

# STAR



## IP65 Boxes for industrial sockets

The STAR series comprises a set of enclosures for surface installation manufactured with halogen-free high-durability plastic materials. They are intended for housing power sockets or control and signalling elements. They are intended for installation in places requiring power points for fixed machinery, portable tools or auxiliary electrical equipment. Their sphere of application therefore includes industrial premises, workshops, warehouses, depot areas, building sites, etc.. or any place requiring a high degree of protection and safety.

Their design allows them to be installed jointly with junction boxes of the Ecology series in order to create large-sized power and distribution panels intended for indoor and outdoor settings, provided that the components fulfil the applicable legislation.

IP  
65

CE

DVE



STAR

### STAR Technical Specifications

- Degree of protection: IP65.
- Resistance to impact: IK08.
- Glow wire resistance: 650 °C.
- Ball pressure test: 70 °C.
- Ambient temperature range: -25 °C / +40 °C.
- Maximum operating voltage: 1000 V AC/1500 V DC.
- Double insulation: Class II.

### STAR Certifications

CE

DVE

Compliant with the Low Voltage Directive 2014/35/EU.  
Standards: UNE-EN 62208 and UNE-EN 61439-1  
(as applicable).

Intended for installation wherever a high degree of protection and safety is required



### Product series

- Surface enclosures with a capacity of 6, 9, 12, 18 and 24 modules with transparent window.
- Interface box to provide greater capacity.

### Material

- Halogen-free plastic materials.
- Body: ABS RAL 7035.
- Transparent window: PC tinted window, with UV protection.

### Supply

- Supplied in individual cardboard packaging. When several items are sent together, they are bundled together with transparent film.
- The enclosure is supplied with the windows assembled on the cover and the hinges attached to the base, leaving the cover totally free for handling by the installer. The rails are supplied assembled in all references.
- Accessory bag:
  - Base/cover screws.
  - Grey module cover (6 modules).
  - Module identification strips.
  - Hermetic caps.
  - Cover-base hinges.
  - Assembly instructions.

Enclosures for surface installation, intended for housing power sockets or control and signalling elements

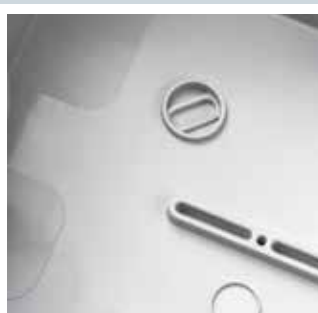
### Neutral and earth bars

In some markets, the technical regulations governing installation require neutral and earth conductors to be connected to a common busbar. The base of these boxes has specific supports for this purpose. The neutral and earth bars will be screwed to these supports, which are supplied as an accessory.

They can be supplied pre-assembled by ordering the /RR references.

### Neutral and earth bar structure

Ref. No.	Terminal		Cable section	
	N	E	NEUTRAL	EARTH
22007	4+2	4+2	4x(2,5-6 mm <sup>2</sup> )+2x(4-10 mm <sup>2</sup> )	4x(2,5-6 mm <sup>2</sup> )+2x(4-10 mm <sup>2</sup> )
22001	8+1	8+1	5x(2,5-6 mm <sup>2</sup> )+3x(4-10 mm <sup>2</sup> )+1x(16-35 mm <sup>2</sup> )	5x(2,5-6 mm <sup>2</sup> )+3x(4-10 mm <sup>2</sup> )+1x(16-35 mm <sup>2</sup> )
22002	12+2	12+2	6x(2,5-6 mm <sup>2</sup> )+6x(4-10 mm <sup>2</sup> )+1x(10-25 mm <sup>2</sup> )+1x(16-35 mm <sup>2</sup> )	6x(2,5-6 mm <sup>2</sup> )+6x(4-10 mm <sup>2</sup> )+1x(10-25 mm <sup>2</sup> )+1x(16-35 mm <sup>2</sup> )
22003	16+2	16+2	8x(2,5-6 mm <sup>2</sup> )+8x(4-10 mm <sup>2</sup> )+1x(10-25 mm <sup>2</sup> )+1x(16-35 mm <sup>2</sup> )	8x(2,5-6 mm <sup>2</sup> )+8x(4-10 mm <sup>2</sup> )+1x(10-25 mm <sup>2</sup> )+1x(16-35 mm <sup>2</sup> )



## Base

- Base with double height providing greater space on the inside for wiring and devices, and a reinforcement rib that delivers greater rigidity.
- The sides have marks to facilitate the positioning of the bushing for joining boxes.
- The top and bottom sides have knock-outs with the standard metric diameters so that they can be quickly removed with a screwdriver for cable and pipe entry.
- The bottom of the base is fitted with supports for attaching neutral and earth bars, as well as the housings for attaching the DIN rail.
- The base has raised lines with different housings for fixing mounting plates, rails, bars, etc.

## DIN rail attachment

- The rail is clipped and screwed to the base. The rails are supplied assembled in the base.

## Wall-mounting

- Wall-mounting is by means of four screws, directly from the housings located at the bottom of the base provided for this purpose. These housings are covered with hermetic caps (supplied in the accessories bag, ref. 77650) to maintain the degree of protection and dielectric strength.

## Frame

- The frame is used for placing the power sockets and has a blank vertical area. Frame size varies depending on sizes, and all types of sockets can be fitted.
- The frame perimeter and the front of the box have protection from dust and water. The front side includes a sealing gasket on the window that guarantees the IP protection from dust and water.
- The geometry of the frame and its constituent elements give the part greater rigidity. The frame-base unit is closed by means of captive screws (supplied in the accessory bag).



## Window

- The window has reinforcement ribs to provide rigidity and pressure on the sealing gasket of the frame that guarantees IP protection of the assembly.
- Handle with vertical opening in 6 and 9-modules models, and 180° reversible horizontal window opening in 12, 18 and 24-module models.
- Lock with the IDE logotype with pressure-operated opening and closing.
- The lock can be replaced with key locks or triangular locks (inserts supplied as accessories).

## Frame-base hinge system

- This series has a frame-base hinge system that enhances manoeuvrability between both parts, guaranteeing both vertical and horizontal opening of 180°.
- The hinges' high resistance means that when the base is secured to the wall, the frame can be left hanging even if it has been totally installed with sockets or with equipment.
- The unit is assembled and disassembled by gently pressing on the ends of the part, which is symmetrical and reversible.



### IP65 boxes for industrial sockets

Reference No.	No. of modules	Dimensions	Weight	Power dissipation according to temperature increase °C P(W)*					Type
				20	25	30	35	40	
<b>CSNPLUS</b>	-	HEIGHT X WIDTH X DEPTH	KG						
<b>CSN6PT</b>	1x6 DIN rail	436x142x124	1.00	14.6	18.3	21.9	25.6	29.2	65TC00
<b>CSN9PT</b>	1x9 DIN rail	436x210x137	1.09	15.5	19.4	23.3	27.1	31.0	65TC06
<b>CSN12PT</b>	1x12 DIN rail	436x310x147	1.38	19.3	24.1	29.0	33.8	38.6	65TC09
<b>CSN18PT</b>	1x18 DIN rail	436x418x147	1.97	25.8	32.2	38.7	45.1	51.6	65TC12
<b>CSN24PT</b>	1x18 DIN rail	436x418x147	2.51	32.0	39.9	47.9	55.9	63.9	65TC18
<b>CSN24PT</b>	2x12(24) DIN rail	688x310x147	3.44	37.1	46.4	55.7	65.0	74.3	65TC24

#### HALOGEN-FREE PLASTIC MATERIALS

Frame and base in ABS RAL 7035 grey.

PC transparent window, tinted with UV protection.

IP65 - Surface.

\* Calculations obtained according to the CEI 890:1997 standard (including Corrigendum 1998). Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear.



#### CSNPLUS

TOP: 2xM20 - 1xM40  
 BOTTOM: 2xM20 - 1xM40  
 REAR OBLONG: 2xOB25x25



#### 1x6 modules CSN6PT

TOP: 2xM20 - 1xM40  
 BOTTOM: 2xM20 - 1xM40  
 REAR OBLONG: 2xOB25x25



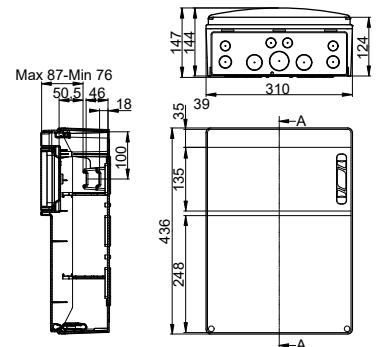
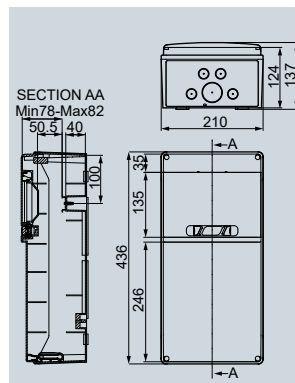
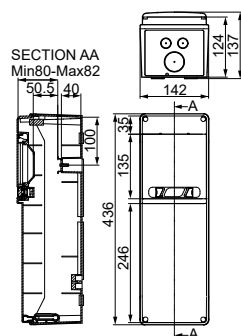
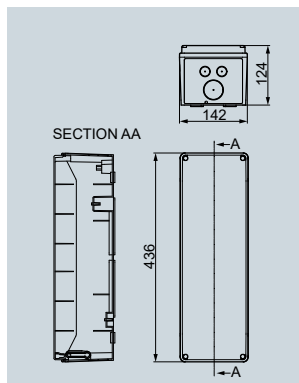
#### 1x9 modules CSN9PT

TOP: 4xM20 - 1xM40  
 BOTTOM: 2xM20 - 1xM40  
 REAR OBLONG: 2xOB25x25



#### 1x12 modules CSN12PT

TOP: 8xM20-2xM25/32-1xM40  
 BOTTOM: 4xM20-2xM25-2xM32-1xM40  
 REAR OBLONG: 2xOB 25/32/25



## IP65 boxes for industrial sockets. With neutral and earth bars

Reference No.	No. of modules	Dimensions	Weight	Power dissipation according to temperature increase °C P(W)*					Type
				20	25	30	35	40	
		HEIGHT X WIDTH X DEPTH	KG						
<b>CSNPLUS/RR</b>	-	436x142x124	1.08	10.5	13.2	15.8	18.4	21.0	65TC00
<b>CSN6PT/RR</b>	1x6 DIN rail	436x142x137	1.17	14.3	17.9	21.5	25.1	28.7	65TC06
<b>CSN9PT/RR</b>	1x9 DIN rail	436x210x137	1.47	16.7	20.9	25.1	29.2	33.4	65TC09
<b>CSN12PT/RR</b>	1x12 DIN rail	436x310x147	2.14	24.1	30.1	36.1	42.1	48.2	65TC12
<b>CSN18PT/RR</b>	1x18 DIN rail	436x418x147	2.70	30.0	37.5	45.1	52.6	60.1	65TC18
<b>CSN24PT/RR</b>	2x12(24) DIN rail	688x310x147	2.94	30.4	38.0	45.7	53.3	60.9	65TC24

### HALOGEN-FREE PLASTIC MATERIALS

Frame and base in ABS RAL 7035 grey.

Transparent PC tinted window, with UV protection.

IP65 - Surface.

/RR: With neutral and earth bars.

\* Calculations obtained according to the CEI 890:1997 standard (including Corrigendum 1998). Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear.



### 1x18 modules

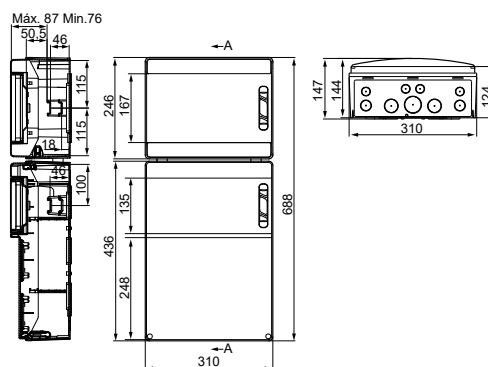
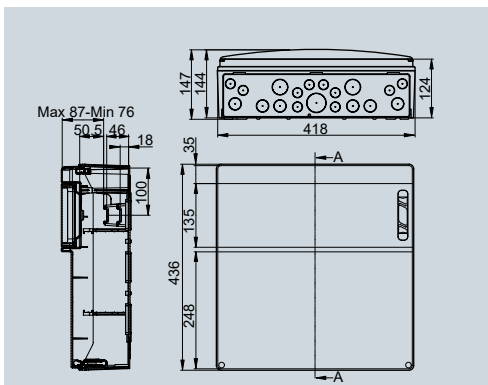
#### CSN18PT

TOP: 12xM20-6xM25-2xM32-1xM40  
 BOTTOM: 10xM20-6xM25-2xM32-1xM40  
 REAR OBLONG: 2xOB 25/32/25

### 2x12 (24) modules

#### CSN24PT

TOP: 6xM20-2xM25-2xM32-1xM40  
 BOTTOM: 4xM20-2xM25-1xM40  
 REAR OBLONG: 4xOB 25/32/25



# STAR KNOCK-OUT

## IP65 boxes for industrial sockets with knock-out lids



### Product series

- Surface enclosures with a capacity 6, 9, 12, 18 and 24 modules with transparent window.
- Wall-mounted enclosures with knock-out and interchangeable covers, to install different types of sockets with multiple combinations.
- Interface box available to provide greater capacity.

### Material

- Halogen-free plastic materials.
- Body: ABS RAL 7035.
- Transparent window: PC tinted window, with UV protection.

### Supply

- Supplied in individual cardboard packaging. When several items are sent together, they are bundled together with transparent film.
- The enclosure is supplied with the windows assembled on the cover and the hinges attached to the base, leaving the cover totally free for handling by the installer. The rails are supplied assembled in all references.
- Accessory bag:
  - Base/cover screws.
  - Grey module cover (6 modules).
  - Module identification strips.
  - Hermetic caps.
  - Cover-base hinges.
  - Assembly instructions.

## Watertight boxes for installation of industrial sockets

### Interchangeable covers

The enclosure is supplied with the interchangeable covers as below:

Reference No.	Plain covers	16A/ IP67 Schuko-type covers	IP44/IP54 Schuko-type covers
	REF. 94270	REF. 94271	REF. 94272
PCSNPLUS	3	1	1
PCSN6PT	2	1	1
PCSN9PT	4	2	2
PCSN12PT	6	4	4
PCSN18PT	8	6	6
PCSN24PT	6	4	4

## Knock-out lids

Reference No.	Description	Bases	Current (A)	Poles	IP
94270	Plain covers: Supplied assembled. Remove the cover in order to install sockets.	Flush-fit	16	3P+N+E	IP44 - IP67
		Flush-fit	32	2P+E - 3P+E - 3P+N+E	IP44 - IP67
94271	16 A cover: Supplied in the box. Screw-in cover for socket installation.	Flush-fit	16	2P+E - 3P+E	IP44 - IP67
		Schuko-type	16	2P+E	IP67
94272	Schuko cover: Supplied in the box. Screw-in and clip-on cover for Schuko-type socket installation.	Schuko-type	16	2P+E	IP44 - IP54

## Possibility of lids



### 1 and 4. PLAIN COVER (Ref. 94270)

It is supplied assembled, with knock-outs for the installation of pilot lights or pushbuttons.

Remove the plain cover in order to install sockets.

- 16 A (3P+N+E) - IP44-IP67.
- 32 A IP44-IP67.

### 2. 16A COVER (Ref. 94271)

Screw-in cover for socket installation:

- 16 A (2P+E) (3P+E) - IP44-IP67.
- Schuko-type 16 A - IP67.

### 3. SCHUKO COVER (Ref. 94272)

Screw-in and clip-on cover for Schuko-type 16 A sockets - IP44-IP54.



# STAR KNOCK-OUT

## IP65 boxes for industrial sockets with knock-out lids

### IP65 boxes for industrial sockets. With knock-out lids

Reference No.	No. of modules	Dimensions	No. of covers	Weight	Power dissipation according to temperature increase °C P(W)*				Type	
					20	25	30	35		40
<b>PCSNPLUS</b>	-	HEIGHT X WIDTH X DEPTH		KG						
<b>PCSN6PT</b>	1x6 DIN rail	436x142x124	5	1.09	14.6	18.3	21.9	25.6	29.2	65TC00TR
<b>PCSN9PT</b>	1x9 DIN rail	436x210x137	4	1.17	15.5	19.4	23.3	27.1	31.0	65TC06TR
<b>PCSN12PT</b>	1x12 DIN rail	436x310x147	8	1.56	19.3	24.1	29.0	33.8	38.6	65TC09TR
<b>PCSN18PT</b>	1x18 DIN rail	436x418x147	14	2.08	25.8	32.2	38.7	45.1	51.6	65TC12TR
<b>PCSN24PT</b>	2x12 (24) DIN rail	688x310x147	20	2.77	32.0	39.9	47.9	55.9	63.9	65TC18TR
			14	3.50	37.1	46.4	55.7	65.0	74.3	65TC24TR

#### HALOGEN-FREE PLASTIC MATERIALS

Frame and base in ABS RAL 7035 grey.

Transparent PC tinted window, with UV protection.

IP65 - Surface.

\* Calculations obtained according to the CEI 890:1997 standard (including Corrigendum 1998). Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear.



#### PCSNPLUS

TOP: 2xM20 - 1xM40  
 BOTTOM: 2xM20 - 1xM40  
 OBLONG REAR: 2xOB25x25



#### 1x6 modules PCSN6PT

TOP: 2xM20 - 1xM40  
 BOTTOM: 2xM20 - 1xM40  
 OBLONG REAR: 2xOB25x25



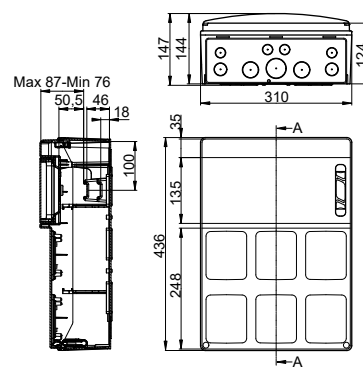
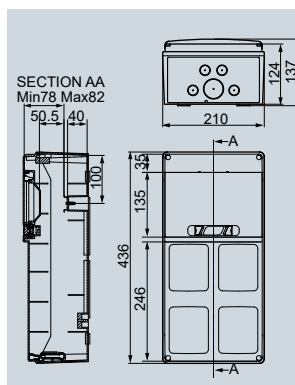
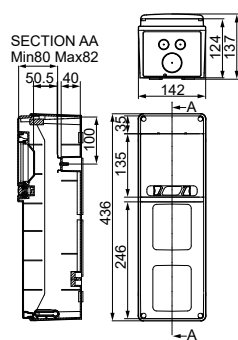
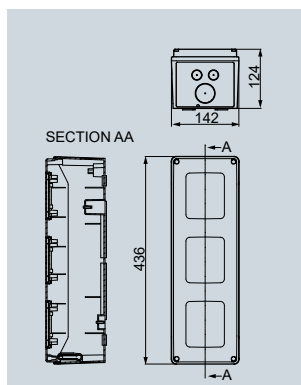
#### 1x9 modules PCSN9PT

TOP: 4xM20 - 1xM40  
 BOTTOM: 2xM20 - 1xM40  
 OBLONG REAR: 2xOB25x25



#### 1x12 modules PCSN12PT

TOP: 8xM20-2xM25/32-1xM40  
 BOTTOM: 4xM20-2xM25-2xM32-1xM40  
 OBLONG REAR: 2xOB 25/32/25



**IP65 boxes for industrial sockets. With knock-out lids. With neutral and earth bars**

Reference No.	No. of modules	Dimensions	No. of covers	Weight	Power dissipation according to temperature increase °C P(W)*				Type	
					20	25	30	35		40
<b>PCSNPLUS/RR</b>	-	HEIGHT X WIDTH X DEPTH 436x142x124	5	1.17	14.6	18.3	21.9	25.6	29.2	65TC00TR
<b>PCSN6PT/RR</b>	1x6 DIN rail	436x142x137	4	1.25	15.5	19.4	23.3	27.1	31.0	65TC06TR
<b>PCSN9PT/RR</b>	1x9 DIN rail	436x210x137	8	1.64	19.3	24.1	29.0	33.8	38.6	65TC09TR
<b>PCSN12PT/RR</b>	1x12 DIN rail	436x310x147	14	2.23	25.8	32.2	38.7	45.1	51.6	65TC12TR
<b>PCSN18PT/RR</b>	1x18 DIN rail	436x418x147	20	3.07	32.0	39.9	47.9	55.9	63.9	65TC18TR
<b>PCSN24PT/RR</b>	2x12 (24) DIN rail	688x310x147	14	3.80	37.1	46.4	55.7	65.0	74.3	65TC24TR

**HALOGEN-FREE PLASTIC MATERIALS**

Frame and base in ABS RAL 7035 grey.  
 Transparent PC tinted window, with UV protection.  
 IP65 - Surface.  
 /RR: With neutral and earth bars.

\* Calculations obtained according to the CEI 890:1997 standard (including Corrigendum 1998). Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear.

**Covers included**

Reference	Plain covers	16A/ IP67 Schuko-type covers	IP44/IP67 Schuko-type covers
	Ref. 94270	Ref. 94271	Ref. 94272
<b>PCSNPLUS</b>	3	1	1
<b>PCSN6PT</b>	2	1	1
<b>PCSN9PT</b>	4	2	2
<b>PCSN12PT</b>	6	4	4
<b>PCSN18PT</b>	8	6	6
<b>PCSN24PT</b>	6	4	4

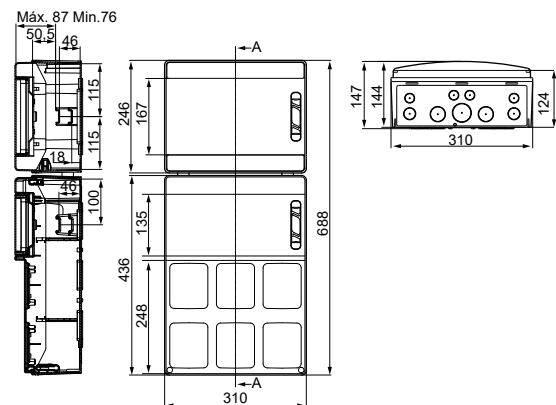
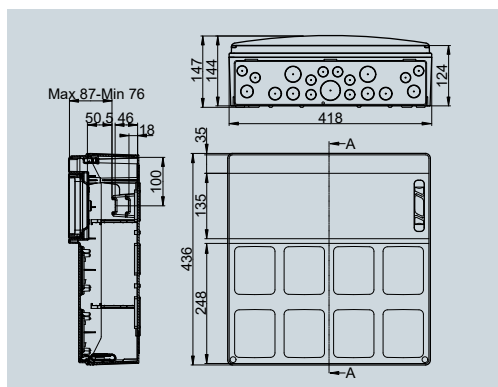


**1x18 modules  
PCSN18PT**

TOP: 12xM20-6xM25/32-1xM40  
 BOTTOM: 10xM20-6xM25-2xM32-1xM40  
 OBLONG REAR: 2xOB 25/32/25

**1x12 + 1x12 (24) modules  
PCSN24PT**

TOP: 6xM20-2xM25-2xM32-1xM40  
 BOTTOM: 4xM20-2xM25-2xM32-1xM40  
 OBLONG REAR: 4xOB 25/32/25



# STAR

## IP65 boxes for industrial sockets

### Special assemblies

4 DIFFERENT POSSIBILITIES.

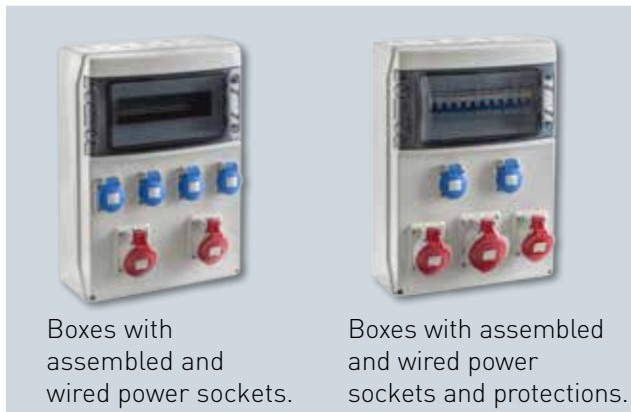
#### ASSEMBLE IT YOURSELF



Plain boxes.

Boxes with knock-out covers.

#### ORDER FROM THE FACTORY



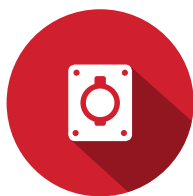
Boxes with assembled and wired power sockets.

Boxes with assembled and wired power sockets and protections.

### How to proceed



1. SELECT THE BOX.



2. CHOOSE THE POWER SOCKETS.



3. INDICATE THE REQUIRED PROTECTION.



4. SUBMIT ALL THE INFORMATION TO OUR TECHNICAL DEPARTMENT.

You can request a quotation and technical assessment at [export@ide.es](mailto:export@ide.es)

Special assemblies can be supplied in any combination, assembled and wired, with no minimum order quantity

### Proposal of sockets for Star boxes

#### SCHUKO-TYPE FLUSH-FIT SOCKETS



REF.	Poles	I	IP
00102	2P+E	16 A	44
00452	2P+E	16 A	54
00105	2P+E	16 A	67

#### IP44 FLUSH-FIT SOCKETS



REF.	Poles	I	Voltage
02301	2P+E	16 A	200/250 V
03302	3P+E	16 A	380/415 V
03303	3P+N+E	16 A	200/415 V
02304	2P+E	32 A	200/250 V
03305	3P+E	32 A	380/415 V
03306	3P+N+E	32 A	200/415 V

#### IP67 FLUSH-FIT SOCKETS



REF.	Poles	I	Voltage
02801	2P+E	16 A	200/250 V
03802	3P+E	16 A	380/415 V
03803	3P+N+E	16 A	200/415 V
02804	2P+E	32 A	200/250 V
03805	3P+E	32 A	380/415 V
03806	3P+N+E	32 A	200/415 V

See our standard assemblies on page 264, and our full range of plugs and sockets on page 294

## STAR Accessories



NEUTRAL AND EARTH BAR STRUCTURE.

BOX HANDLE FOR MOBILE INSTALLATIONS.

SECURITY KEY FOR WINDOW OR TRIANGLE KEY.

METAL SUPPORT (FOR ANY BOX SIZE).

BUSHING M25 - M40.

### Accessories and screws

	Ref.
Box handle for mobile installations 140x40	<b>92110</b>
Box handle for mobile installations 110x35	<b>92110/1</b>
Metal support	<b>48205</b>
Grey module cover (6 modules)	<b>77590</b>
Bag of membrane caps (1xM20-1xM25-2xM32)	<b>92592</b>
M20 membrane cap	<b>92589</b>
M25 membrane cap	<b>92590</b>
M32 membrane cap	<b>92591</b>
Hermetic caps	<b>77650</b>
Base frame internal hinge	<b>77020</b>
Window hinge	<b>22012</b>
4x13 Screws for bar support and for securing the 94270 and 94272 covers	<b>92611</b>
4x19 Screws for bar support and for securing the 94271 covers	<b>94292</b>

### Locks

	Ref.
Security lock with key	<b>92150</b>
Triangle lock (2 pieces) + key (1 piece)	<b>92000</b>
Standard lock	<b>22010</b>

### Bushings and cable glands

	Ref.
M25 bushing	<b>94273</b>
M40 bushing	<b>94274</b>
M25 cable gland	<b>92580</b>
M32 cable gland	<b>92582</b>
M40 cable gland	<b>92584</b>
M25 cable gland nut	<b>92581</b>
M32 cable gland nut	<b>92583</b>
M40 cable gland nut	<b>92585</b>

### Transparent windows

	Ref.
6 modules	<b>86570</b>
9 modules	<b>86580</b>
12 modules	<b>86550</b>
18 modules	<b>86560</b>
24 modules	<b>86550+86430</b>

### Neutral and earth bars

	Ref.
Support + neutral and earth bar (4+2 entries)	<b>22007</b>
Support + neutral and earth bar (8+1 entries)	<b>22001</b>
Support + neutral and earth bar (12+2 entries)	<b>22002</b>
Support + neutral and earth bar (16+2 entries)	<b>22003</b>

### Knock-out covers

	Ref.
Plain cover*	<b>94270</b>
16A cover**	<b>94271</b>
Schuko cover*	<b>94272</b>
4x13 screws for plain and Schuko-type covers	<b>92611</b>
4x19 screws for 16A cover	<b>94292</b>

\* Screws Ref. 92611 must be requested for fixing.  
 \*\* Screws Ref. 94292 must be requested for fixing.