ECOLOGY

IP65 Distribution boxes



The IP65 watertight distribution enclosures are manufactured with the highest-quality halogen-free plastic materials and are available in ABS and Polycarbonate. They have ample space for wiring and a modular capacity from 4 to 72 modules. They are intended for indoor and outdoor use, where enclosures with a high degree of protection and design are required.

The design allows installation together with STAR socket boxes to create large distribution and supply boards. For both indoor and outdoor use, provided the components meet the required standards.

Technical characteristics

Degree of protection: IP65.

Resistance to impact: IK08.

Ball pressure test: 70 °C.

Maximum operating voltage: 1000 V AC / 1500 V DC.

Maximum permissible current: 125 A.

Ambient temperature range: -25 °C / +60 °C.

Maximum materials temperature: +80 °C.

Glow-wire resistance: ABS: 650 °C. / Polycarbonate: 850 °C.

Electrical insulation class: Class II.

Compliance and certifications

Directive
Low Voltage Directive 2014/35/EU.

Standards
EN IEC 62208 - Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements.
EN IEC 61439-1 - Low-voltage switchgear and controlgear assemblies - Part 1: General rules (as applicable).

Certifications
VDE according to the applicable product standards.

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IP65 Distribution boxes



MODULAR CAPACITY:
4 to 72 modules.

ABS AND POLYCARBONATE

Halogen-free plastic materials with UV protection.

IP65 PROTECTION

Maximum protection against dust and powerful water splashes.

INDUSTRIAL APPLICATION FOR SELF-CONSUMPTION AND RENEWABLE ENERGIES

Designed for demanding environmental conditions.

MATERIAL

ABS version

- Base and frame: ABS Grey RAL 7035.
- Transparent window: PC tinted window.
- Halogen-free plastic materials, with UV protection.

Polycarbonate version

- Base and frame: PC Grey RAL 7035.
- Transparent window: PC tinted window.
- Recommended for outdoor use.
- Halogen-free plastic materials, with UV protection.

SUPPLY

- Supplied in individual packaging. When several items are sent together, they are bundled together with transparent film.
- TH35x7.5 symmetrical rail in enclosures with one row of modules and a compact frame in enclosures with two or more rows of modules. They are supplied assembled in all references.

Accessory bag:

- Hermetic caps.
- Cover-base locking screws.
- Grey module cover (6 modules).
- Module identification strips.

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 are inserted into a side housing, without a screw, and are secured by means of a screw on the other side.

They may be supplied as an accessory or they can be supplied already assembled by ordering the /RR references.

MATERIAL

- ABS version (CDN).
- Polycarbonate version (CDP).

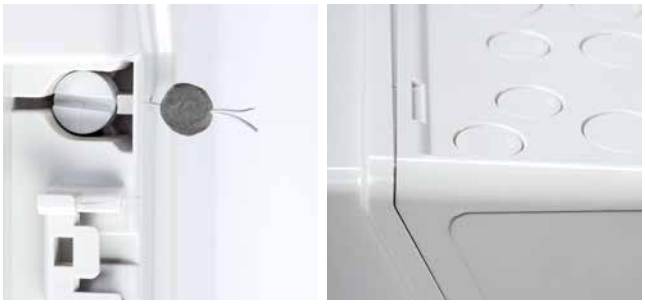
FINISH

- Grey RAL 7035.
- Transparent tinted window with UV protection.



BASE

- Base with double height DIN rail (from 12 modules) 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. These knockouts have central pre-marks to open other required diameters.
- 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. It also has pre-marks to open other diameters.



FRAME

- The frame has double height which gives it greater rigidity.
- The frame-base unit is closed by means of 1/4 turn captive sealable power screws. This creates a box that can be sealed at four points.
- Covered with a sealing gasket that guarantees the IP protection of the unit.



WALL-MOUNTING

There are two possible wall-mounting systems:

- 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 accessory bag, ref. 22650) to maintain the degree of protection and dielectric strength.
- Through the holes made for the purpose of securing the frame-base, by means of four screws, except CDN4G.



DIN RAIL ATTACHMENT

- For 1-row models, the rail is inserted into the side housing, without a screw, and is secured by means of a screw on the other side.
- For models with 2 or more rows, a detachable frame is inserted.
- Double rail and frame positioning height as of 12 modules of capacity.
- The DIN rail is attached to the base with 4x13 special screws for plastic.
- The rails are supplied assembled in the bases.



WINDOW

- Transparent tinted windows with UV protection.
- The window is covered with a sealing gasket to guarantee the assembly's IP protection.
- Reversible 180º horizontal window opening, except CDN4G box with 90º vertical opening.
- Lock with the IDE logotype with pressure-operated opening and closing, except CDN4G. The lock can be replaced with key locks or triangular locks (inserts supplied as accessories).

ECOLOGY

IP65 Distribution boxes



Degree of protection: IP65.
Type of installation: Surface.
Material: CDN: Frame and base in ABS.
CDP: Frame and base in PC.
Transparent window in tinted PC.
Colour: Grey RAL 7035.
Halogen-free plastic materials, with UV protection. Sealable.

IP65 distribution boxes. ABS

Reference	No. of modules	Dimensions			MOQ
		HEIGHT	WIDTH	DEPTH	
CDN4G	1x4 DIN rail	177	102	105	**15 units**
CDN4PT	1x4 DIN rail	231	166	113	**6 units**
CDN6PT	1x6 DIN rail	231	202	113	**6 units**
CDN8PT	1x8 DIN rail	231	238	118	**4 units**
CDN12PT	1x12 DIN rail	246	310	148	**4 units**
CDN18PT	1x18 DIN rail	286	418	148	**4 units**
CDN24PT	2x12 (24) DIN rail	436	310	148	**4 units**
CDN36PT2F	2x18 (36) DIN rail	436	418	148	**2 units**
CDN36PT3F	3x12 (36) DIN rail	586	310	148	**2 units**
CDN48PT	4x12 (48) DIN rail	874	310	148	**1 unit**
CDN54PT	3x18 (54) DIN rail	586	418	148	**1 unit**
CDN72PT	4x18 (72) DIN rail	874	418	148	**1 unit**

IP65 distribution boxes. ABS. With neutral and earth bars

Reference	No. of modules	Dimensions			MOQ
		HEIGHT	WIDTH	DEPTH	
CDN4G/R	1x4 DIN rail	177	102	105	**15 units**
CDN4PT/RR	1x4 DIN rail	231	166	113	**6 units**
CDN6PT/RR	1x6 DIN rail	231	202	113	**6 units**
CDN8PT/RR	1x8 DIN rail	231	238	118	**4 units**
CDN12PT/RR	1x12 DIN rail	246	310	148	**4 units**
CDN18PT/RR	1x18 DIN rail	286	418	148	**4 units**
CDN24PT/RR	2x12 (24) DIN rail	436	310	148	**4 units**
CDN36PT2F/RR	2x18 (36) DIN rail	436	418	148	**2 units**
CDN36PT3F/RR	3x12 (36) DIN rail	586	310	148	**2 units**
CDN48PT/RR	4x12 (48) DIN rail	874	310	148	**1 unit**
CDN54PT/RR	3x18 (54) DIN rail	586	418	148	**1 unit**
CDN72PT/RR	4x18 (72) DIN rail	874	418	148	**1 unit**

/RR: With neutral and earth bars.
/R: With neutral or earth bar.

IP65 distribution boxes. Polycarbonate

Reference	No. of modules	Dimensions			MOQ
		HEIGHT	WIDTH	DEPTH	
CDP4PT	1x4 DIN rail	231	166	113	**6 units**
CDP6PT	1x6 DIN rail	231	202	113	**6 units**
CDP8PT	1x8 DIN rail	231	238	118	**4 units**
CDP12PT	1x12 DIN rail	246	310	148	**4 units**
CDP18PT	1x18 DIN rail	286	418	148	**4 units**
CDP24PT	2x12 (24) DIN rail	436	310	148	**4 units**
CDP36PT2F	2x18 (36) DIN rail	436	418	148	**2 units**
CDP36PT3F	3x12 (36) DIN rail	586	310	148	**2 units**
CDP48PT	4x12 (48) DIN rail	874	310	148	**1 unit**
CDP54PT	3x18 (54) DIN rail	586	418	148	**1 unit**
CDP72PT	4x18 (72) DIN rail	874	418	148	**1 unit**

IP65 distribution boxes. Polycarbonate. With neutral and earth bars

Reference	No. of modules	Dimensions			MOQ
		HEIGHT	WIDTH	DEPTH	
CDP4PT/RR	1x4 DIN rail	231	166	113	**6 units**
CDP6PT/RR	1x6 DIN rail	231	202	113	**6 units**
CDP8PT/RR	1x8 DIN rail	231	238	118	**4 units**
CDP12PT/RR	1x12 DIN rail	246	310	148	**4 units**
CDP18PT/RR	1x18 DIN rail	286	418	148	**4 units**
CDP24PT/RR	2x12 (24) DIN rail	436	310	148	**4 units**
CDP36PT2F/RR	2x18 (36) DIN rail	436	418	148	**2 units**
CDP36PT3F/RR	3x12 (36) DIN rail	586	310	148	**2 units**
CDP48PT/RR	4x12 (48) DIN rail	874	310	148	**1 unit**
CDP54PT/RR	3x18 (54) DIN rail	586	418	148	**1 unit**
CDP72PT/RR	4x18 (72) DIN rail	874	418	148	**1 unit**

/RR: With neutral and earth bars.

Neutral and earth bar structure

Ref. No.	Terminal I		Terminal II		Cable section	
	N	E	N	E	NEUTRAL	EARTH
22019	6	-	-	-	1x(16-35 mm^2)+5x(10-25 mm^2)	-
22000	5	5	-	-	1x(16-35 mm^2)+2x(2.5-6 mm^2)+2(4-10 mm^2)	1x(16-35 mm^2)+2x(2.5-6 mm^2)+2(4-10 mm^2)
22001	9	9	-	-	5x(2.5-6 mm^2)+3x(4-10 mm^2)+1x(16-35 mm^2)	5x(2.5-6 mm^2)+3x(4-10 mm^2)+1x(16-35 mm^2)
22002	14	14	-	-	6x(2.5-6 mm^2)+6x(4-10 mm^2)+1x(10-25 mm^2)+1x(16-35 mm^2)	6x(2.5-6 mm^2)+6x(4-10 mm^2)+1x(10-25 mm^2)+1x(16-35 mm^2)
22003	18	18	-	-	8x(2.5-6 mm^2)+8x(4-10 mm^2)+1x(10-25 mm^2)+1x(16-35 mm^2)	8x(2.5-6 mm^2)+8x(4-10 mm^2)+1x(10-25 mm^2)+1x(16-35 mm^2)
22004	26	-	-	26	12x(2.5-6 mm^2)+12x(4-10 mm^2)+1x(10-25 mm^2)+1x(16-35 mm^2)	12x(2.5-6 mm^2)+12x(4-10 mm^2)+1x(10-25 mm^2)+1x(16-35 mm^2)
22005	36	-	-	36	16x(2.5-6 mm^2)+16x(4-10 mm^2)+2x(10-25 mm^2)+2x(16-35 mm^2)	16x(2.5-6 mm^2)+16x(4-10 mm^2)+2x(10-25 mm^2)+2x(16-35 mm^2)

ECO-STAR SYSTEM

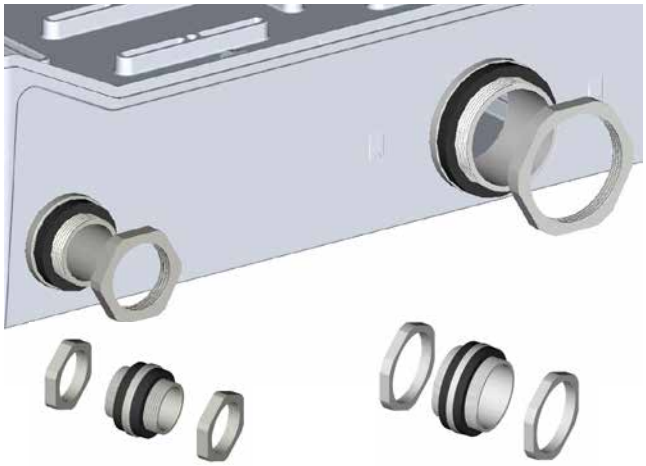
Ecology Series (Distribution boxes) + Star Series (Boxes for power sockets)

The Eco-Star system gives the possibility of joining the IP65 watertight distribution boxes (Ecology series) and IP65 boxes for power sockets (Star series), to create large-sized assemblies and modular capacity.

Combined with each other, they offer the installer the most versatile internationally-certified solution to combine distribution boxes and units for power sockets.

They have ample room for cables and extensive modular capacity. Intended for indoor and outdoor uses, wherever a high degree of protection and safety is required.





REF. 22273: M25 BUSHING

REF. 22274: M40 BUSHING

Joining system

Joining these two models makes it possible to create large-sized power supply and distribution enclosures.

The boxes have marks on the sides for the easy installation of M25 and M40 bushings with rubber gasket to guarantee IP65 protection. They can be joined both vertically and horizontally.

The use of two M25 cable glands or a combination of an M25 cable gland and an M40 cable gland is recommended when more space is needed to run the cables.

Different joining possibilities and combinations



CDN24PT+CSN12PT



CSN12PT+PCSNPLUS



PCSN12PT+PCSN6PT

IP 65 CE

STAR + Additional module



Reference	No. of modules	Weight	Components		MOQ
			References		
		kg			
CSN12PT/PLUS	1x12 DIN rail + Additional	3.0	CSN12PT	CSNPLUS	**1 unit**

HALOGEN-FREE PLASTIC MATERIALS
FINISH: Grey RAL 7035 with transparent window in tinted PC.
DIMENSIONS: 436x452x147 mm.
IP65 - Surface.



Reference	No. of modules	Weight	Components		MOQ
			References		
		kg			
CSN18PT/PLUS	1x18 DIN rail + Additional	3.6	CSN18PT	CSNPLUS	**1 unit**

HALOGEN-FREE PLASTIC MATERIALS
FINISH: Grey RAL 7035 with transparent window in tinted PC.
DIMENSIONS: 436x560x147 mm.
IP65 - Surface.



Reference	No. of modules	Weight	Components			MOQ
			References		Covers	
		kg				
PCSN12PT/PLUS	1x12 DIN rail + Additional	3.3	PCSN12PT	PCSNPLUS	15	**1 unit**

HALOGEN-FREE PLASTIC MATERIALS
FINISH: Grey RAL 7035 with transparent window in tinted PC.
DIMENSIONS: 436x452x147 mm.
IP65 - Surface.



Reference	No. of modules	Weight	Components			MOQ
			References		Covers	
		kg				
PCSN18PT/PLUS	1x18 DIN rail + Additional	4.0	PCSN18PT	PCSNPLUS	20	**1 unit**

HALOGEN-FREE PLASTIC MATERIALS
FINISH: Grey RAL 7035 with transparent window in tinted PC.
DIMENSIONS: 436x560x147 mm.
IP65 - Surface.

ECOLOGY + Additional module



Reference	No. of modules	Weight	Components			MOQ
			References		Covers	
		kg				
CDN24PT/PLUS	2x12 (24) DIN rail + Additional	3.5	CDN24PT	PCSNPLUS	5	**1 unit**

HALOGEN-FREE PLASTIC MATERIALS
FINISH: Grey RAL 7035 with transparent window in tinted PC.
DIMENSIONS: 436x452x147 mm.
IP65 - Surface.



Reference	No. of modules	Weight	Components			MOQ
			References		Covers	
		kg				
CDN36PT2F/PLUS	2x18 (36) DIN rail + Additional	4.2	CDN36PT2F	PCSNPLUS	5	**1 unit**

HALOGEN-FREE PLASTIC MATERIALS
FINISH: Grey RAL 7035 with transparent window in tinted PC.
DIMENSIONS: 436x560x147 mm.
IP65 - Surface.

The boxes are supplied disassembled. Mounting accessories are included.

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