external mechanical impacts: IK 07.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey or RAL 3000 red for security applications.
- Locking by screws or by side lock with 3-mm double-bar insert. Option of installing a handle, ref. **NSYTHL1242EPLM** or **NSYTHPLM** with insert ref. **NSYTT8CRN** (to be ordered).
- Plumbable with a cap installed at the plant.
- The enclosures are equipped with 4 nuts welded to the rear. They allow the fixing of a mounting plate (as an accessory) or a personalised mounting plate.
- Polyurethane sealing gasket.
- M6 × 8 earthing screws on the body and cover for earth continuity.

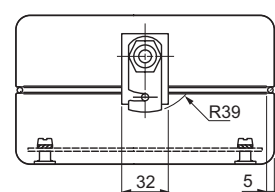
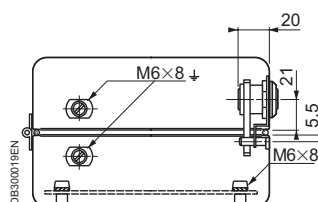
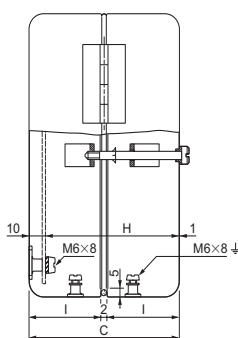
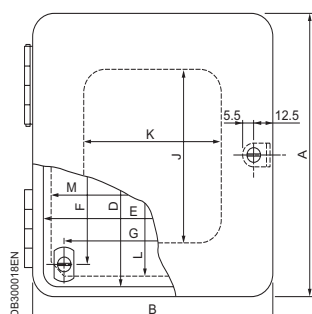
Applications

- Security and alarm systems (such as a fire alarm) that can accommodate modular plates and equipment.



Internal dimensions (mm)			Enclosure reference locking by screws		Reference of enclosures with side 3-mm double-bar lock		
Height	Width	Depth	Plain door	Door with window	Plain door	Door with window	Door with glass window thickness 3 mm
180	130	96	NSYSBS18139F	NSYSBS18139FT	NSYSBS18139K	NSYSBS18139KT	NSYSBS18139KTH
180	165	96	NSYSBS18169F	NSYSBS18169FT	NSYSBS18169K	NSYSBS18169KT	NSYSBS18169KTH
230	210	126	NSYSBS232112F	NSYSBS232112FT	NSYSBS232112K	NSYSBS232112KT	NSYSBS232112KTH

Ref. enclosures	Dimensions (mm)													Weight (kg)	Ref. plates
	A	B	C	D	E	F	G	H	I	J	K	L	M		
NSYSBS18139F	182	132	107	168	118	140	90	95	52	107	77	160	110	1	NSYAMP1612SB
NSYSBS18169F	182	167	107	168	153	140	125	95	52	108	97	160	145	1.2	NSYAMP1816SB
NSYSBS232112F	232	212	137	218	198	190	170	125	67	157	137	210	190	2	NSYAMP2321SB



Mounting accessories

- Treated-steel mounting plates, delivered with fixings.
- Kit for modular equipment, delivered with fixings.



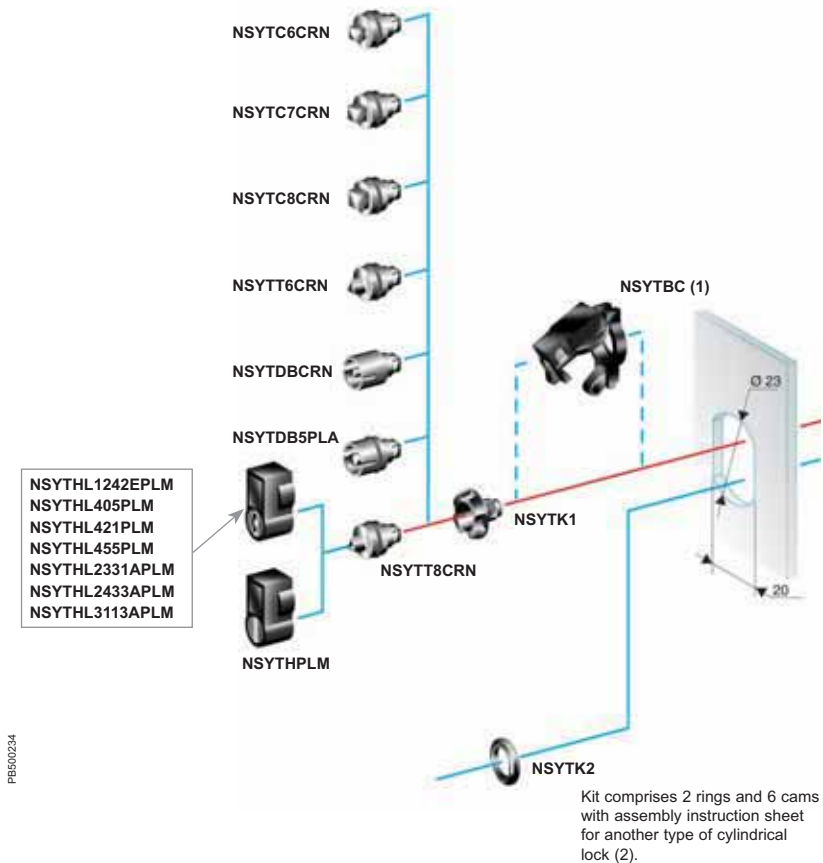
Internal dimensions (mm)			Number of modules	Modular mounting plates	Kits for equipment
Height	Width	Depth			
180	130	96	4	NSYAMP1612SB	NSYAPMC1813SB
180	165	96	-	NSYAMP1816SB	-
230	210	126	8	NSYAMP2321SB	NSYAPMC2321SB

Composition accessories

- Set of 2 fixing lugs made from treated steel, with fixings (without sealing washer, degraded IP).
- Glass-breaking set (hammer with support).

Name	Reference
Set of 2 fixing lugs	NSYAEFS24
Glass-breaking set	NSYAEDXS24

Door locks



(1) Incompatible with locking handle.
(2) Locks not referenced, to special order only. Consult our local sales office.
Note: the locks are not adaptable on lock screw models.

Locks

Kit

Description	Reference
Handle without lock	NSYTHPLM
Sealing or padlocking cap	NSYTBBC
Replacement spare lock	NSYTK1
EDF/RONIS kit	NSYTK2

Insert shape/type

Description	Reference
Square 6 mm	NSYTC6CRN
Square 7 mm	NSYTC7CRN
Square 8 mm	NSYTC8CRN
Double bar 3 mm (standard)	NSYTDBCRN
Double bar 5 mm	NSYTDB5PLA
Triangular 6.5 mm CNOMO	NSYTT6CRN
Triangular 8 mm	NSYTT8CRN

Handles with push-button release (delivered with insert ref. NSYTT8CRN)

Description	Reference
Key lock 1242 E	NSYTHL1242EPLM
Key lock 405	NSYTHL405PLM
Key lock 421	NSYTHL421PLM
Key lock 455	NSYTHL455PLM
Key lock 2331 A	NSYTHL2331APLM
Key lock 2433 A	NSYTHL2433APLM
Key lock 3113 A	NSYTHL3113APLM

Steel industrial boxes IP 66

Introduction



IP 66 steel industrial boxes

IP 66 boxes

Technical characteristics

- Resistance to external mechanical impacts: IK 08.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.
- Cover fixing by 4 screws.
- Polyurethane sealing gasket applied.
- Wall fixing: by welded lugs.
- Earthing screws on the body and cover for earth continuity.
- 3 versions:
 - Empty boxes, without internal fixing studs,
 - Boxes with fixing studs for plate.
 - Boxes with markings with a pitch of 12.5 mm for rails, on the width side.

Applications

- Applications requiring good water and dust protection.

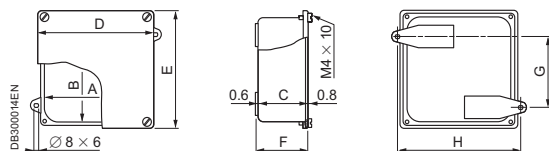


Internal dimensions (mm)			IP 66 box reference			Reference plates
Height	Width	Depth	Empty	Plate	Uprights	
80	80	45	NSYSBS884	-	-	-
100	100	55	NSYSBS10105	-	-	-
130	130	60	NSYSBS13136	-	-	-
160	160	65	NSYSBS16166	-	-	-
165	120	65	NSYSBS16126	NSYSBS16126S	-	NSYAMP1612SB
200	200	90	NSYSBS20209	NSYSBS20209S	-	NSYAMP2020SB
250	250	100	NSYSBS252510	NSYSBS252510S	-	NSYAMP2525SB
300	200	110	-	-	NSYSBS302011R	-
300	300	100	NSYSBS303010	NSYSBS303010S	-	NSYAMP3030SB
400	200	110	-	-	NSYSBS402011R	-
400	400	110	NSYSBS404011	NSYSBS404011S	-	NSYAMP4040SB
500	200	110	-	-	NSYSBS502011R	-
500	300	110	-	-	NSYSBS503011R	-
600	200	110	-	-	NSYSBS602011R	-
600	300	110	-	-	NSYSBS603011R	-

Steel industrial boxes IP 66

Dimensions

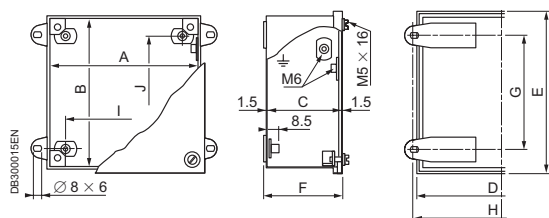
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IP 66 steel industrial boxes without knock-outs

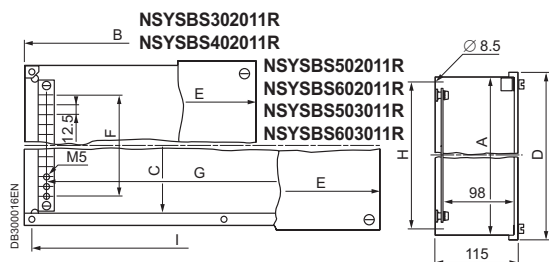
Internal dimensions (mm)			Dimensions (mm)			Fixing (mm)		Gross weight (kg)	Reference
A	B	C	D	E	F	G	H		
80	80	45	96	96	48	50	100	0.190	NSYSBS884
100	100	55	116	116	58	70	120	0.270	NSYSBS10105
130	130	60	142	142	63	100	144	0.300	NSYSBS13136
160	160	65	174	174	68	130	178	0.590	NSYSBS16166

Bare boxes and boxes with 4 plate-fixing points, IP 66



Internal dimensions (mm)			Dimensions (mm)			Box fixing (mm)		Plate fixing (mm)		Reference
A	B	C	D	E	F	G	H	I	J	
120	165	65	131	176	72	137	137	90	140	NSYSBS16126 NSYSBS16126S
200	200	96	211	211	97	174	217	170	170	NSYSBS20209 NSYSBS20209S
250	250	100	262	262	107	224	267	220	220	NSYSBS252510 NSYSBS252510S
300	300	100	312	312	107	274	317	270	270	NSYSBS303010 NSYSBS303010S
400	400	110	412	412	117	374	417	370	370	NSYSBS404011 NSYSBS404011S

Boxes with uprights, IP 66



Internal dimensions (mm)			Dimensions (mm)			Uprights (mm)	Box fixing (mm)		Reference
A	B	C	D	E	F	G	H	I	
200	300	-	211	311	125	250	184	284	NSYSBS302011R
200	400	-	211	411	125	350	184	384	NSYSBS402011R
200	500	172	211	511	125	450	184	484	NSYSBS502011R
200	600	172	211	611	125	550	184	584	NSYSBS602011R
300	500	272	312	512	225	450	284	484	NSYSBS503011R
300	600	272	312	612	225	550	284	584	NSYSBS603011R

Steel screw fixed cover boxes IP 66

Introduction



Technical characteristics

- Sheet-steel enclosure.
- Degree of protection: IP 66 according to IEC 60529.
- Resistance to external mechanical impacts: IK 10.
- Structured finish, polyester powder paint, RAL 7035 grey colour.
- Fixing of the cover with 4 CHc M5 × 35 shouldered captive screws.
- The enclosures are equipped with 4 backstuds for fixing the mounting plate.
- Polyurethane sealing gasket.
- Earthing screws on the body and cover for earth continuity.

Special versions

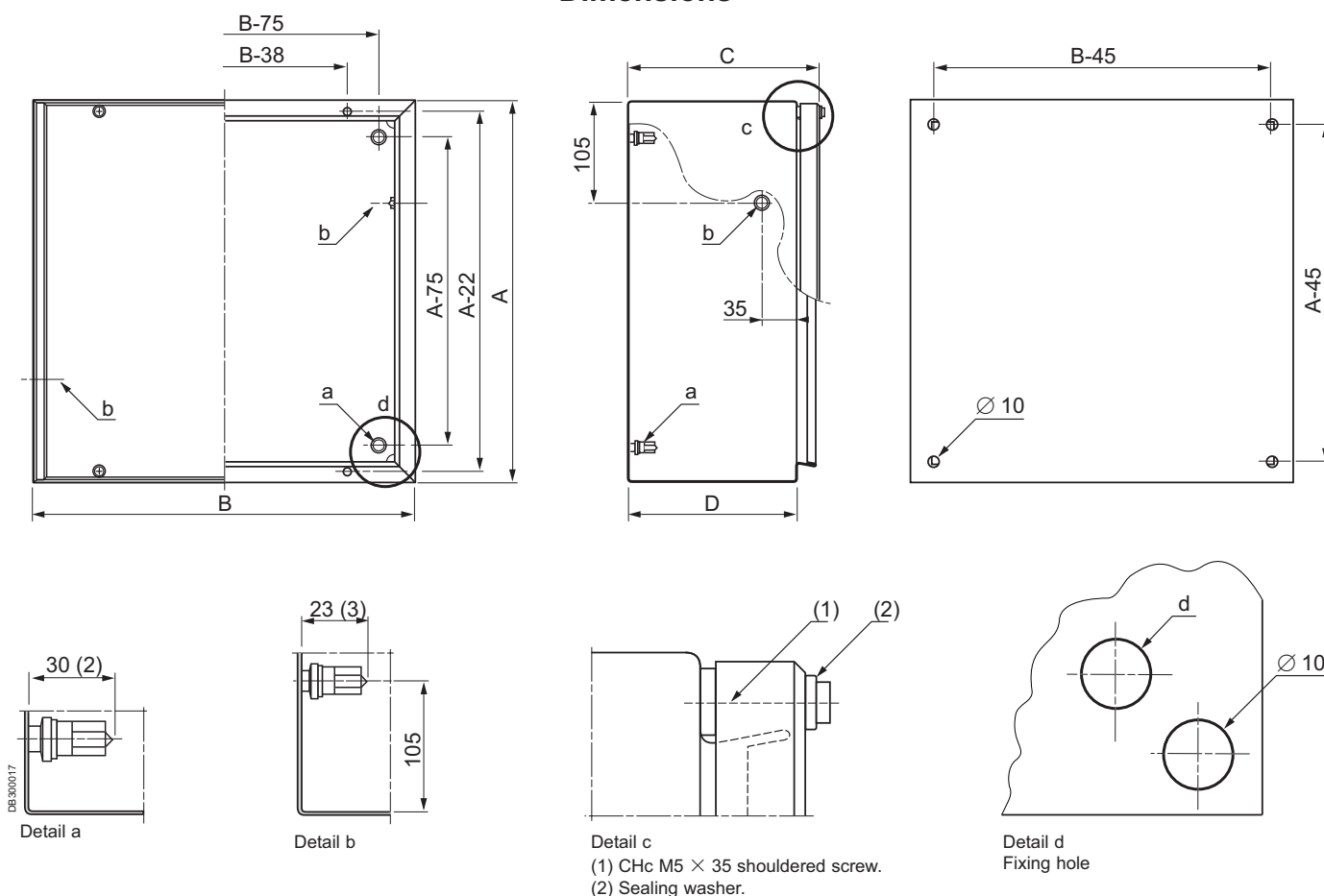
- On request, the industrial boxes can be delivered with:
 - Other finishes (zinc chromate, metallised, etc.).
 - Other colours.
 - Etc.
- See our Customised offer.

Applications

- Use in environments with a considerable risk of dust and/or liquid deposit creation.

External dimensions (mm)			(mm)				Reference
Height	Width	Depth	A	B	C	D	
200	300	150	200	300	150	127	NSYSBS302015
300	300	150	300	300	150	127	NSYSBS303015
300	400	150	300	400	150	127	NSYSBS403015
300	500	200	300	500	200	177	NSYSBS503020

Dimensions



Steel screw fixed cover boxes IP 66 Accessories

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Mounting plates



Enclosure dimensions (mm)			Mounting plates		
Height	Width	Depth	Plain	Microperforated	Telequick
200	300	150	NSYMM32	NSYMF32	NSYMR32
300	300	150	NSYMM33	NSYMF33	NSYMR33
300	400	150	NSYMM43	NSYMF43	NSYMR43
300	500	200	NSYMM35	NSYMF53	NSYMR53



See common accessories page 7/2.

Wall-fixing lugs



Description	Reference
Set of 4 steel fixing lugs	NSYAEFPFSC
Set of 4 stainless-steel fixing lugs	NSYAEFPFXSC



This offer is completed by our range of Spacial S3DB terminal enclosures.



Specific

Our specific offer: special dimensions and cut-outs.
Please contact us.



See diagram, dimensions and characteristics: page 2/48.

DIN rail kit

- Set of 2 supports and 1 symmetrical DIN rail 35 × 7.5 mm.
- Adjustment of DIN rail on 25 mm pitch.
- Rear support allows a 20 mm space at the rear of the enclosure.
- Material: zinc steel.
- Direct fixing on back welded studs.
- Supplied with fixing screws.

For enclosure (mm)		Reference
Height	Width	
200	300	NSYAMRD2030
300	300	NSYAMRD3030
300	400	NSYAMRD3040
300	500	NSYAMRD3050

Selection tools

> www.schneider-electric.com

Our international site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.



1

Our software suite

> Spacial.pro

Spacial.pro allows you to make switchboard proposals based on the standard Spacial offer. A full project with several sets of switchboards is quoted in minutes, with automatic creation of the Bill of Material and 2D drawings for front/side views.



PB500010

> ProClima

Calculate the right choice for your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.



PB500011

> Spacial.ref Thalassa.ref

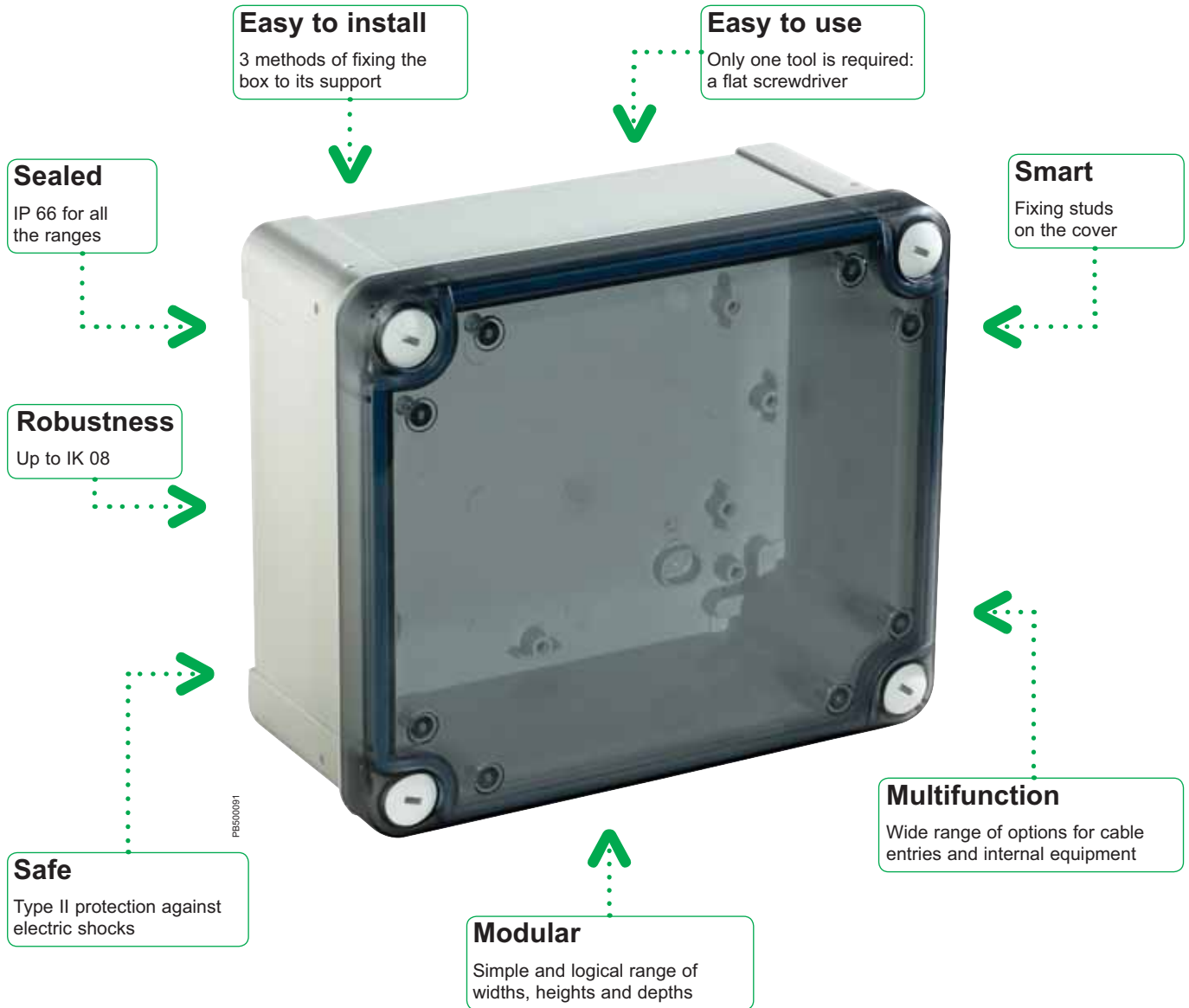
These digital rules allow you to select the best components from the current extensive product range without the risk of any mistakes, since product and accessory selection take place automatically, saving you time and money.



PB500012

Your industrial boxes IP 66, IK 07 and IK 08, ideal in any conditions!

1



Customisation service

Complementing our standard solutions, Thalassa industrial boxes can be adapted and transformed to your specific needs:

- For easy and direct use in your industrial process.
- To reduce your production times and reduce logistics constraints.
- To blend in with the aesthetics and ergonomics of your equipment.
- To have the guarantee of quality customisation.

Customisation offer

- Accessory installation.
- Machining: cut-outs, drill holes.
- Marking.
- Colours.
- Packaging alternatives.



Specific

Adaptability

Good flame resistance:
ABS: 650 °C.
PC (UL): 960 °C, UL94V0.

Equipment

The various installation studs all have the same diameter. Only one type of screw is used to fix all the accessories: batch of 100 self-tapping screws, ref. **NSYAMFSTB**.

Well designed

Fixing studs in the cover for accommodating equipment.
Corners for centring the cover on the body.

Aesthetics

Rounded design intended to maximise robustness and sealing.

Choice

- 22 models from 74 × 74 × 54 to 341 × 291 × 168 mm in ABS or polycarbonate (PC) with low or high, opaque or transparent covers.
- Multiple installation accessories.

Installation

Various options for fixing the box, outside the sealed volume, through the rear of the box or using external lugs.

Modularity

Logical and simple range of width, height and depth dimensions, with the particularity of allowing the boxes to be coupled.

Safety

Protection against electric shocks: class II.

Performance

- Sealing:
 - IP 66 guaranteed by a polyurethane seal.
 - NEMA 4.4X (NEMA 250).
- Mechanical strength:
 - ABS: IK 07 (2J).
 - Polycarbonate: IK 08 (5J).

Light and resistant

Boxes weighing only some dozens of grams can withstand impacts of several kilograms.

Practical

Cardboard packaging reusable once the box is equipped.

Standards

IEC 62208 Certified TÜV (report available on our websites).

Environment

Respect for eco-design rules (Product environmental profile).
Halogen-free plastic materials.

Approval

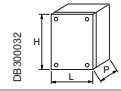
SEMKO, DEMKO, TÜV and UL.

Insulating industrial boxes

Selection guide

1

		
ABS	Polycarbonate	Polyester
Page 1/24	Page 1/24	Page 6/7

Criteria	Materials	ABS	Polycarbonate	Polyester loaded with fibreglass
Outdoor use		• (1)	•	•
Aggressive environment		•	•	• (2)
Protection rating		IP 66 IK 07	IP 66 IK 08	IP 65 IK 10
Fire resistance: glow wire IEC 60695-2-11.		650 °C	960 °C	960 °C
External dimensions (mm)		H 74 to 341 W 74 to 291 D 54 to 168	H 74 to 341 W 74 to 291 D 54 to 168	H 180 to 540 W 270 to 720 D 180 to 230
Universal application		•	•	•
Coupling boxes		• (3)	• (3)	•

(1) ABS boxes can be installed in outdoor if they are protected from the solar radiation and the effects of UV.

(2) See Thalassa PLS section.

(3) See accessories on pages 1/32 to 1/41.



Specific



PB500241

**For our customized offer,
please contact us.**

Insulating industrial boxes

Selection table

Universal, electronic and junction applications



Dimensions (mm)								ABS boxes IP 66-IK 07	PC UL boxes IP 66-IK 08	Boxes with buttons
External			Internal							
Height	Width	Depth	Height	Width	Depth	Body	Lid			
74	74	54	65	65	47	37	10	●	●	●
89	89	54	80	80	47	37	10	●	●	
116	74	62	105	65	55	45	10	●	●	●
116	74	94	105	65	85	45	40	●		
116	116	62	105	105	55	45	10	●	●	
116	116	133	105	105	125	45	80	●		
138	93	72	125	80	65	45	20	●	●	
164	121	87	150	105	80	60	20	●	●	
192	121	87	175	105	80	60	20	●	●	
192	121	105	175	105	100	60	40	●	●	
192	164	87	175	150	80	60	20	●	●	
192	164	105	175	150	100	60	40	●	●	
241	194	87	225	175	80	60	20	●	●	
241	194	107	225	175	100	60	40	●	●	
241	194	107	225	175	100	80	20	●	●	
241	194	127	225	175	120	80	40	●	●	
291	241	88	275	225	80	60	20	●	●	
291	241	128	275	225	120	60	60	●	●	
291	241	128	275	225	120	100	20	●	●	
291	241	168	275	225	160	100	60	●	●	
341	291	128	325	275	120	100	20	●	●	
341	291	168	325	275	160	100	60	●	●	

Power distribution and infrastructures



External dimensions (mm)			PLS boxes IP 65 - IK 10	
Height	Width	Depth	Opaque covers	Transparent covers
180	270	180	•	•
270	270	180	•	•
270	270	230	•	•
270	360	180	•	•
270	360	230	•	•
270	540	180	•	•
270	540	230	•	•
380	360	180	•	•
380	540	180	•	•
380	540	230	•	•
380	720	230	•	•
540	540	180	•	•
540	540	230	•	•
540	720	230	•	•

Thermoplastic industrial boxes

Introduction

1



General features

- Large range of dimensions (H, W, D).
- High or low, opaque or transparent cover.
- Boxes that can be coupled (exactly the same dimensions) with kit ref. **13934AB**.
- Locks from box size of 116 × 116 × 62 mm:
 - Cover locking by 4 plastic captive screws with coarse thread outside the sealed area.
 - Plumbable lock.
- Locks from box size of 138 × 93 × 72 mm:
 - The standard screws (flat screwdriver) can be replaced with other standardised screws (page **1/38**).
- The 4 "legs" of the cover ensure its robustness and perfect support during customisation operations.
- Adaptable hinges on all the 20- and 40-mm covers (page **1/37**).

Materials

- ABS boxes:
 - IK 07 (2J) according to IEC 62262.
 - Glow wire resistance: 650 °C according to IEC 60695-2-11.
 - Usage temperature: –25 °C...+60 °C.
 - Installation temperature: –15 °C...+40 °C.
- Polycarbonate boxes:
 - IK 08 (5J) according to IEC 62262.
 - Glow wire resistance: 960 °C.
 - Usage temperature: –25 °C...+80 °C.
 - Installation temperature: –15 °C...+60 °C.
 - Certified according to UL 508A.

Fixing the box

- Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 × 93 × 72 mm.
- Through the rear of the box by 2 or 4 elongated holes to be perforated.
- With fixing lugs from box size of 116 × 116 × 62 mm (ref. **NSYAEFTB**).

Equipment installation

- Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4-mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 × 10 mm with Pozidriv and slotted head).
- Option of installing rails, plates (page **1/40**) or other types of supports (card, etc.).
- Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment.

Technical features

- IP 66 according to IEC 60529.
- NEMA 4.4X according to Nema 250.
- Class II according to IEC 61140.
- Colour:
 - Body: RAL 7035 grey.
 - Cover: RAL 7035 grey or tinted transparent.
- Insulating, halogen-free plastic materials.
- Resistance to chemical and atmospheric agents: see technical appendices.

Thermal dissipation

- Use a suitable calculation method according to IEC 60890.
- Anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box.

Thermoplastic industrial boxes

Certifications

Certifications

- IEC 62208 certified by TÜV.
- SEMKO, DEMKO.
- UL: polycarbonate range.
- Product Environmental Profile.

Choose the material according to the environment

- ABS for conventional applications (IK 07) with the usual constraints.
- Polycarbonate for enhanced impact resistance and for outdoor applications or applications directly exposed to UV.
- Polycarbonate certified UL.

Materials	ABS	Polycarbonate
IP	66	66
IK	07	08
Glow wire resistance	650 °C	960 °C
Standard	IEC 62208	UL 508A / IEC 62208
Usage temperature (°C)	- 25 ... + 60 °C	- 25 ... + 80 °C
UV	+	+++
Chemical	+	+++
Halogen	None	Very low
Self-extinguishing	-	UL 94 V0



Specific

Customisation:
The boxes can be customised on request.
Choose the material according to the environment.



1



ABS or polycarbonate boxes with low cover

- IP 66 - NEMA 4.4X.
- IK 07 (ABS) - IK 08 (PC).
- RAL 7035 grey.
- Boxes 54 to 128 mm deep with 10- to 20-mm covers.
- Opaque or transparent cover.
- Hinges: as accessories and only for the 20-mm covers.

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Cover screw	ABS boxes IP 66 - IK 07		PC-UL boxes IP 66 - IK 08	
										Cover		Cover	
Height	Width	Depth	Height	Width	Depth					Opaque	Transparent	Opaque	Transparent
74	74	54	65	65	47	37	10	5	Metal	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	5	Metal	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	5	Metal	NSYTBS1176	-	NSYTBP1176	-
116	116	62	105	105	55	45	10	5	Plastic	NSYTBS11116	-	NSYTBP11116	-
138	93	72	125	80	65	45	20	2	Plastic	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	2	Plastic	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	2	Plastic	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	164	87	175	150	80	60	20	1	Plastic	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
241	194	87	225	175	80	60	20	1	Plastic	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	107	225	175	100	80	20	1	Plastic	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
291	241	88	275	225	80	60	20	1	Plastic	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	275	225	120	100	20	1	Plastic	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
341	291	128	325	275	120	100	20	1	Plastic	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T

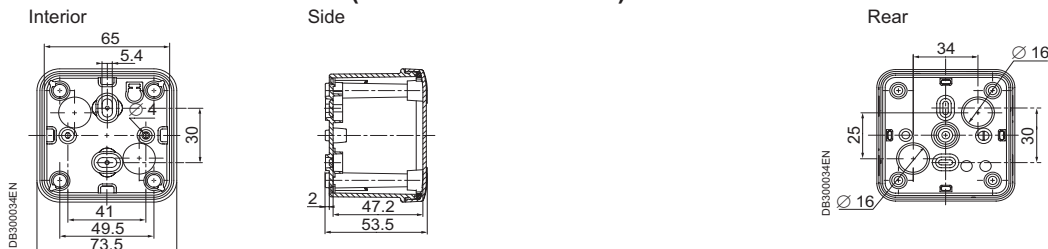


ABS or polycarbonate boxes with high cover

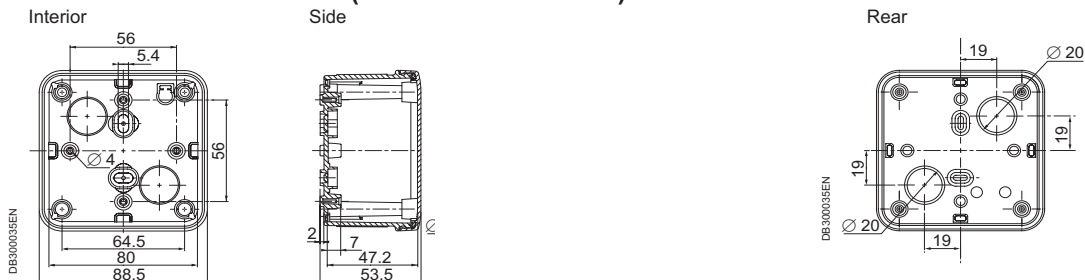
- IP 66 - NEMA 4.4X.
- IK 07 (ABS) - IK 08 (PC).
- RAL 7035 grey.
- Boxes 94 to 168 mm deep with 40- to 80-mm covers.
- Opaque or transparent cover.
- Hinges: as accessories and only for the 40-mm covers.

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Cover screw	ABS boxes IP 66 - IK 07		PC-UL boxes IP 66 - IK 08	
										Cover		Cover	
Height	Width	Depth	Height	Width	Depth					Opaque	Transparent	Opaque	Transparent
116	74	94	105	65	85	45	40	3	Metal	NSYTBS1179H	-	-	-
116	116	133	105	105	125	45	80	2	Plastic	NSYTBS111113H	-	-	-
192	121	105	175	105	100	60	40	2	Plastic	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
192	164	105	175	150	100	60	40	1	Plastic	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	107	225	175	100	60	40	1	Plastic	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	225	175	120	80	40	1	Plastic	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	128	275	225	120	60	60	1	Plastic	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	275	225	160	100	60	1	Plastic	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	168	325	275	160	100	60	1	Plastic	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

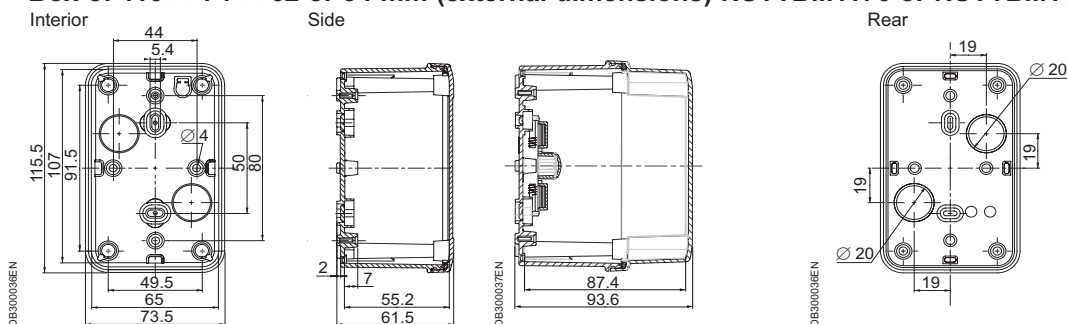
Box of 74 × 74 × 54 mm (external dimensions) NSYTB...775



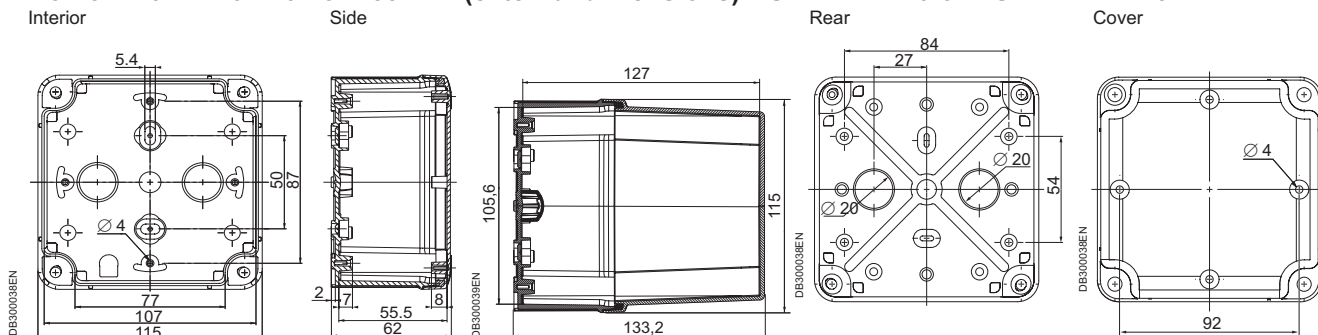
Box of 89 × 89 × 54 mm (external dimensions) NSYTB...885



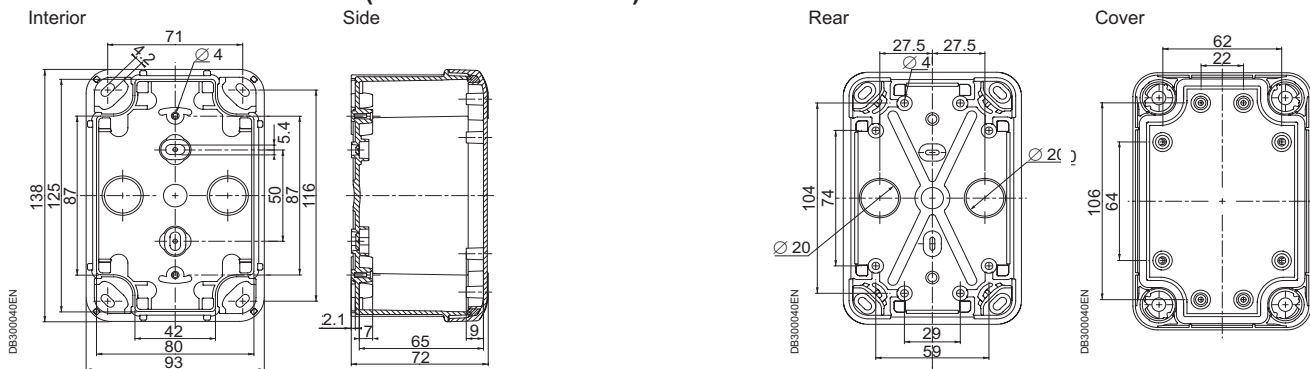
Box of 116 × 74 × 62 or 94 mm (external dimensions) NSYTB...1176 or NSYTB...1179



Box of 116 × 116 × 62 or 133 mm (external dimensions) NSYTB...11116 or NSYTB...11113



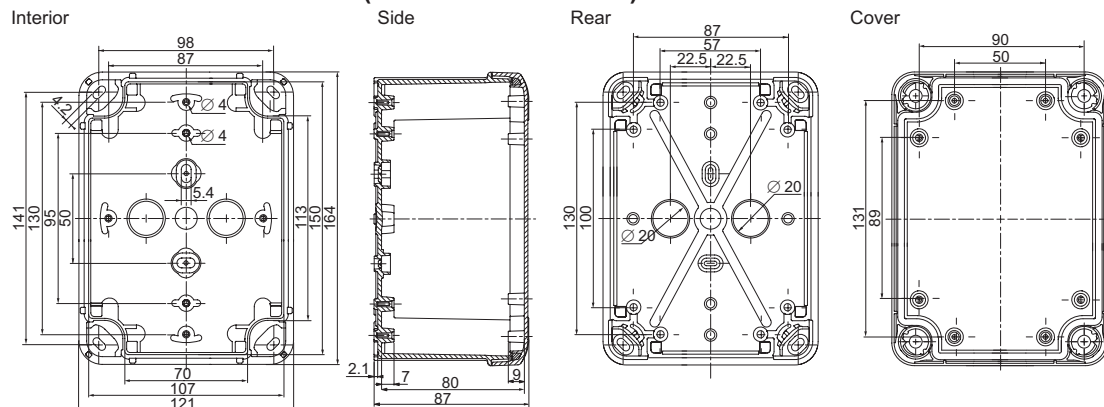
Box of 138 × 93 × 72 mm (external dimensions) NSYTB...1397



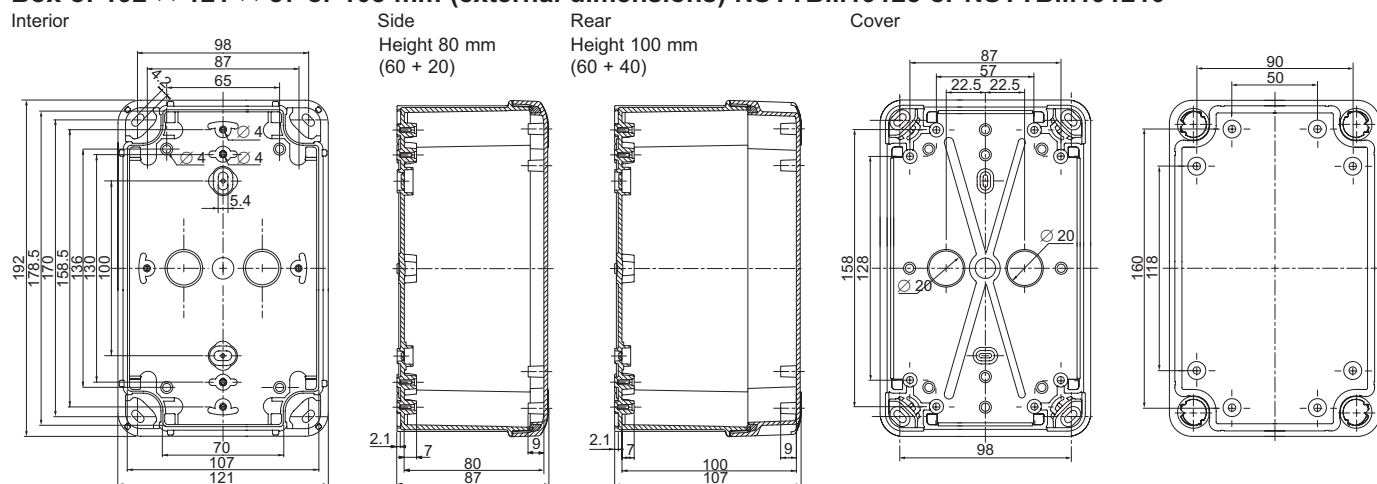
Thermoplastic industrial boxes

Dimensions

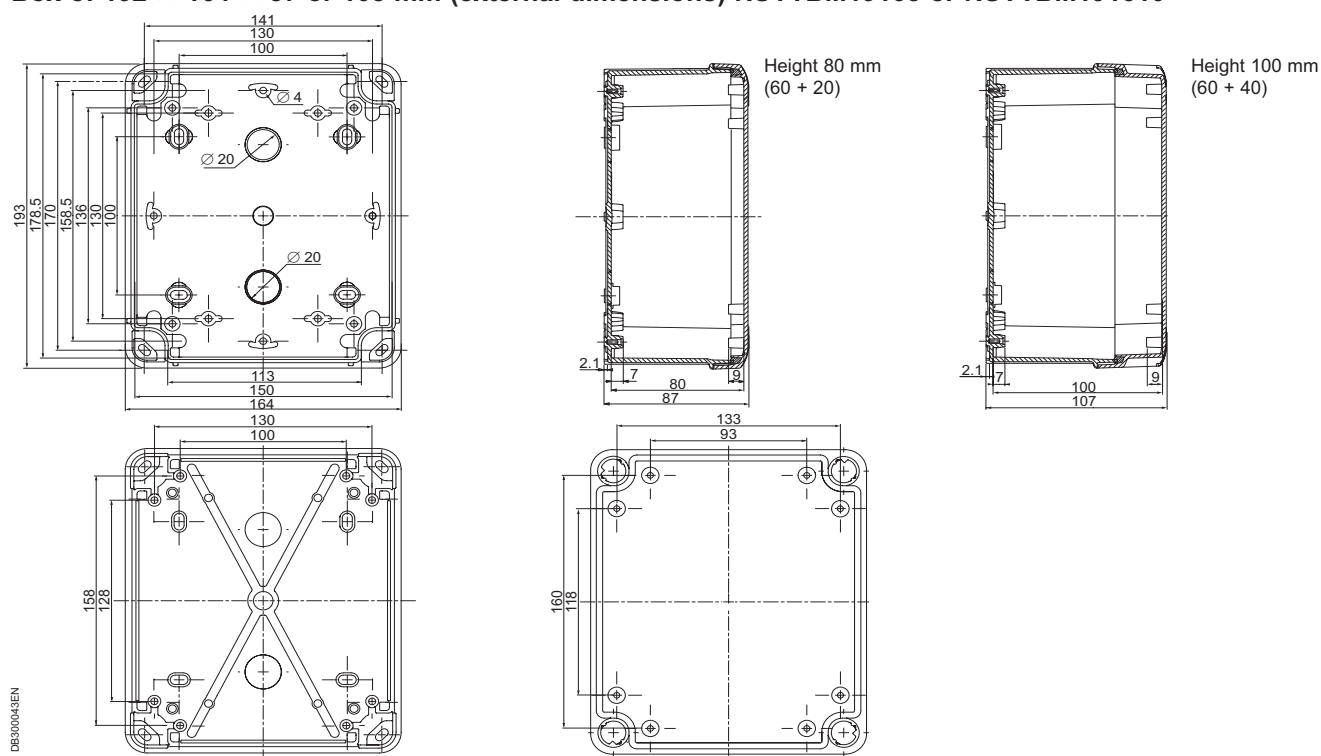
Box of 164 × 121 × 87 mm (external dimensions) NSYTB...16128



Box of 192 × 121 × 87 or 105 mm (external dimensions) NSYTB...19128 or NSYTB...191210



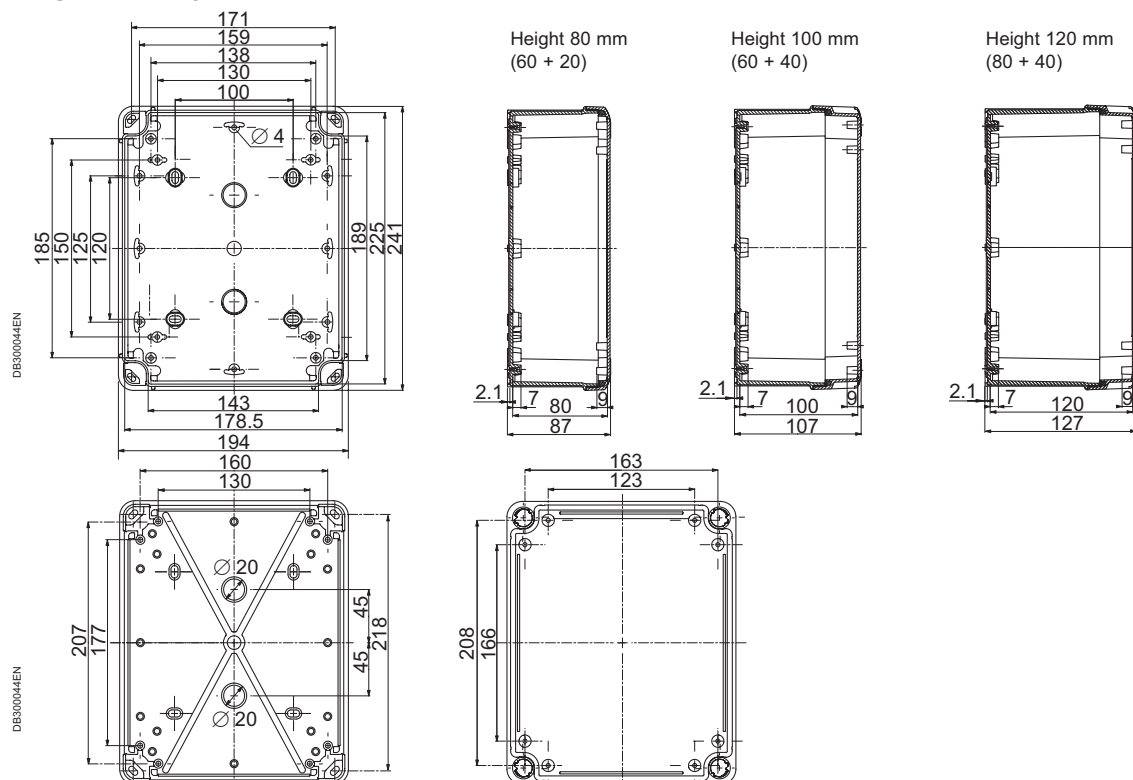
Box of 192 × 164 × 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610



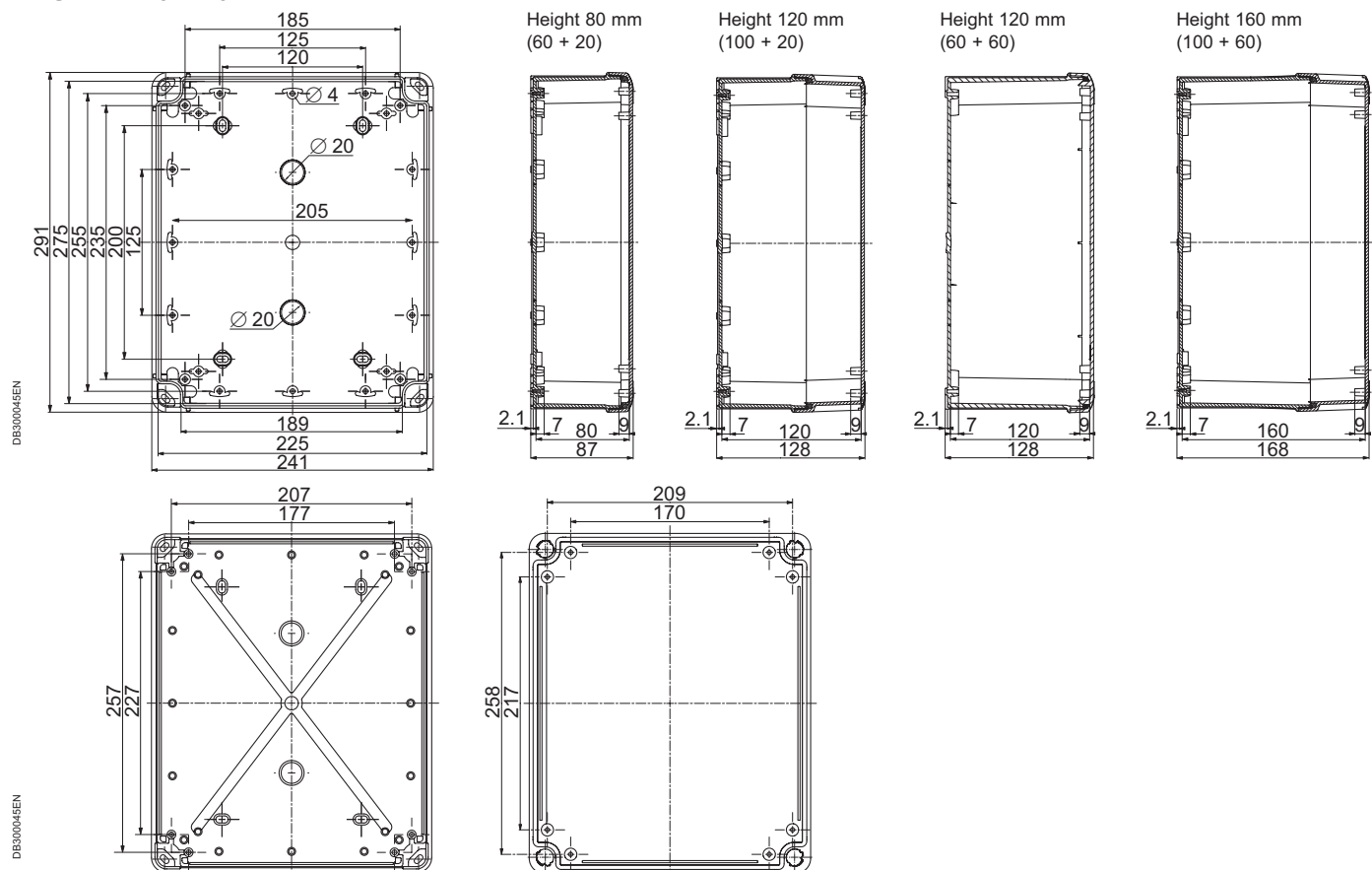
Thermoplastic industrial boxes

Dimensions

Box of 241 × 194 × 87, 107 or 127 mm (external dimensions) NSYTB...24198, NSYTB...241910 or NSYTB...241912



Box of 291 × 241 × 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416

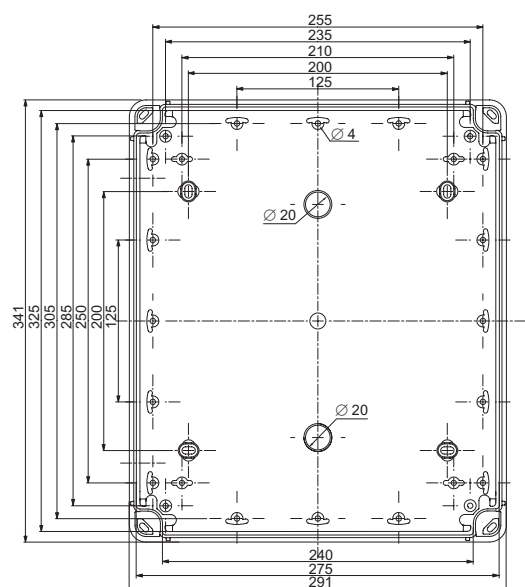


Thermoplastic industrial boxes

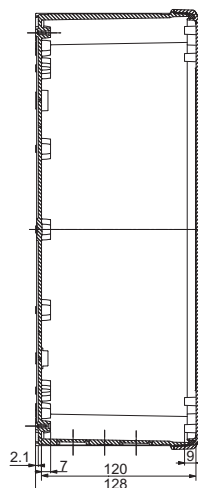
Dimensions

Box of $341 \times 291 \times 128$ or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916

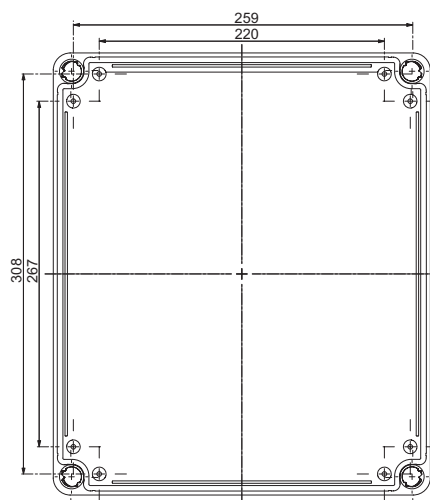
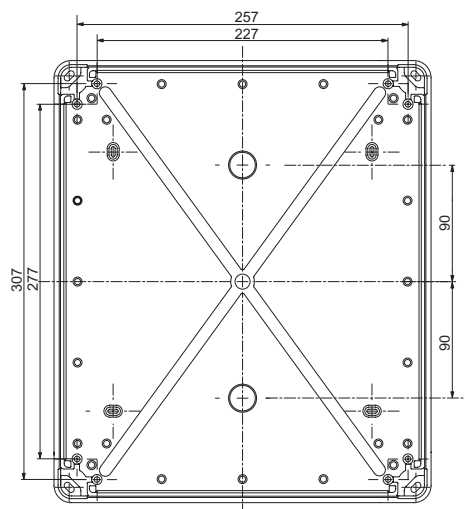
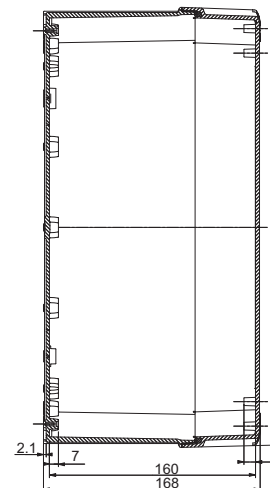
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Height 120 mm
(100 + 20)



Height 160 mm
(100 + 60)



DB300046EN

Thermoplastic industrial boxes

Dimensions summary table

For box dimensions 125 × 80 × 65 to 325 × 275 × 160
(internal dimensions)

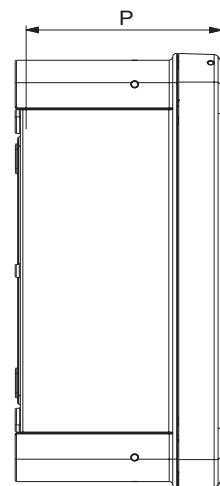
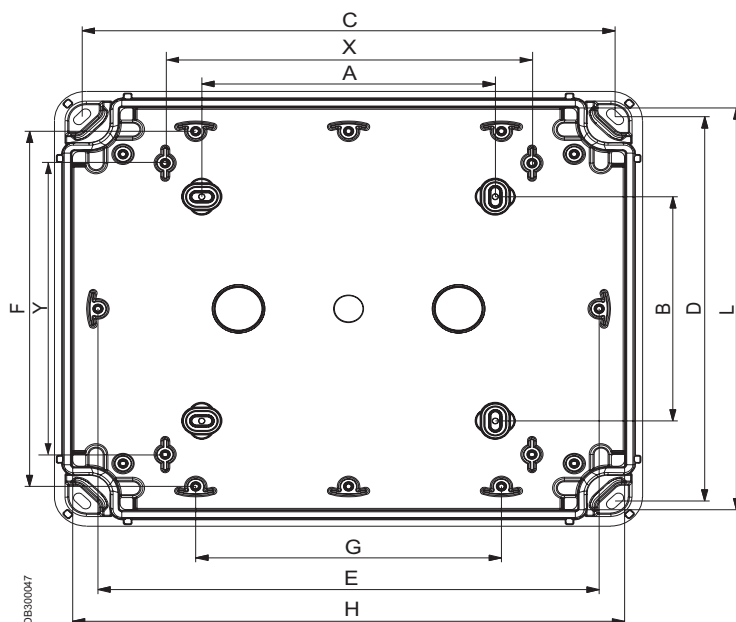
Internal dimensions (mm)			Fixing of the box (mm) (marking on the outside)				Fixing of accessories (mm) (marking on the inside)					Box reference base with and without transparent cover*	
H	L	P	A	B	C	D	E	F	G	X	Y		
65	65	47	30	-	-	-	-	41	-	-	-	NSYTBS775	NSYTBP775
80	80	47	30	-	-	-	56	56	-	-	-	NSYTBS885	NSYTBP885
105	65	55	50	-	-	-	80	44	-	-	-	NSYTBS1176	NSYTBP1176
105	65	85	50	-	-	-	80	44	-	-	-	NSYTBS1179H	-
105	105	55	50	-	-	-	87	87	-	-	-	NSYTBS11116	NSYTBP11116
105	105	125	50	-	-	-	87	87	-	-	-	NSYTBS111113H	-
125	80	65	50	-	116	71	87	-	-	-	-	NSYTBS1397	NSYTBP1397
150	105	80	50	-	141	98	130	87	-	95	-	NSYTBS16128	NSYTBP16128
175	105	80	100	-	170	98	158.5	87	-	136	-	NSYTBS19128	NSYTBP19128
175	105	100	100	-	170	98	158.5	87	-	136	-	NSYTBS191210H	NSYTBP191210H
175	150	80	100	100	170	141	158.5	130	-	136	65	NSYTBS19168	NSYTBP19168
175	150	100	100	100	170	141	158.5	130	-	136	65	NSYTBS191610H	NSYTBP191610H
225	175	80	120	100	218	171.5	205	158.5	125	150	130	NSYTBS24198	NSYTBP24198
225	175	100	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241910H	NSYTBP241910H
225	175	100	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241910	NSYTBP241910
225	175	120	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241912H	NSYTBP241912H
275	225	80	200	120	268.5	218.5	255	205	125	221	161	NSYTBS29248	NSYTBP29248
275	225	120	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292412H	NSYTBP292412H
275	225	120	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292412	NSYTBP292412
275	225	160	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292416H	NSYTBP292416H
325	275	120	200	200	319	269	305	255	125	250	210	NSYTBS342912	NSYTBP342912
325	275	160	200	200	319	269	305	255	125	250	210	NSYTBS342916H	NSYTBP342916H

*Identical features for the boxes with transparent covers. Add a T at the end of the reference.

H: Height

L: Width

P: Depth



1



PB500249

NSYTBS775B1Y (1)



PB500250

NSYTBS1176B2



PB500242

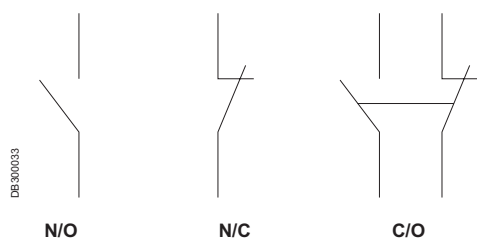
NSYTBS1176B3

Boxes equipped with IP 54 ABS buttons

Overall external dimensions (mm)			Minor pack.	Reference
Height	Width	Depth		
74	74	83	1	NSYTBS775B1Y (1)
116	74	75	1	NSYTBS1176B2
116	74	75	1	NSYTBS1176B3

(1) Ref. **NSYTBS775B1Y** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:
 - "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K.
 - Mechanical durability of the emergency switch: 0.1 million cycles.
 - Mechanical durability of the "NC" and "NO" switches: 5 million cycles.
 - Protection against short circuits: 10 A.



Function	Type			Type of push
	"NO"	"NC"	"C / O"	
Emergency switching off	1	1	-	Latching, red
Start/stop				
Start	1	-	-	Flush, green
Stop	-	1	-	Projecting, red
Up / down / stop				
Up	-	-	1	Flush, black
Down	-	-	1	Flush, white
Stop	-	1	-	Projecting, red



PB500251



PB500252



PB500253

ABS button boxes, to be equipped

Overall internal dimensions (mm)					Overall external dimensions (mm)				Minor pack.	Grill
H.	W.	D.	Body	Cover	H.	W.	D.			
65	65	45	35	10	74	74	54	1 hole	5	NSYTBS775C1
65	65	45	35	10	74	74	54	1 hole	5	NSYTBS775C1Y (1)
105	65	55	45	10	116	74	62	2 holes	5	NSYTBS1176C2
105	65	55	45	10	116	74	62	3 holes	5	NSYTBS1176C3

(1) Yellow "emergency switching off" box.

- IK 07.
- RAL 7035 grey and RAL 1021 yellow, "emergency switching off".
- Diameter of the button holes: 22.5 mm.
- Flush-mounting cable entries for ISO cable gland (page 1/35).
- 4 entries with 20-mm diameter on the 1-button box.
- 6 entries with 20-mm diameter on the 2 and 3-button boxes.

Practical

- Ready-to-use boxes.

Thermoplastic industrial boxes

Selection guide

Universal boxes with IP 66



Page 1/24

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
								ABS IP 66 IK 07		PC-UL IP 66 IK 08	
Height	Width	Depth	Height	Width	Depth			Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
116	74	94	105	65	85	45	40	NSYTBS1179H	-	-	-
116	116	62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
116	116	133	105	105	125	45	80	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	121	105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
192	164	87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
192	164	105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
241	194	107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
291	241	128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
341	291	168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

ABS boxes for buttons, to be equipped



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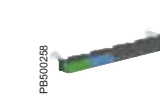
External dimensions (mm)			Number of holes	Cover	Ref.
Height	Width	Depth			
74	74	54	1	Grey	NSYTBS775C1
74	74	54	1	Yellow	NSYTBS775C1Y
116	74	62	2	Grey	NSYTBS1176C2
116	74	62	3	Grey	NSYTBS1176C3

Equipped button boxes, in ABS with IP 54



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External dimensions (mm)				
Height	Width	Depth		Reference
74	74	83	Emergency switching off	NSYTBS775B1Y
116	74	75	Start/stop	NSYTBS1176B2
116	74	75	Up / down / stop	NSYTBS1176B3

				
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Overall external dimensions (mm)			Overall internal dimensions (mm)			Set of 2 hinges	Set of 4 fixing lugs	Galvanised-steel plate	Insulating plate	Terminal-block support bar
Height	Width	Depth	Height	Width	Depth					
74	74	54	65	65	47	-	-	-	-	-
89	89	54	80	80	47	-	-	-	-	-
116	74	62	105	65	55	-	-	-	-	-
116	116	62	105	105	55	-	NSYAEFTB	-	-	-
138	93	72	125	80	65	NSYAEDH20TB	NSYAEFTB	-	-	-
164	121	87	150	105	80	NSYAEDH20TB	NSYAEFTB	-	-	-
192	121	87	175	105	80	NSYAEDH20TB	NSYAEFTB	-	-	IMT34000
192	121	105	175	105	100	NSYAEDH40TB	NSYAEFTB	-	-	IMT34000
192	164	87	175	150	80	NSYAEDH20TB	NSYAEFTB	NSYAMP1916TB	NSYAMPA1916TB	IMT34000
192	164	105	175	150	100	NSYAEDH40TB	NSYAEFTB	NSYAMP1916TB	NSYAMPA1916TB	IMT34000
241	194	87	225	175	80	NSYAEDH20TB	NSYAEFTB	NSYAMP2419TB	NSYAMPA2419TB	IMT34000 or IMT34001
241	194	107	225	175	100	(1) NSYAEDH20TB or NSYAEDH40TB	NSYAEFTB	NSYAMP2419TB	NSYAMPA2419TB	IMT34000 or IMT34001
241	194	127	225	175	120	NSYAEDH40TB	NSYAEFTB	NSYAMP2419TB	NSYAMPA2419TB	IMT34000 or IMT34001
291	241	88	275	225	80	NSYAEDH20TB	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
291	241	128	275	225	120	-	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
291	241	128	275	225	120	(1) NSYAEDH20TB or -	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
291	241	168	275	225	160	-	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
341	291	128	325	275	120	NSYAEDH20TB	NSYAEFTB	NSYAMP3429TB	NSYAMPA3429TB	IMT34002
341	291	168	325	275	160	-	NSYAEFTB	NSYAMP3429TB	NSYAMPA3429TB	IMT34002

(1) Several cover depths for the same external dimensions.

Anti-corrosion valve and coupling kit



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IP66 ventilation and coupling accessories	Ref.
Valve, 16 litres/h, Ø 12	NSYCAG12LPH1
Valve, 120 litres/h, Ø 12	NSYCAG12LPH2
Coupling kit, Ø 32	13934

Fixings

Screw
NSYAMFESTB
Stand-offs or spacer

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Stand-offs and spacers	Ref.
Set of four 15-mm spacers	NSYAMFEP154TB
Set of four 20-mm spacers	NSYAMFEP204TB
Set of four 30-mm spacers	NSYAMFEP304TB
Set of four 15-mm self-tapping stand-offs	NSYAMFET154TB
Set of four 20-mm self-tapping stand-offs	NSYAMFET204TB
Set of four 30-mm self-tapping stand-offs	NSYAMFET304TB
Batch of 50 M4 screws for stand-offs and spacers	NSYAMFESTB
Screws for accessories	Ref.
Pack of 100 4-mm Pozidrive and slotted self-tapping screws	NSYAMFSTB

Cable glands and quick entries



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	M12	M16	M20	M25	M32	M40
IP 68 cable glands (1)	ISM71501	ISM71502	ISM71503	ISM71504	ISM71505	ISM71506
IP 67 quick entries (2)	IMT36179	IMT36180	IMT36181	IMT36182	IMT36183	IMT36184

(1) Other dimensions (see page 1/35).

(2) Other dimensions (see page 1/34).

Terminal blocks



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Terminal blocks	Ref.	Ref.	Ref.
4-hole terminal blocks	Black (live)	Blue (neutral)	Green (earth)
2 x 10 ² + 2 x 16 ²	IMT34003	IMT34005	IMT34007
3 x 16 ² + 1 x 25 ²	IMT34004	IMT34006	IMT34008

Composition accessories

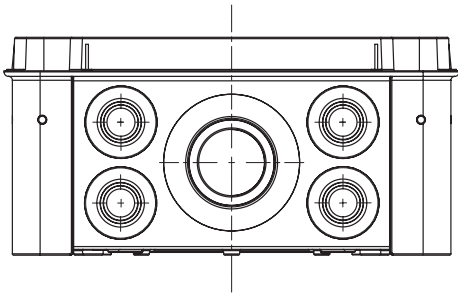
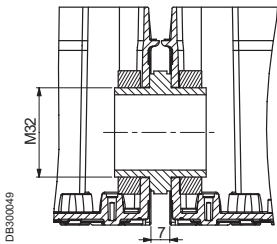
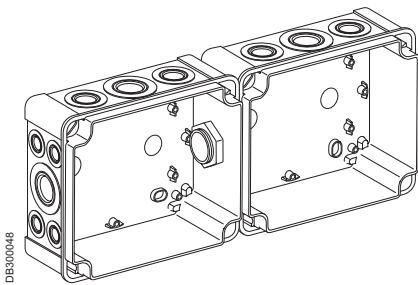
Coupling accessories



Coupling kit

- The coupling kit allows you to join several boxes with dimensions from 138 × 93 mm, while keeping IP 66.
- The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled.
- The kit consists of 2 linking parts, nuts and seals.

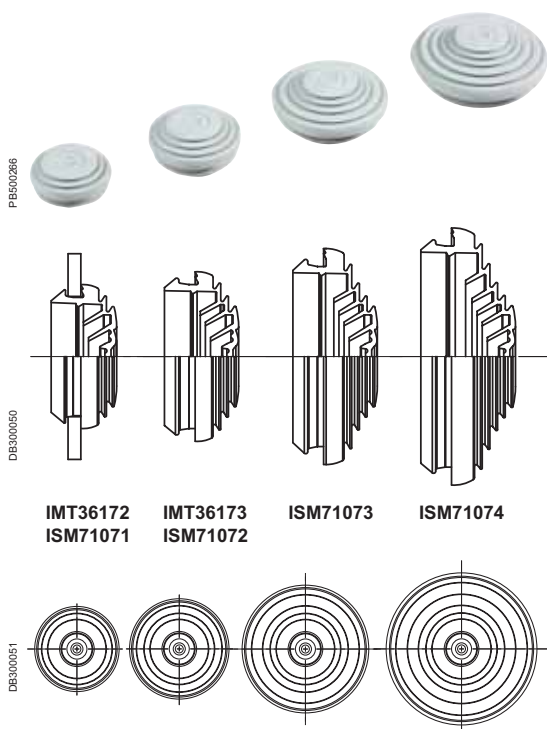
Description	Minor pack.	Reference
Coupling kit	1	13934



Composition accessories

Cable-entry accessories

1



Mixed membrane entries for IP 55 direct cable entries

Common accessories for the Thalassa and Spacial offers

- Membrane entries with multiple membranes.
- IP 55.
- RAL 7035.
- Patented concentric cutting. A simple screwdriver is enough. Enables ultra-quick connection with the choice of several cable diameters for the same membrane entry.
- Material: SBS.
- Minor packaging of 10 pieces.
- Warning: The IP becomes 55.
- Suitable for walls from 2 to 3.2 mm.

Ø (mm)		Minor pack.	References and colours	
Drill hole	Cable / conduit		RAL 9010 white	RAL 7035 light grey
23	4 - 20	10	IMT36172	ISM71071
29	4 - 25	10	IMT36173	ISM71072
36	4 - 32	10	-	ISM71073
44	4 - 40	10	-	ISM71074

Installation of IP 55 entries

- Insertion of rigid cables:
 - Strip at least 100 mm.
 - Push the wires through the membrane.
- Insertion of flexible cables:
 - Pierce partially and soften the membrane with a 4 to 5.5-mm screwdriver.
 - Pass the cable through the membrane.
- Insertion of conduits:
 - Peel the necessary step: 16, 20, 25, 32 or 40 mm.
 - Push the conduit.

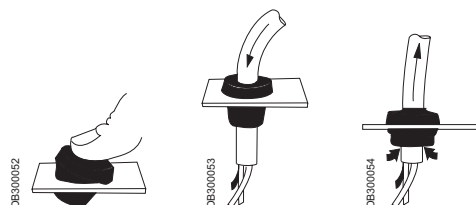
IP 67 quick cable entries

- IP 67.
- Material: EPDM plastic.
- Suitable for walls from 1 to 4 mm (0.5 to 2 mm for ref. **IMT36179**).
- Quick installation with no tools.
- Installation direction: the conical part is inside the box.

ISO	Ø of drill hole	Cable Ø (mm)	Minor pack.	Reference
M12	12.5	3 - 5	50	IMT36179
M16	16	5 - 7	50	IMT36180
M20	20.3	7 - 10	50	IMT36181
M25	25.3	10 - 14	50	IMT36182
M32	32.4	14 - 20	50	IMT36183
M40	40.7	20 - 26	25	IMT36184
M50	50.7	26 - 35	25	IMT36185

Application

- Push the cable entry into the hole. The conical part must be inserted into the box.
- Prepare and loosen the cable entry with a screwdriver. Pass the cable through the cable entry.
- Pull the cable back slightly to fix it in place. The installation is complete.



Composition accessories

Cable-entry accessories

Cable-gland, disc and plug selection table

Ø	1-cable cable gland			Multi-cable disc		Gasket	Blanking plug	Transport plug
	Ref.	Ø min / max (mm)	drill \ (2)	Ref.	Number / Ø (mm)			
M12	ISM71501	3 / 6.5	12.2 (0 + 0.2)	-	-	IMT36151	IMT36161	-
M16	ISM71502	4 / 8	16.2 (0 + 0.2)	IMT36157	2 × Ø 4	IMT36152	IMT36162	IMT36167
M20	ISM71503	6 / 12	20.2 (0 + 0.2)	IMT36158	3 × Ø 4	IMT36153	IMT36163	IMT36168
M20 (1)	IMT36150	6 / 12	20.2 (0 + 0.2)	IMT36158	3 × Ø 4	IMT36153	IMT36163	IMT36168
M25	ISM71504	11 / 17	25.2 (0 + 0.2)	IMT36159	4 × Ø 5	IMT36154	IMT36164	IMT36169
M32	ISM71505	15 / 21	32.2 (0 + 0.3)	IMT36160	6 × Ø 5	IMT36155	IMT36165	IMT36170
M40	ISM71506	19 / 28	40.5 (0 + 0.3)	-	-	IMT36156	IMT36166	IMT36171

(1) Cable-gland with high resistance to fire.

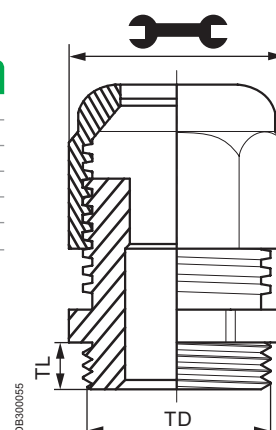
(2) In brackets: tolerance.



ISO cable-gland

Ø	Reference	TD	TL	Thread
M12	ISM71501	12	6	15
M16	ISM71502	16	8	19
M20	ISM71503 - IMT36150	20	10	24
M25	ISM71504	25	8	29
M32	ISM71505	32	10	36
M40	ISM71506	40	10	46

- IP 68, 5 bars.
- According to standard IEC 62208.
- RAL 7035 grey.
- Material: PA6, neoprene gasket.
- Usage temperature: – 30 ... + 80 °C up to + 150 °C intermittently.
- The cable-glands are supplied with nuts.
- The IP is guaranteed with no gasket between the cable-gland and the thermoplastic box. A gasket available as an accessory guarantees the seal in the event of installation on a steel enclosure.
- The cable-gland (ref. **IMT36150**) is especially recommended for security circuits (glow wire resistance: 960 °C).
- Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40).



Multi-cable disc



Blanking plug



Transport plug

Cable-gland gasket

- Batch of 100 (M12 to M25), 50 (M32), 25 (M40).

Multi-cable disc

- It is possible to pass several cables through a single cable-gland using the multi-cable bushing.

Blanking plug

- It is screwed into the cable-gland's place.
- Pack of 20 plugs (M12 to M15), 10 plugs (M32), 5 plugs (M40).

Transport plug

- It is installed to block the cable-gland during transport or during maintenance operations.
- Pack of 20 plugs (M16 to M25), pack of 10 (M32), pack of 5 (M40).

Composition accessories

Fixing accessories

1

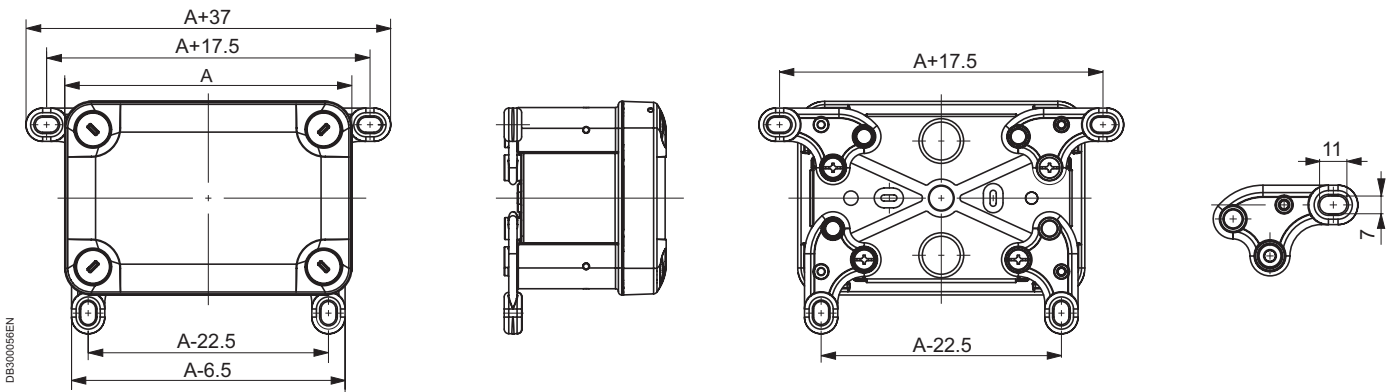


Set of four fixing lugs

- They maintain IP 66.
- Plastic fixing lugs for installation on boxes with dimensions from 116 × 116 mm.
- Option of vertical or horizontal installation.
- Kit made up of 4 legs + screws.
- Installation by a single screw at the last moment, with the box closed and equipped.
- Loading capacity on the body: 30 kg/m², on the cover: 10 kg/m².
- See compatibility with the boxes in the table for quick selection of Thalassa accessories on page 1/32.

Description	Minor pack.	Reference
Set of 4 fixing lugs	1	NSYAEFTB

Fixing lugs (internal dimensions)



Composition accessories

Cover accessories

1



Set of 2 hinges

- These hinges maintain IP 66.
- The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 × 93 mm.
- The hinge allows the lid to open fully to 200°.
- Maximum admissible load on the hinged cover 10 kg / m².
- The hinges (2 per set) are delivered with the fixings and instructions required for installation.
- See compatibility with the boxes in the quick selection table on page 1/32.

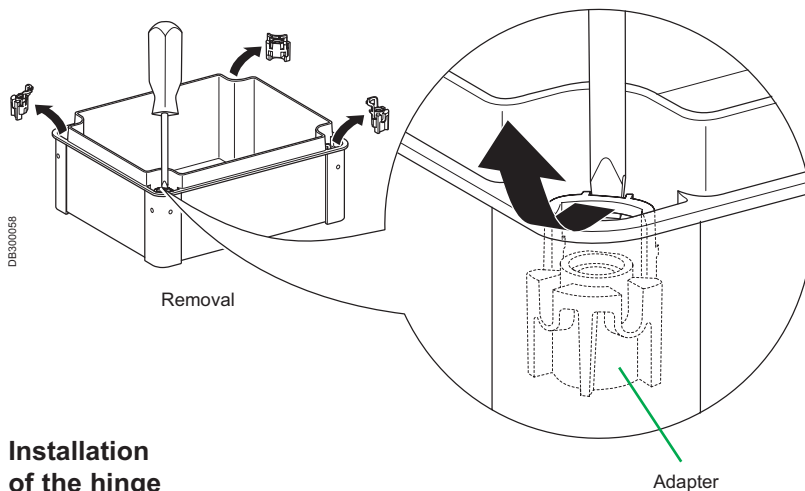
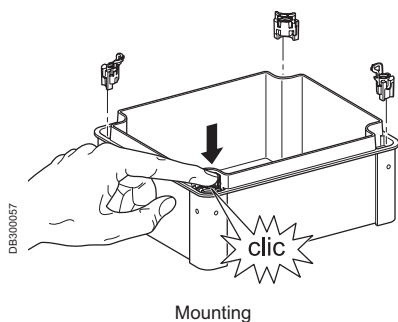
Name	Minor pack.	Height of the lid (mm)	
		20	40
Set of 2 hinges	1	NSYAEDH20TB	NSYAEDH40TB



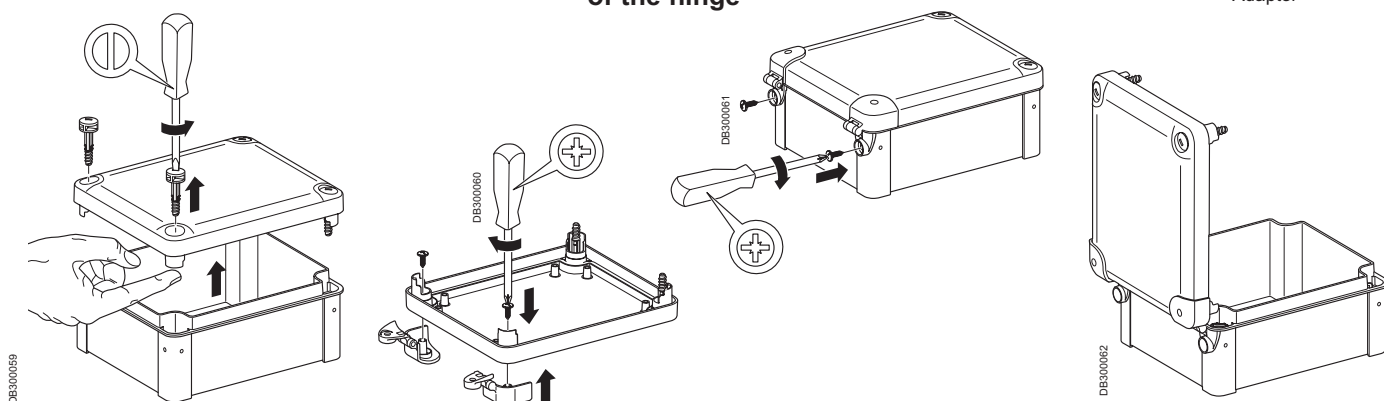
Practical

- The hinge allows an opening angle > 200°.
- The hinge does not require any machining and is installed easily even with the box already equipped.

Use of cover adapter clips



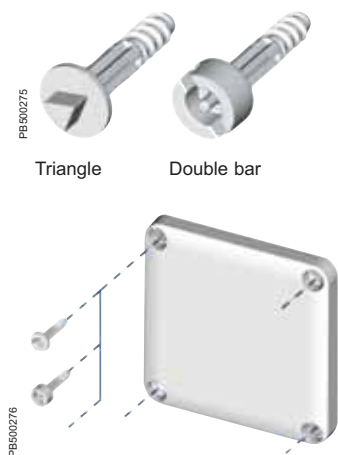
Installation of the hinge



Composition accessories

Cover accessories

1



Set of 4 shape screws

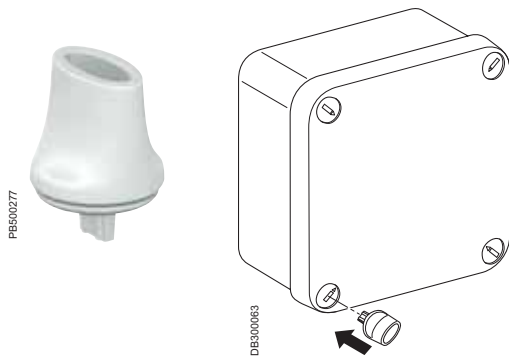
- The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm.
- With box sizes from 138 × 93 × 72 mm, these screws can be replaced for screws with different standardised heads, to comply with most cases.
- After removing the standard screw, simply position the new screw by pressing on it.
- The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shape screws (see drawing on page 1/37).

Smart

- A single key for opening the boxes as well as the other enclosures of your installation.

Description		Minor pack.	Height of the lid (mm)		
			20	40	60
Triangle	6.5 mm	1	NSYAEDST620TB (1)	-	-
	8 mm	1	NSYAEDST820TB	-	-
Double bar	3 mm	1	NSYAEDSB320TB	-	-
	5 mm	1	NSYAEDSB520TB	-	-
Spare standard plastic screw		1	NSYAEDS20TB	NSYAEDS40TB	NSYAEDS60TB

(1) CNOMO.



Pack of 4 handles

- The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges.
- It snaps onto the head of the standard plastic screw.

Description	Minor pack.	Reference
Pack of 4 handles	1	NSYAEDKTB

Mounting accessories

Installation accessories



Galvanised-steel plate.

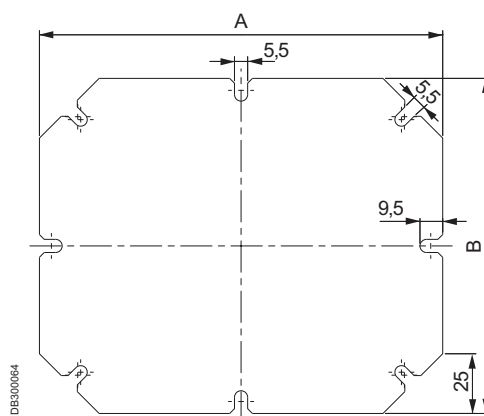


Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750 °C.

Mounting plates

- Mounting plates made from galvanised-steel (thickness: 1.5 mm) and an insulating material (polyester thickness: 2.5 mm) to adapt to all usage scenarios. Plates supplied without screws.
- Fixing by means of $\varnothing$ 4-mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**.
- To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.
- To stack several mounting plates, use the spacers, ref. **NSYAMFEP154TB**, **NSYAMFEP204TB**, **NSYAMFEP304TB** and the screw **NSYAMFESTB**.

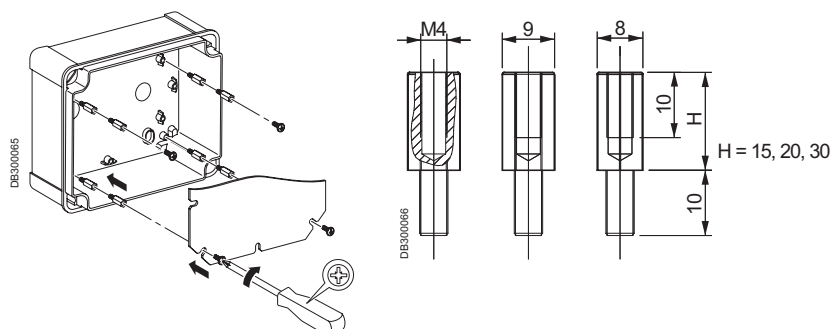
Box (mm)		Mounting plate				Minor pack.
		Steel	Insulating	Dimensions (mm)		
Height	Width			A	B	
192	164	NSYAMP1916TB	NSYAMPA1916TB	168.5	140	1
241	194	NSYAMP2419TB	NSYAMPA2419TB	215	168.5	1
291	241	NSYAMP2924TB	NSYAMPA2924TB	265	215	1
341	291	NSYAMP3429TB	NSYAMPA3429TB	315	265	1
Pack of 100 screws Ø 4 × 10 mm		NSYAMFSTB	NSYAMFSTB	-		1



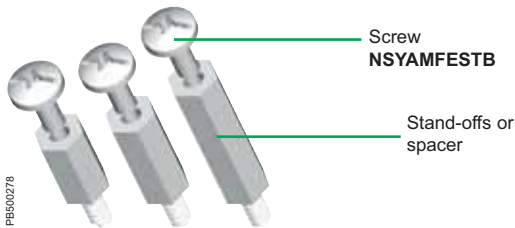
Stand-offs and spacers

- Steel stand-offs consisting of a $\varnothing$ 4-mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. **NSYAMFESTB**, or of a spacer.
- Steel spacer for installation on the stand-offs. M4 thread and tapping.

Height (mm)	Set of four M4 self-tapping stand-offs	Set of four M4 spacers	Minor pack.
15	NSYAMFET154TB	NSYAMFEP154TB	1
20	NSYAMFET204TB	NSYAMFEP204TB	1
30	NSYAMFET304TB	NSYAMFEP304TB	1



1



Screw for stand-offs and spacers

- M4 × 10 mm screw for fixing cards on the spacers and stand-offs.
- Batch of 50 screws.

Smart

- The plate always at the right level.
- A single Ø 4-mm screw for fixing any element.

Description	Minor pack.	Reference
Batch of 50 ISO screws, Ø 4 x 100, for M4 spacer and stand-offs	1	NSYAMFESTB

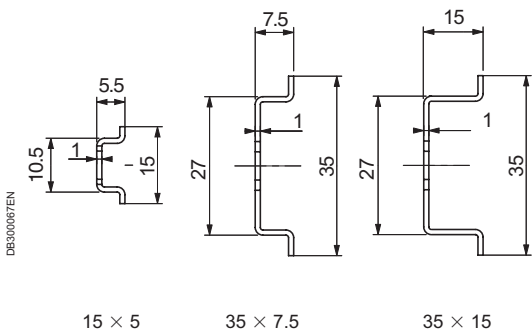
Rails

Smart

- A 15 × 5-mm rail is provided for the compact terminal blocks.
- To raise the rail, use stand-offs ref. NSYAMFET154TB, NSYAMFET204TB, NSYAMFET304TB and the screw NSYAMFESTB.

Rails

- Symmetric DIN rails (15 × 5 mm, 35 × 7.5 mm, 35 × 15 mm). Supplied without screws (except for the 15 × 5 mm rails).
- Fixing of the rails with Ø 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. NSYAMFSTB.

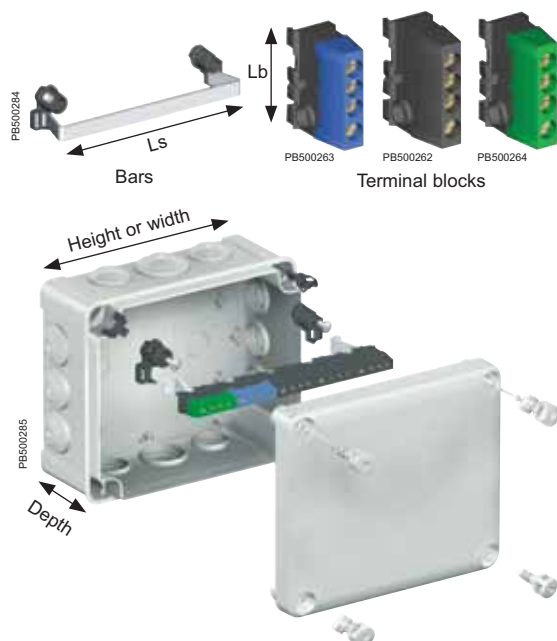


		
15 × 5 mm	35 × 7.5 mm	35 × 15 mm

For boxes with height or width						
(mm)	Ref.	Minor pack.	Ref.	Minor pack.	Ref.	Minor pack.
105	NSYAMRD11155TB	10	NSYAMRD11357TB	10	-	-
150	NSYAMRD16155TB	10	NSYAMRD16357TB	10	-	-
175	NSYAMRD19155TB	10	NSYAMRD19357TB	10	-	-
225	NSYAMRD24155TB	10	NSYAMRD24357TB	10	NSYAMRD243515TB	10
275	NSYAMRD29155TB	10	NSYAMRD29357TB	10	NSYAMRD293515TB	10
325	NSYAMRD34155TB	10	NSYAMRD34357TB	10	NSYAMRD343515TB	10

Cable management accessories

Terminal blocks



IP 2X terminal blocks

- The terminal-block support bar is particularly well suited to the thermoplastic boxes.
- Boxes with sizes from 192×116 mm can accommodate a terminal-block support bar of 12×2 mm.
- The screwing terminal blocks are easily clipped onto this bar.
- Terminal-block connection capacity: see the selection table below.

Description	Height or width	Min. depth	Minor pack.	Ref.
Terminal-block support bar	192	87	1	IMT34000
	241	87	1	IMT34001
	291	128	1	IMT34002

Description	Terminal-block length Lb (mm)	Black (live)	Blue (neutral)	Green (earth)
4-hole terminal blocks $2 \times 10^2 + 2 \times 16^2$	30	NSYAPT22NTB	NSYAPT22BTB	NSYAPT22GTB
4-hole terminal blocks $3 \times 16^2 + 1 \times 25^2$	36	NSYAPT31NTB	NSYAPT31BTB	NSYAPT31GTB
Minor pack.		10	5	5

Selection table

- Number of terminal blocks per support.

	Terminal blocks $2 \times 10^2 + 2 \times 16^2$ 4 holes	Terminal blocks $3 \times 16^2 + 1 \times 25^2$ 4 holes	Support length Ls (mm)
Support for 192 mm	4	4	140
Support for 241 mm	6	5	185
Support for 291 mm	8	6	235



Earth terminal block

Description	Minor pack.	Reference
Earth terminal block	10	IMT34009

- The earth terminal snap fits into boxes with dimensions of less than 116×116 mm.
- Maximum connection capacity: 2×2.5^2 .

Thermal management

Natural ventilation



Sealed anti-condensation valve

- Controls the pressure to avoid condensation following an internal temperature increase.
- Maintains IP 68.
- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent.
- Usage temperature: -40...+105 °C.

Drill Ø	Permeability (1)	Pressure dif-ference (2)	Minor pack.	Reference
M12	16 litres/h	$\Delta P < 1$ bar	10	NSYCAG12LPH1
M12	120 litres/h	$\Delta P < 0.1$ bar	10	NSYCAG12LPH2

(1) Air flow under $\Delta P = 0.7$ bar.
(2) Condition for IP 68.

Applications

- Protection of equipment for luminaires, industrial control, transportation, pumps, etc.