CombiNorm-Compact

A combination of an enclosure shell and an enclosure lid of your choice, this top hat rail enclosure made of flame-resistant polyamide UL 94 V0 guarantees optimal PCB utilization because the unit PCB is inserted from the side.
The orthogonal shape of the soldering pins makes it possible to mount the terminals with the components in one soldering process!

The enclosure shells are available with/without a terminal trim or air vents, the enclosure lids with/without terminal trim. Thanks to the special snap trim, the latching of the shell and lid can take place on automated machines. The patented rail snap foot on the enclosure shells is in a "parked" position when open; it releases automatically when placed on the rail and locks the enclosure.

Enclosure material: Polyamide 6.6 – FR; front flap clear: polycarbonate. For technical data see pages 646-650.

Colour: Light grey, similar to RAL 7035. Special colours and min. order quantities on request.

Scope of delivery: Enclosure shell resp. enclosure lid; PU = 5 pcs.

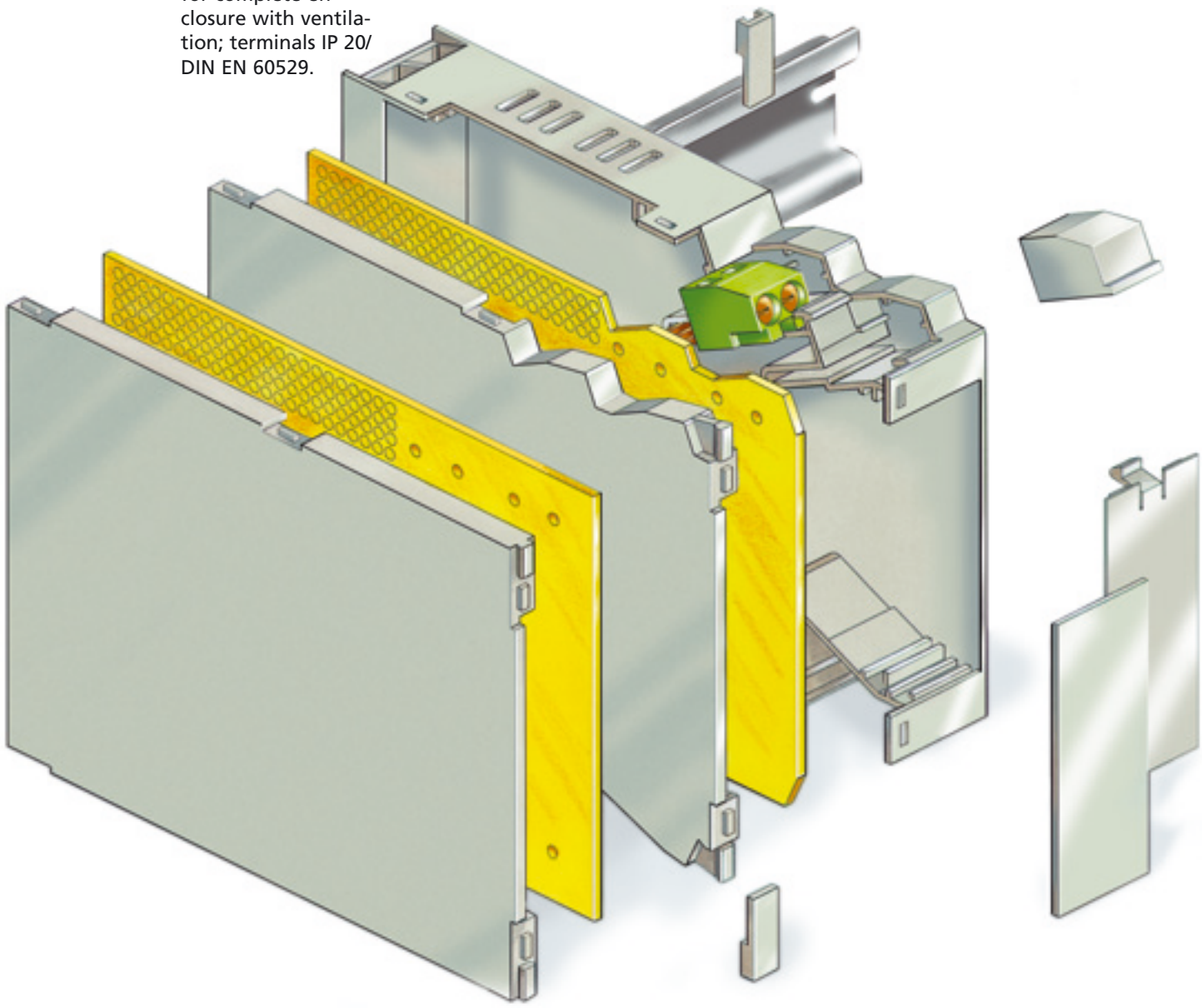
Ingress protection: IP 40/DIN EN 60529 for complete enclosure without ventilation; IP 30/DIN EN 60529 for complete enclosure with ventilation; terminals IP 20/ DIN EN 60529.

Accessories (additional charge):

CN...FP:	Front panel, plug-in	CN-BL:	Blind pieces for unused terminal locations
CN...FK:	Front flap, snap-on	CN-WA:	Wall adapter for wall mounting
CN...FKG:	Front flap, clear, snap-on	CN-BZ:	Marking plate, clip-on type, without printing
AK...:	Connection terminals		
AK-BS:	Terminal identification strip, self-adhesive		

Dimensions

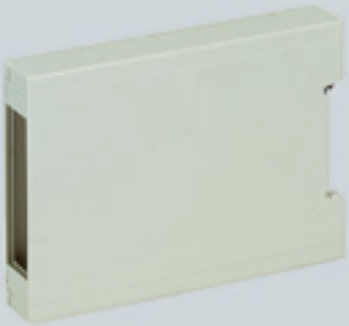
Model	W	L	H	max. terminal assignment
CN 19	19.0	100.8	75	4 x 2 pole
CN 22	22.5	100.8	75	4 x 3 pole
CN 26	26.0	100.8	75	4 x 3 pole



CombiNorm-Compact CN 19 (max. 8-pole)

CN 19 GK-L with CN-DK

CN 19 GK with CN-DU



CN 19 GU with CN-DU

The different enclosure combinations using shells and lids offer various advantages:
CN..GK with CN-DK:
This combination requires the PCB to have a stepped profile. Optimal access to the terminals of enclosures which are connected to each other.
CN..GK with CN-DU:
This combination permits the use of a rectangular (grooved) PCB which minimises the production costs.
CN..GU with CN-DU:
Universal enclosure without pre-set terminal positions, permitting the use of larger bus wire connectors parallel to the PCB (upper or lower).
The **CN..FP** front panels are coded in their direction of insertion. Customer-specific front panels, e.g. made of aluminium, are also available as alternatives.
A PCB plug-in slot for the fitting of – for example – front operating elements is provided parallel to the front panel.
Instead of a front panel, a **CN..FK (G) front flap** (RAL 7035 or clear) can be snapped in. It can be removed for operation of the rear components.

Enclosure shells

Order designation

Model	Order no.	Description	Enclosure width
CN 19 GK	**65019100**	Enclosure shell, contoured, for max. 4 x 2-pole terminals	19
CN 19 GK-L	**65019110**	Enclosure shell, contoured, with air vents for max. 4 x 2-pole terminals	19
CN 19 GU	**65019000**	Enclosure shell, universal	19
CN 19 GU-L	**65019010**	Enclosure shell, universal, with air vents **(on request)**	19

Enclosure lids

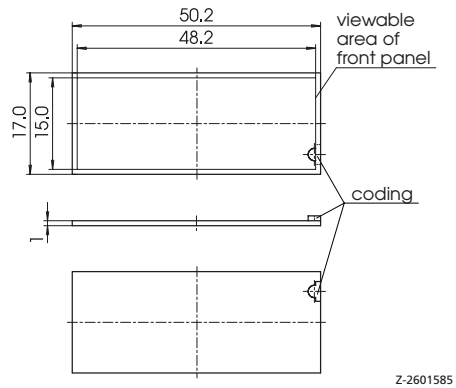
Order designation

Model	Order no.	Description	For enclosure shell
CN-DK	**65000200**	Enclosure lid, contoured	GK (L)
CN-DU	**65000100**	Enclosure lid, universal	GK (L), GU (L)

Front panel

Order designation

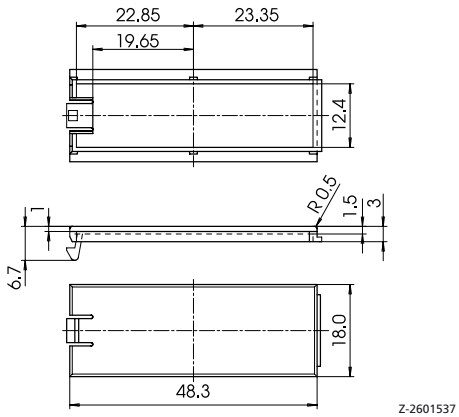
Model	Order no.	Description	For enclosure width
CN 19 FP	**65019500**	Front panel, plug-in, direction of insertion coded	19



Front flaps

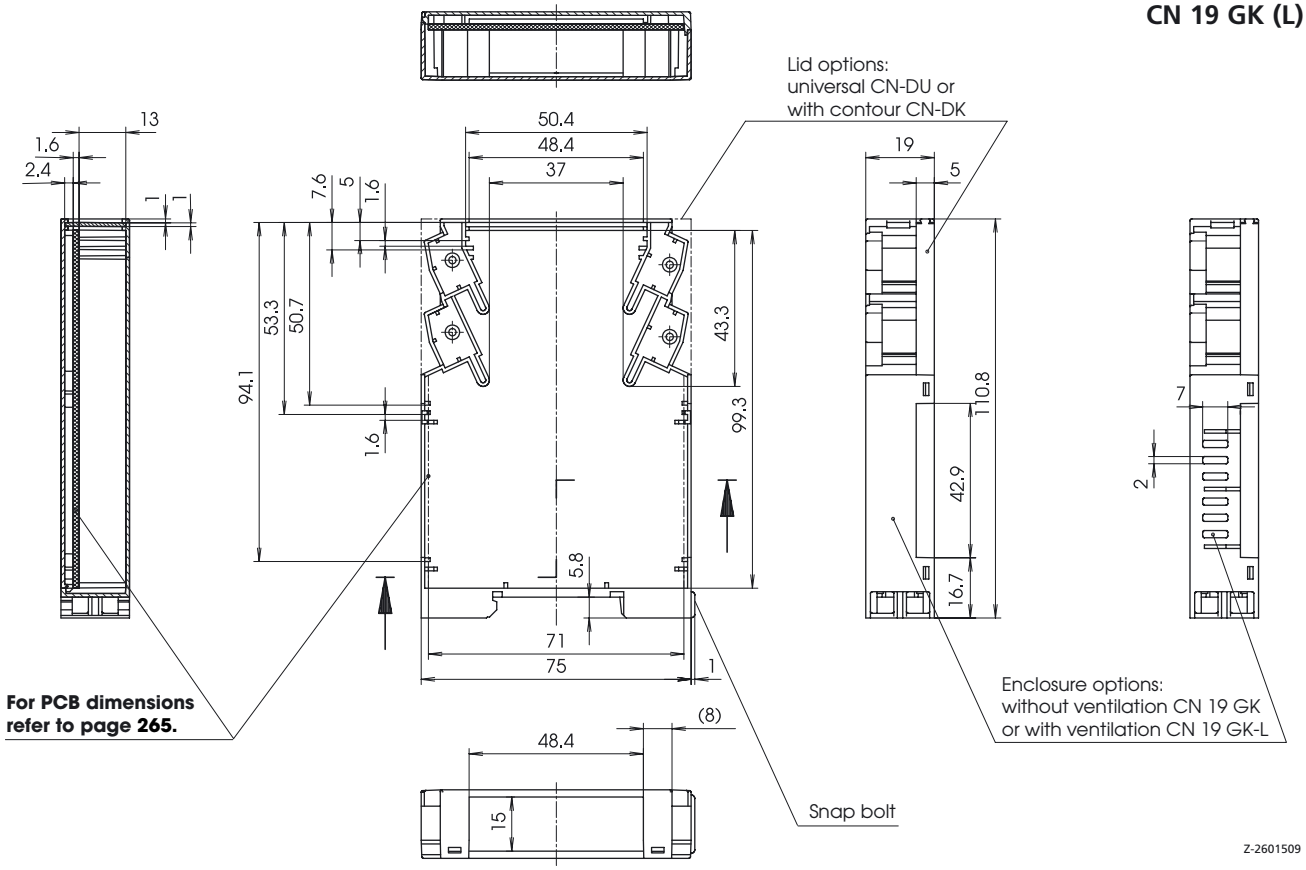
Order designation

Model	Order no.	Description	For enclosure width
CN 19 FK	**65019600**	Front flap, snap-on	19
CN 19 FKG	**65019700**	Front flap, snap-on, clear	19

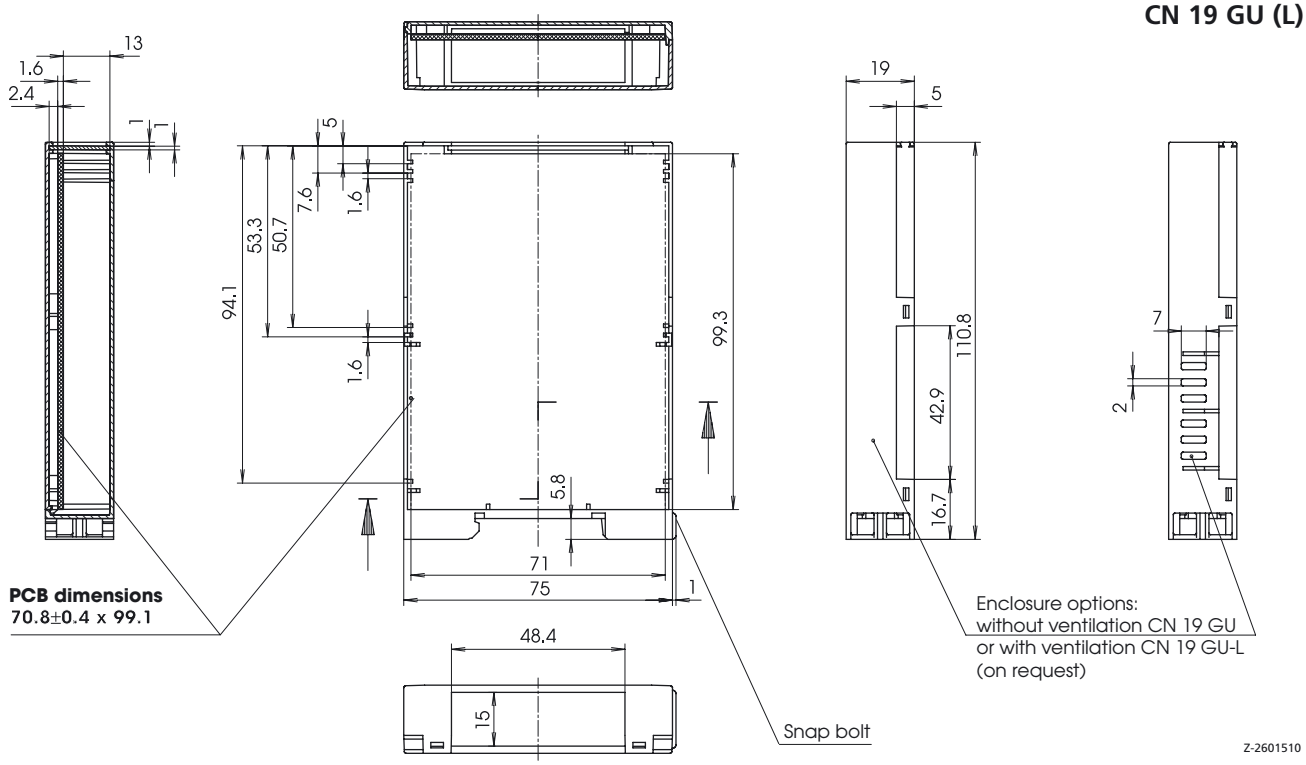


For terminals and accessories, see pages 264-265.

CN 19 GK (L)



CN 19 GU (L)



CombiNorm-Compact CN 22 (max. 12-pole)

CN 22 GK-L with CN-DK

CN 22 GK with CN-DU

CN 22 GU with CN-DU

The different enclosure combinations using shells and lids offer various advantages:
CN..GK with CN-DK:
This combination requires the PCB to have a stepped profile. Optimal access to the terminals of enclosures which are connected to each other.
CN..GK with CN-DU:
This combination permits the use of a rectangular (grooved) PCB which minimises the production costs.
CN..GU with CN-DU:
Universal enclosure without pre-set terminal positions, permitting the use of larger bus wire connectors parallel to the PCB (upper or lower).
The **CN..FP** front panels are coded in their direction of insertion. Customer-specific front panels, e.g. made of aluminium, are also available as alternatives.
A PCB plug-in slot for the fitting of – for example – front operating elements is provided parallel to the front panel.
Instead of a front panel, a **CN..FK (G) front flap** (RAL 7035 or clear) can be snapped in. It can be removed for operation of the rear components.

Enclosure shells

Order designation

Model	Order no.	Description	Enclosure width
CN 22 GK	**65022100**	Enclosure shell, contoured, for max. 4 x 3-pole terminals	22.5
CN 22 GK-L	**65022110**	Enclosure shell, contoured, with air vents for max. 4 x 3-pole terminals	22.5
CN 22 GU	**65022000**	Enclosure shell, universal	22.5
CN 22 GU-L	**65022010**	Enclosure shell, universal with air vents **(on request)**	22.5

Enclosure lids

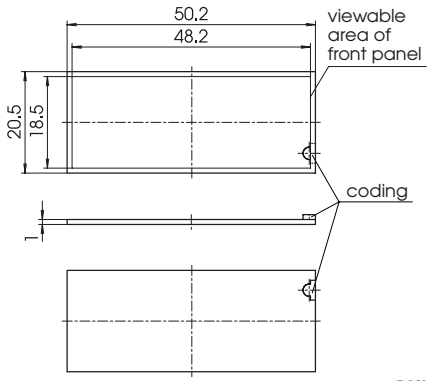
Order designation

Model	Order no.	Description	For enclosure shell
CN-DK	**65000200**	Enclosure lid, contoured	GK (L)
CN-DU	**65000100**	Enclosure lid, universal	GK (L), GU (L)

Front panel

Order designation

Model	Order no.	Description	For enclosure width
CN 22 FP	**65022500**	Front panel, plug-in, direction of insertion coded	22.5

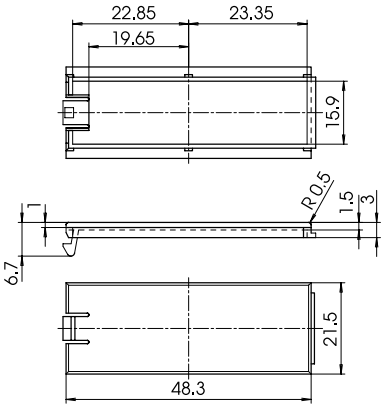


Z-2601585

Front flaps

Order designation

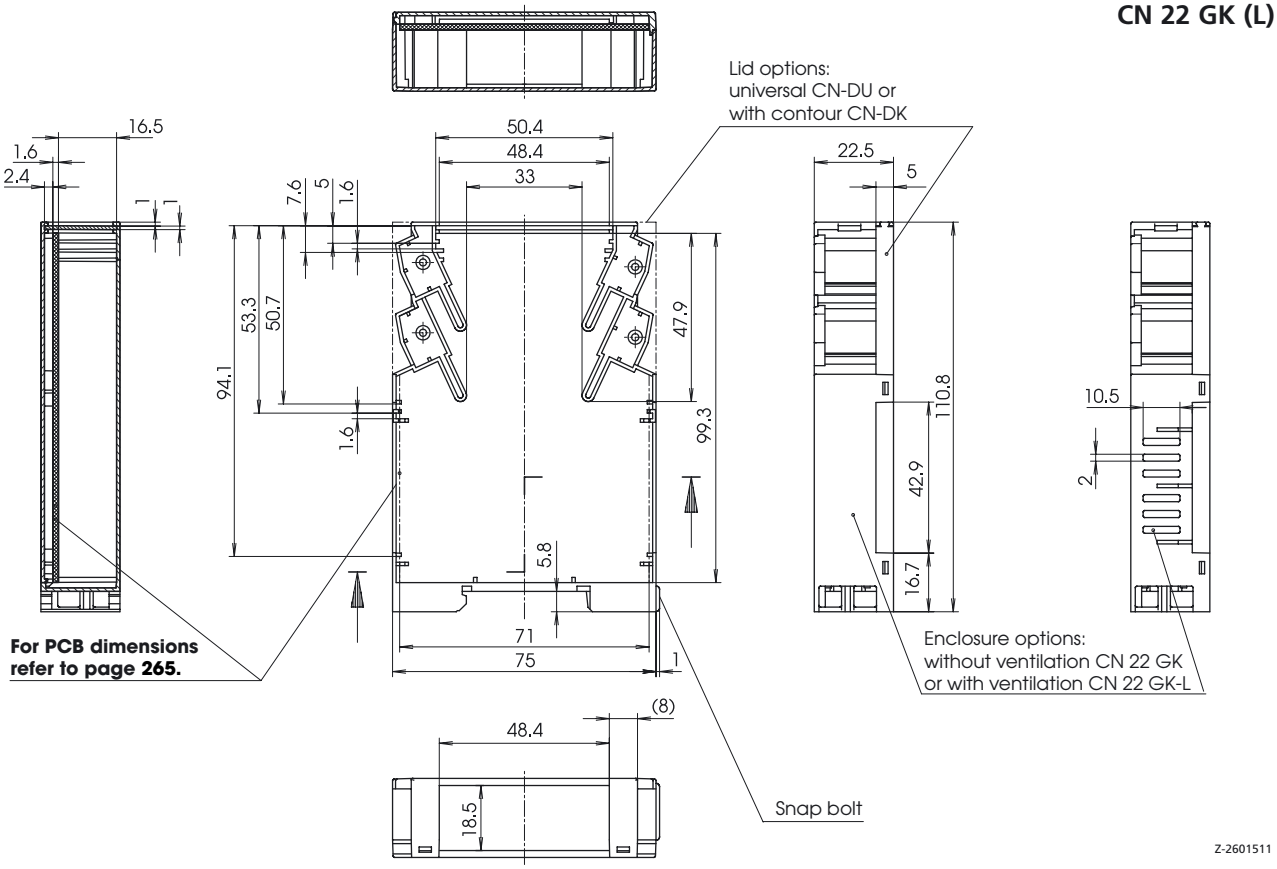
Model	Order no.	Description	For enclosure width
CN 22 FK	**65022600**	Front flap, snap-on	22.5
CN 22 FKG	**65022700**	Front flap, snap-on, clear	22.5



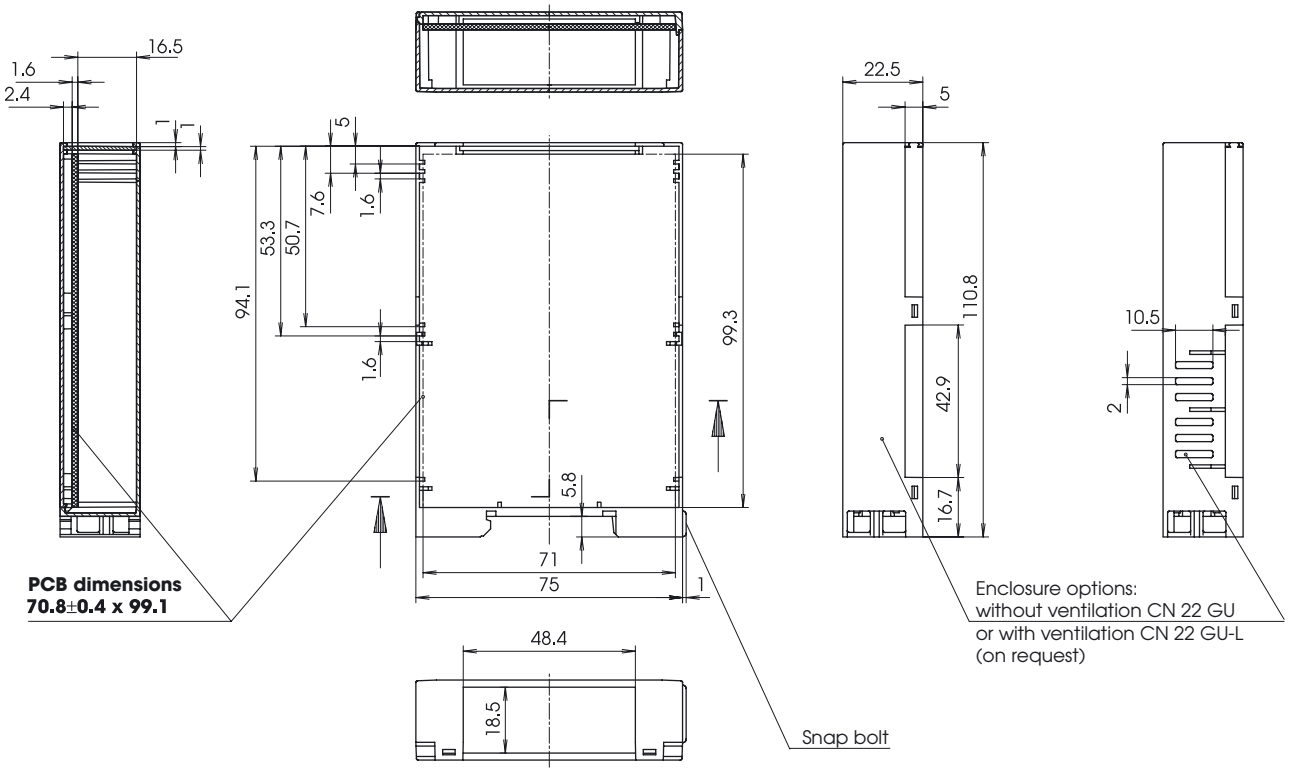
Z-2601537

For terminals and accessories, see pages 264-265.

CN 22 GK (L)



CN 22 GU (L)



CombiNorm-Compact CN 26 (max. 12-pole)

CN 26 GK-L with CN-DK

CN 26 GK with CN-DU

CN 26 GU with CN-DU

The different enclosure combinations using shells and lids offer various advantages:
CN..GK with CN-DK:
This combination requires the PCB to have a stepped profile. Optimal access to the terminals of enclosures which are connected to each other.
CN..GK with CN-DU:
This combination permits the use of a rectangular (grooved) PCB which minimises the production costs.
CN..GU with CN-DU:
Universal enclosure without pre-set terminal positions, permitting the use of larger bus wire connectors parallel to the PCB (upper or lower).
The **CN..FP** front panels are coded in their direction of insertion. Customer-specific front panels, e.g. made of aluminium, are also available as alternatives.
A PCB plug-in slot for the fitting of – for example – front operating elements is provided parallel to the front panel.
Instead of a front panel, a **CN..FK (G) front flap** (RAL 7035 or clear) can be snapped in. It can be removed for operation of the rear components.

Enclosure shells

Order designation

Model	Order no.	Description	Enclosure width
CN 26 GK	**65026100**	Enclosure shell, contoured, for max. 4 x 3-pole terminals	26
CN 26 GK-L	**65026110**	Enclosure shell, contoured, with air vents for max. 4 x 3-pole terminals	26
CN 26 GU	**65026000**	Enclosure shell, universal	26
CN 26 GU-L	**65026010**	Enclosure shell, universal with air vents **(on request)**	26

Enclosure lids

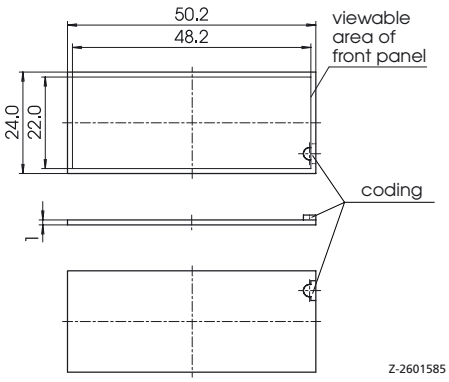
Order designation

Model	Order no.	Description	For enclosure shell
CN-DK	**65000200**	Enclosure lid, contoured	GK (L)
CN-DU	**65000100**	Enclosure lid, universal	GK (L), GU (L)

Front panel

Order designation

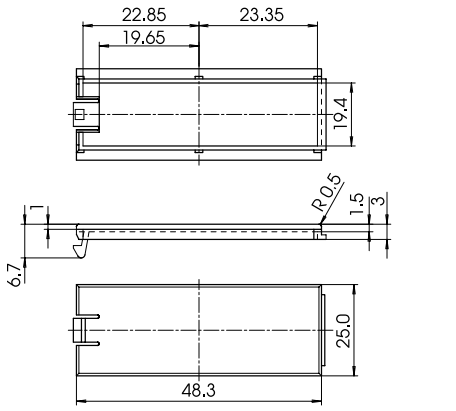
Model	Order no.	Description	For enclosure width
CN 26 FP	**65026500**	Front panel, plug-in, direction of insertion coded	26



Front flaps

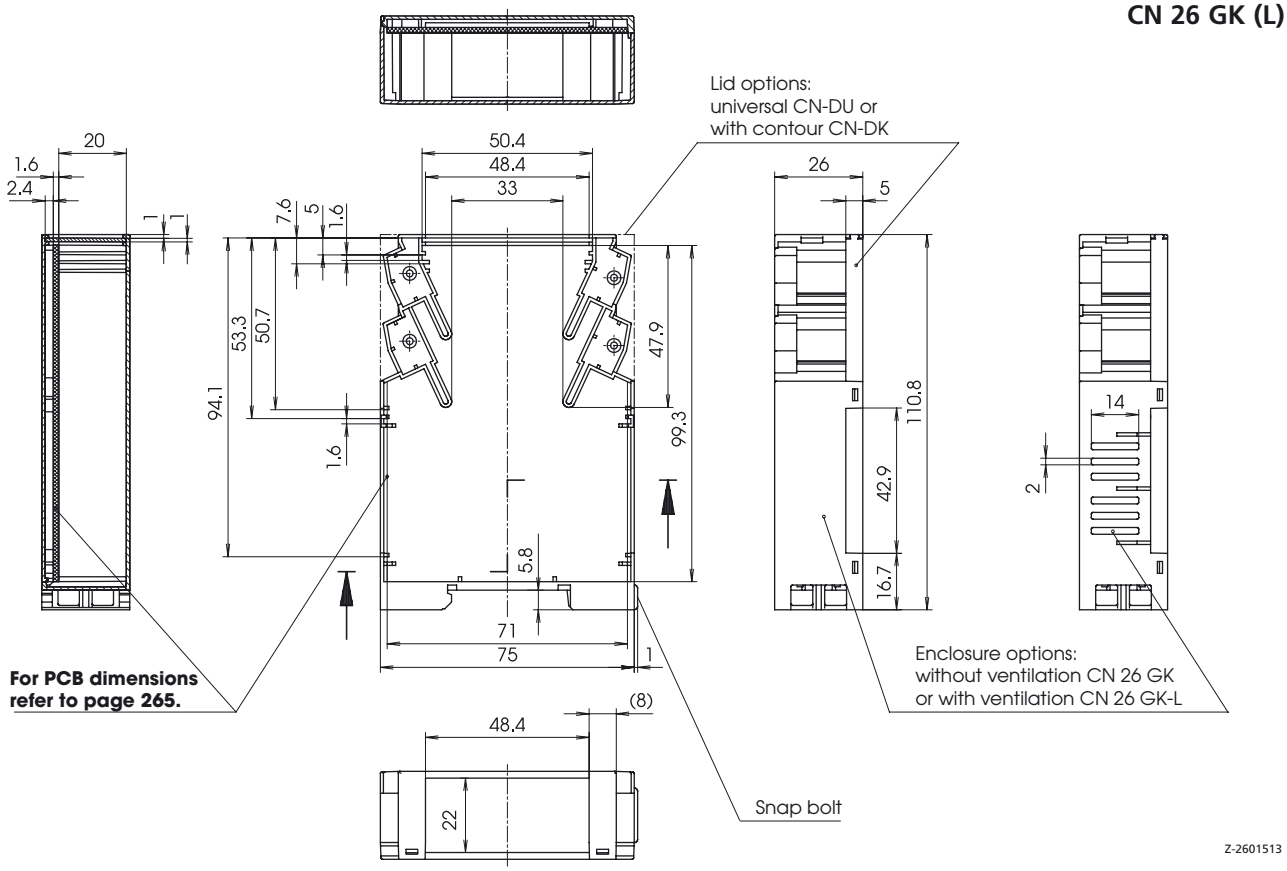
Order designation

Model	Order no.	Description	For enclosure width
CN 26 FK	**65026600**	Front flap, snap-on	26
CN 26 FKG	**65026700**	Front flap, snap-on, clear	26



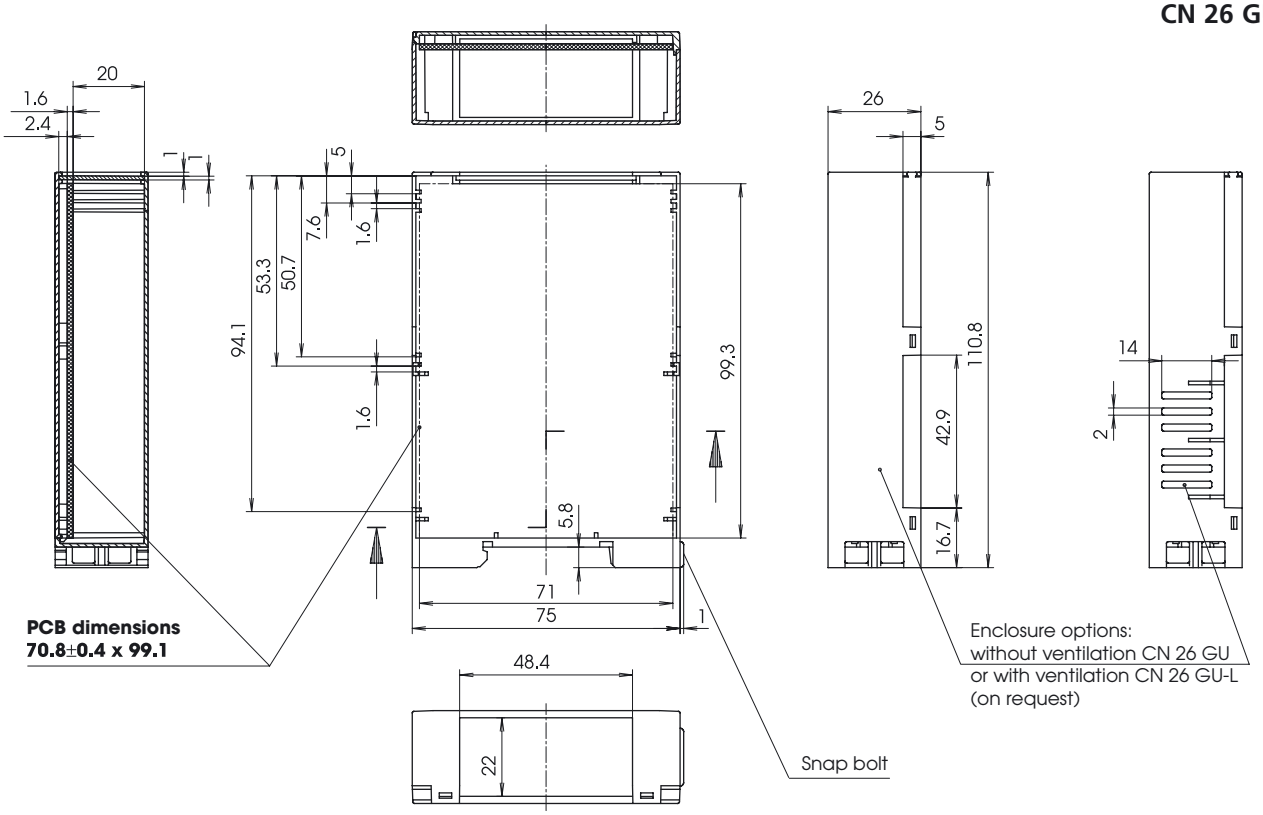
For terminals and accessories, see pages 264-265.

CN 26 GK (L)



Z-2601513

CN 26 GU (L)



Z-2601514

CombiNorm-Compact accessories

Marking plate CN-BZ

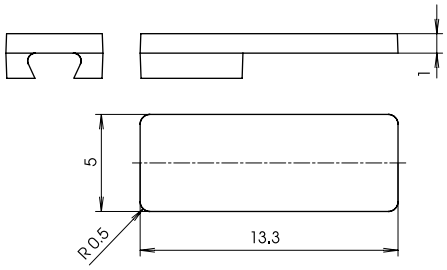
Blind piece CN-BL 1 (2)

Wall adapter CN-WA

Terminal identification strip AK-BS

Order designation

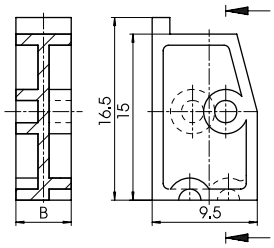
Model	Order no.	Description	For enclosure
CN-BZ	**66000022**	Marking plate for clipping onto upper and lower section of enclosure front	All designs



Z-2601515

Order designation

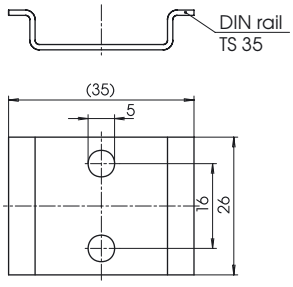
Model	Order no.	Description	B	For enclosure
CN-BL 1	**66000032**	Blind piece, 1-pole, for unused term. locations	5	CN..GK (L)
CN-BL 2	**66000042**	Blind piece, 2-pole, for unused term. locations	10	CN..GK (L)



Z-2601538

Order designation

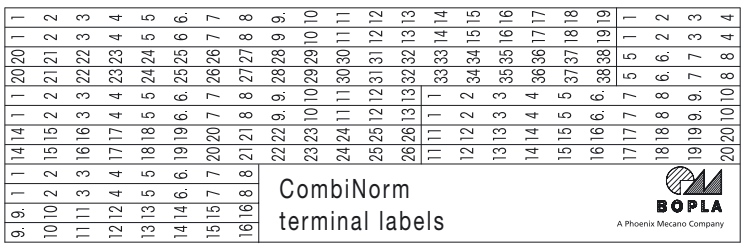
Model	Order no.	Description	For enclosure
CN-WA	**66000012**	Wall adapter for fitting single enclosures to walls	All designs



Z-1007106

Order designation

Model	Order no.	Description
AK-BS	**66000100**	Terminal identification strip, self-adhesive



Z-2601451

Connection terminals

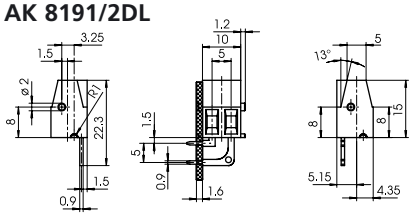
Model	Order no.	Description
AK 8191/2DL	**66000052**	2-pole, on left of component side (seen from front), PCB vertical
AK 8191/2DR	**66000062**	2-pole, on right of component side (seen from front), PCB vertical
AK 8191/3DL	**66000072**	3-pole, on left of component side (seen from front), PCB vertical
AK 8191/3DR	**66000082**	3-pole, on right of component side (seen from front), PCB vertical

Rated cross-section: 2.5 mm²
Max. connection cross-section:
Single wire (rigid) 0.14 - 4 mm²
Fine-strand (flexible) 0.14 - 2.5 mm²
Rated current: 16 A

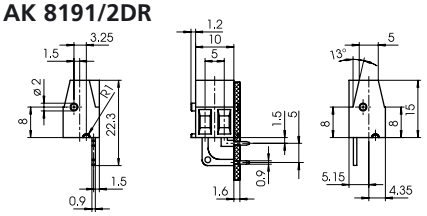
Rated voltage according to VDE 110/01.89:
250V/4KV/3 overvoltage category III
* 690V/4KV/2 overvoltage category II
1000 V/4KV/1 overvoltage category I

* max. 600 V for earthed equipment or expected overvoltage

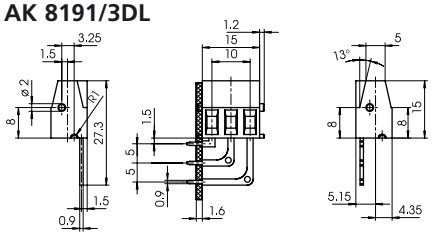
AK 8191/2DL



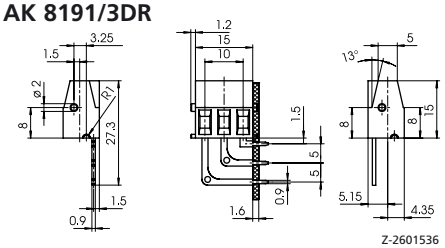
AK 8191/2DR



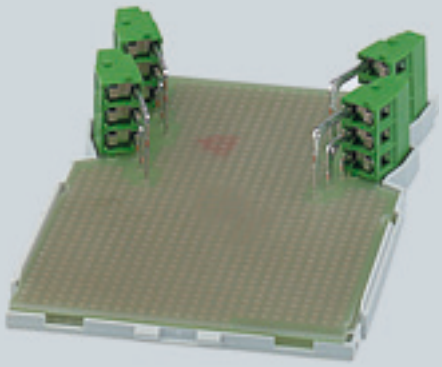
AK 8191/3DL



AK 8191/3DR



Z-2601536



Ingress protection: IP 20

Dimensions:

Pitch dimension	5.0 mm
Drill hole Ø	1.3 mm
Wire stripping l.	6.5 mm

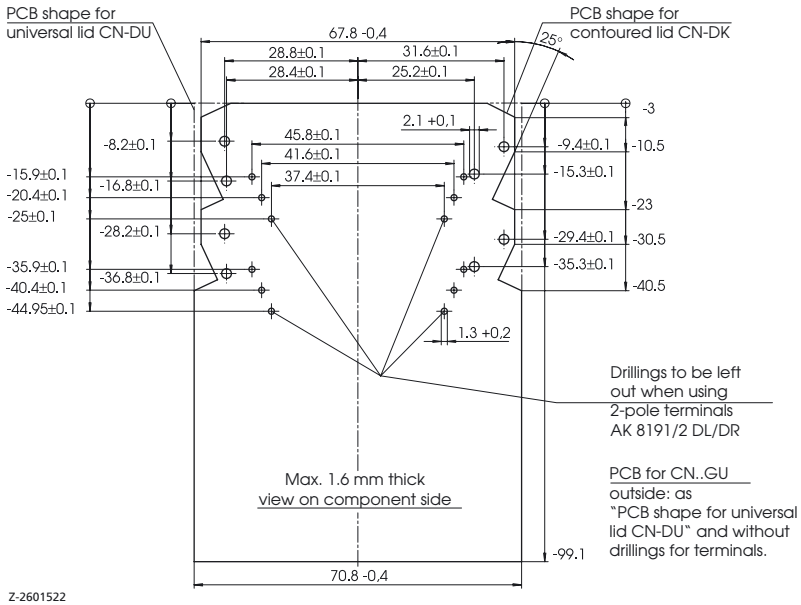
Colour: Green, similar to RAL 6017

Materials:

Insulating mat.	PA
Inflammability class	UL94 V-0
Contact bow	tinned ETP copper
Soldering pin	tinned ETP copper

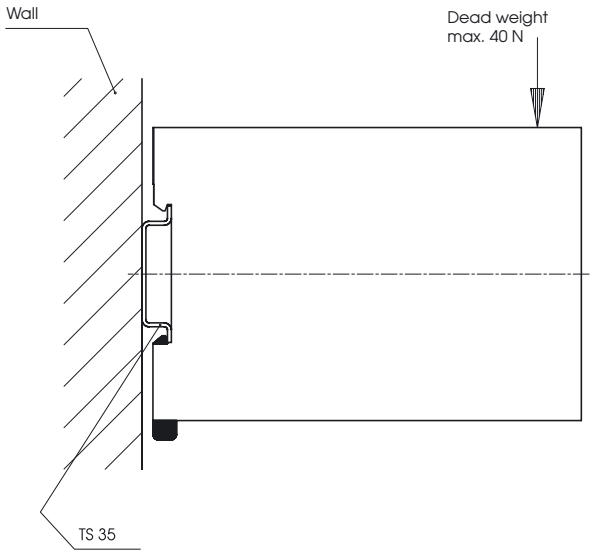
Connection terminals

PCB dimensions for CN..GK with CN..DK or CN..DU



Z-2601522

Load-bearing capacity



Z-2601450