



CGK/MGK (“21.21”) series and CG/MG (“44.27”, “57.27”, “77.27”, “104.27”) series

CGK/MGK and CG/MG series of free and fixed enclosures (hoods and housings) for heavy-duty rectangular connectors combine water tightness to **IP68** according EN IEC 60529, the “versatile” complete IP degree of protection of these enclosures being currently IP66/IP68/IP69, high mechanical sturdiness and enhanced immunity to electromagnetic disturbances and shielding of the surrounding against emission (EMC features).

The enclosures ensure the highest degree of protection from external interferences; more specifically, they protect people from accessing the hazardous components housed inside the enclosures (protection against shock by direct contact) and they protect the internal connector inserts from the ingress of foreign matters (dust tightness) and from the harmful effects of ingress of fluids (water tightness).

The water tightness between the bulkhead-mounting housings and the panel is ensured by an O-ring seal held in position in a slot within the bulkhead-mounting housing base.

A second O-ring seal fitted around the mating edges of the enclosure ensures the water tightness between the free and the fixed enclosure when the connector is mated and locked.

To ensure the water tightness when the enclosure is fitted onto a cabinet panel, the optional mounting frame with four M6 threaded blind holes may need to be installed inside the panel.

The fastening screws must be fitted inside the enclosure and, through the fastening holes to be drilled on the panel, must be tightened onto the M6 mounting frame internal thread instead of the usual fastening nuts. The bulkhead-mounting fixed enclosure fastening holes have been drilled within the perimeter of the O-ring seal, in order to avoid having to use further seals.

Although these enclosures are larger than the standard enclosures, to leave more space for the cables, and the walls are thicker to achieve more mechanical robustness, the fixing points have remained the same as those of the standard enclosures. The series is offered with two types of locking systems: **bayonet** and **screw**.

The two closing points are located in asymmetrical positions on the short side of the housing so as to ensure an optimal water tightness while keeping the lowest footprint to allow more compactness in case of multiple enclosures placed one close to the other on the short side. The locking means of both versions are made of high quality stainless steel and are firmly fastened inside the free enclosure. These locking means can be fitted and removed by using either a 1,5 mm flat blade screwdriver or a 10 mm hexagonal key. The fixed and free enclosures of series CG/MG are made of foundry grade aluminium alloy, particularly resistant to seawater corrosion.

Series CGK/MGK enclosures are made of zinc alloy. The finish of CG/MG series is made from epoxy powder, which gives the enclosures high scratch and shock resistant properties as well as good chemical resistance.

The finish of CGK/MGK series (size “21.21”) is made by black chrome plating RoHS 2 conform.

The metal covers are made with the same quality materials as the enclosures, and are fitted with a short cord to make it always retrievable.

Scope of application

External interconnections in vehicles, in harsh environments and in humid areas and with sensitive interconnections requiring shielding from electromagnetic interference.

They are particularly suitable for the applications in the railway industry and any application requiring high resistance to pressure, impact and corrosion, with IP66/IP68/IP69 protection rating.

They also ensure a good shielding for electromagnetic compatibility.

The IP68 degree of protection marked or assigned to the enclosure is ensured if the enclosures are correctly installed and the cable entry devices have equal or higher IP rating.

Degree of protection compliant with EN IEC 60529

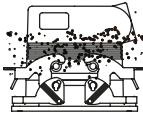
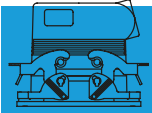
When mated and locked, the CGK/MGK (“21.21”) and the CG/MG enclosures protect the connector inserts fitted inside from outside interference, such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleaning or cooling agents, oils, etc.

The IP68 degree of protection ensured by the enclosures is fully described in the EN IEC 60529 standard, which classifies the enclosures according to their protection against the entry of foreign bodies and water.

IP68 = Total protection against dust, and against the access to hazardous parts with access probe of Ø 1,0 mm (1st characteristic numeral), and protection against the effects of continuous submersion in water (duration ≥ 30 min upon agreement and water depth ≥ 1 m upon agreement) (2nd characteristic numeral).

These enclosures have also successfully passed the tests required for the **IPX6** degree of protection (tightness to powerful water jets) and for the **IPX9** degree of protection (high pressure and temperature water jets) according to EN IEC 60529. Their full “versatile” degree of protection is therefore **IP66/IP68/IP69**.

The following table shows only the IP 68 level of protection. Please see page 46 for the complete table of the different levels of protection specified by the IP standard.

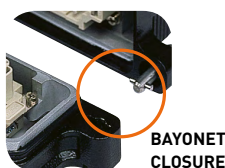
FIRST Index figure	Degree of protection SOLIDS	SECOND Index figure	Degree of protection WATER
6	 Protected against access to hazardous parts with a wire dust-tight (total protection against dust)	8	 Protected against the effects of continuous immersion in water at depth and/or duration upon agreement.

CG/MG ("44.27", "57.27", "77.27", "104.27") series

- 1 Threaded cable entry hole, available in different Pg diameters (types with prefix starting with "C") or metric thread (types with prefix starting with "M") compliant with EN 60423 standard, for cable entry devices compliant with EN IEC 62444 standard (former EN 50262), for vertical or horizontal layout.
- 2 Sturdy, corrosion proof foundry grade aluminium alloy enclosures, with RoHS 2 conform chromate treatment. The following types are available: wall mounted, flush mounted fixed and free enclosures with free protective cover.
- 3 Oven cured thermosetting paint with epoxy powder, colour black RAL 9005, which gives the enclosures a high mechanical strength and makes them resistant to external agents (only CG/MG).
- 4 The inserts are made of UL certified self-extinguishing fibreglass reinforced thermoplastics, and feature an operating temperature range between -40 °C and +125 °C.
- 5 Insert profile polarised with asymmetrical guides to avoid incorrect matings. The inserts have a mechanical life equal to or higher than 500 mating cycles.
- 6 Inserts are manufactured in compliance with European standard EN IEC 61984 (former DIN VDE 0627), certified and identified with UL and CSA marks, as well as EAC (Eurasian Customs Union) and CQC (China) marks, according to type and series.
- 7 Special NBR elastomer, anti-ageing, oil and fuel resistant seals which, together with the cable entry devices (not supplied) ensure mated connectors IP66/IP68/IP69 degree of protection. The seals are internally positioned to give a better protection from sunlight and outside elements.
- 8 Locking is available in two solutions: **screw-type** with hexagonal head stainless steel screws or **bayonet-type**. The slotted hexagonal head screws can be fitted and removed by using either a 1,5 mm thick blade screwdriver or a 10 mm hexagonal key, and can be easily accessed even when fitted on enclosures with horizontally exited cables. Tightening torque 2,5 Nm.

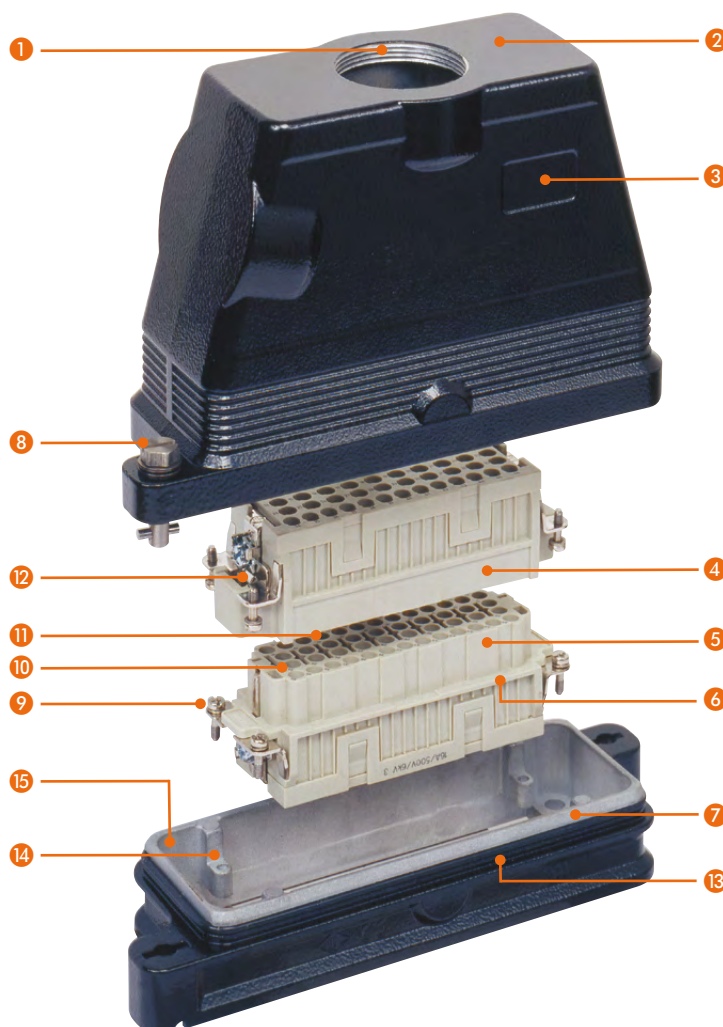


SCREW CLOSURE



BAYONET CLOSURE

- 9 Captive insert fastening screws, with anti-slackening spring washer.
- 10 Contact position identified with numbers or codes on both sides of each insert and printed with a laser system or from a die.



- 11 Silver or gold plated brass contacts connected to the wires by means of captive screws supplied already slackened, with spring terminal (SQUICH®), by means of crimping (crimp contacts available separately), or with a built-in 45° terminal block (still with screw or spring terminal).
- 12 Pre-leading (FMLB) protective earth terminal with a wide contact surface.
- 13 Fixed, bulkhead-mount enclosure with fastening screws inside the gasket.
- 14 Wider enclosures to give more space for the cabling.
- 15 They ensure a good screening for electromagnetic compatibility, resistance to vibrations in compliance with EN 61373 railway standard and to pressurised water (IPX9).

CGK and MGK high protection IP68 version

inserts		page:
CK	3 and 4 poles + ⊕	58
CKS	3 and 4 poles + ⊕	-
CKSH	3 and 4 poles + ⊕	63
CD *	8 poles	67
CQ4	2 poles + ⊕	182
CQ4 H	2 poles + ⊕	183
CQ4	3 poles + ⊕	184
CQ	5 poles + ⊕	186
CQ	7 poles + ⊕	187
CQ	12 poles + ⊕	189
CQ	21 poles + ⊕	190
CJ KF (can be used only in I enclosures)		223
CJK 8FT		226
CJK 8IFT		226, 228
CUK 2FT		236
CUK 3FT		236
CLK 04 SC		239
CX 1/2 BD		243

* To ensure IP68 degree of protection with CD 08 insert, purchase the kit CKR 65 D.

☑ In this case do not use the screw supplied with the enclosure.

bulkhead mounting housings**angled bulkhead mounting housings**

description	part No.	part No.	entry Pg	part No.	entry M
bulkhead mounting housing	CGK I	CGK IA			
without cable entry (on request)		CGK IAP13	13,5	MGK IAP20	20
with cable entry, bottom closed					

ANGLED BULKHEAD MOUNTING HOUSINGS

- Eliminate the gasket and the fixing screw; provided with the insert.
- To fix the insert, use the screw with gasket provided with the enclosure (except CD 08 see note above).



CGKCP FX
dust protection cover
(page 697)

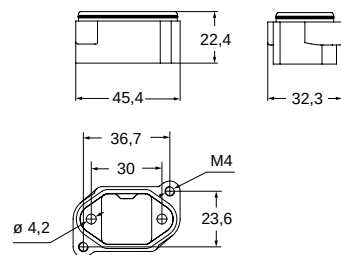


CAUS

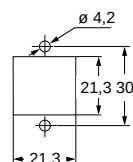
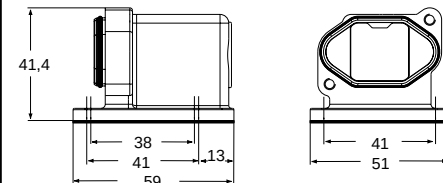
Type
4/4X/12



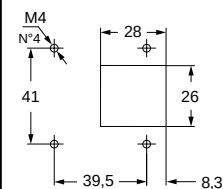
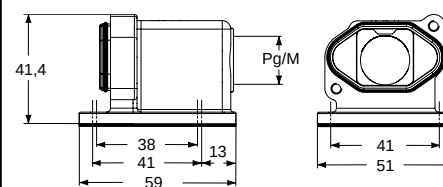
according to IEC/EN 60529

CGK I

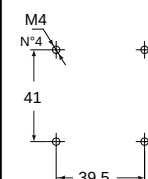
panel cut-out for CGK I enclosures

**CGK IA**

panel cut-out for CGK IA enclosures

**CGK IAP and MGK IAP**

panel cut-out for CGK/MGK IAP enclosures





CGK and MGK high protection IP68 version (screw locking)

inserts	page:
CK 3 and 4 poles + ⊕	58
CKS 3 and 4 poles + ⊕	-
CKSH 3 and 4 poles + ⊕	63
CD * 8 poles	67
CQ4 2 poles + ⊕	182
CQ4 H 2 poles + ⊕	183
CQ4 3 poles + ⊕	184
CQ 5 poles + ⊕	186
CQ 7 poles + ⊕	187
CQ 12 poles + ⊕	189
CQ 21 poles + ⊕	190
CJ KM (can be used only in hoods)	223
CJK 8MT	226
CJK 8IMT	226, 228
CUK 2FT	236
CUK 3FT	236
CLK 04 SC	239
CX 1/2 BD	243

* To ensure IP68 degree of protection with CD 08 insert, purchase the kit CKR 65 D.

☑ In this case do not use the screw supplied with the enclosure.

hoods

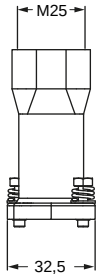
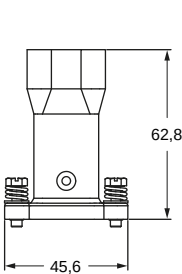
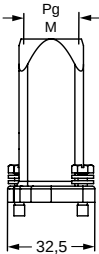
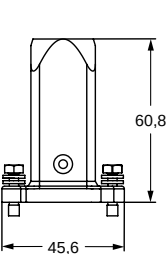


hoods



description	part No.	entry Pg	part No	entry M	part No.	entry M
top entry	CGK V13	13,5	MGK V20	20		
top entry					MGK V25	25

- Eliminate the gasket and the fixing screw; provided with the insert
- To fix the insert, use the screw with gasket provided with the enclosure (except CD 08 see note above).



CGKCP MB
dust protection cover
(page 697)



CAIUS Type 4/4X/12



according to IEC/EN 60529

CAIUS Type 12
Type 4/4X only
with CKR 65 (D)
pending



according to IEC/EN 60529

CGK high protection IP68 version (bayonet locking)

inserts	page:
CK 3 and 4 poles + ⊕	58
CKS 3 and 4 poles + ⊕	-
CKSH 3 and 4 poles + ⊕	63
CD * 8 poles	67
CQ4 2 poles + ⊕	182
CQ4 H 2 poles + ⊕	183
CQ4 3 poles + ⊕	184
CQ 5 poles + ⊕	186
CQ 7 poles + ⊕	187
CQ 12 poles + ⊕	189
CQ 21 poles + ⊕	190
CJ KF (can be used only in I enclosures)	223
CJK 8FT	226
CJK 8IFT	226, 228
CUK 2FT	236
CUK 3FT	236
CLK 04 SC	239
CX 1/2 BD	243

* To ensure IP68 degree of protection with CD 08 insert, purchase the kit CKR 65 D.

☒ In this case do not use the screw supplied with the enclosure.

bulkhead mounting housings



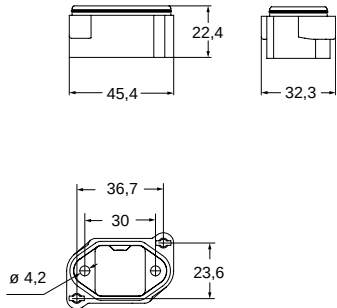
description

part No.

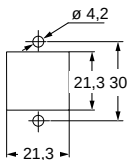
bulkhead mounting housing

CGK I B

- Eliminate the gasket and the fixing screw; provided with the insert
- To fix the insert, use the screw with gasket provided with the enclosure (except CD 08 see note above).



panel cut-out for CGK I B enclosures



CGKCP FX
dust protection cover
(page 697)



CAUS® Type
4/4X/12



according to IEC/EN 60529



CGK and MGK high protection IP68 version (bayonet locking)

inserts	page:
CK 3 and 4 poles + ⊕	58
CKS 3 and 4 poles + ⊕	-
CKSH 3 and 4 poles + ⊕	63
CD * 8 poles	67
CQ4 2 poles + ⊕	182
CQ4 H 2 poles + ⊕	183
CQ4 3 poles + ⊕	184
CQ 5 poles + ⊕	186
CQ 7 poles + ⊕	187
CQ 12 poles + ⊕	189
CQ 21 poles + ⊕	190
CJ KM (can be used only in hoods)	223
CJK 8MT	226
CJK 8IMT	226, 228
CUK 2FT	236
CUK 3FT	236
CLK 04 SC	239
CX 1/2 BD	243

* To ensure IP68 degree of protection with CD 08 insert, purchase the kit CKR 65 D.

☑ In this case do not use the screw supplied with the enclosure.

hoods

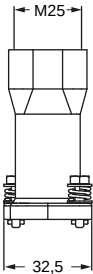
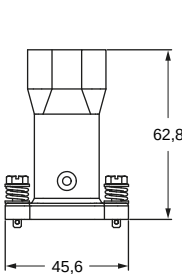
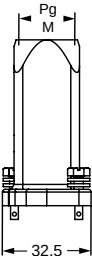
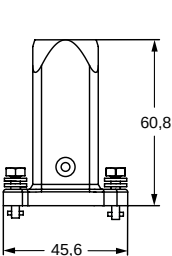


hoods



description	part No.	entry Pg	part No	entry M	part No.	entry M
top entry	CGK V13 B	13,5	MGK V20 B	20		
top entry					MGK V25 B	25

- Eliminate the gasket and the fixing screw; provided with the insert
- To fix the insert, use the screw with gasket provided with the enclosure (except CD 08 see note above).



CGKCP MB
dust protection cover
(page 697)



CAI[®] US Type 4/4X/12



according to IEC/EN 60529

CAI[®] US Type 12 Type 4/4X only with CKR 65 (D) pending



according to IEC/EN 60529

CG and MG high protection IP68 version (screw locking)

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

bulkhead mounting housings

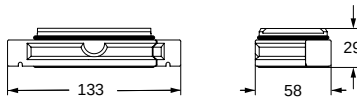


surface mounting housings

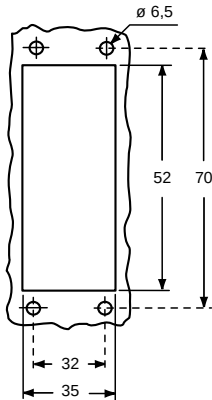


description	part No.	part No.	entry Pg	part No.	entry M
with gasket, size “44.27”	CGI 06	CGP 06.29	29	MGP 06.32	32
size “44.27”					

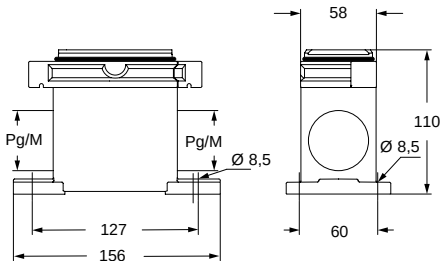
CGI



panel cut-out for bulkhead mounting housings



CGP and MGP



CGCP FX
Dust protection
cover
(from page 697)



Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (screw locking)

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

hoods

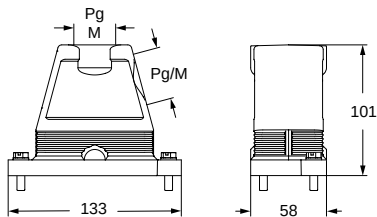


covers

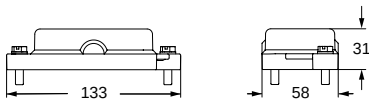


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "44.27"	CGO 06.16	16	MGO 06.25	25	
size "44.27"	CGO 06.21	21	MGO 06.32	32	
size "44.27"	CGO 06.29	29			
with top entry					
size "44.27"	CGV 06.16	16	MGV 06.25	25	
size "44.27"	CGV 06.21	21	MGV 06.32	32	
size "44.27"	CGV 06.29	29	MGV 06.40	40	
size "44.27"	CGC 06				

CGO/MGO and CGV/MGV



CGC



CGCP MB
Dust protection
cover
(from page 697)



CALUS® Type
4/4X/12



according to IEC/EN 60529

CG high protection IP68 version (bayonet locking)

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

bulkhead mounting housings



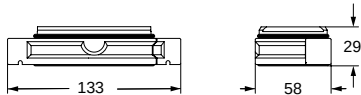
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part No.

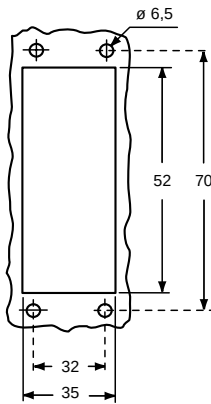
with gasket, size “44.27”

CGI 06 B

CGI B



panel cut-out for bulkhead mounting housings



CGCP FX
Dust protection
cover
(from page 697)



CAUS

Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (bayonet locking)

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

hoods

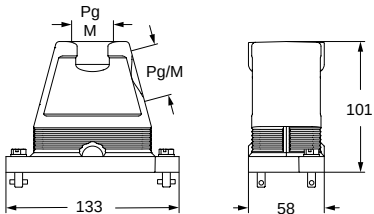


covers

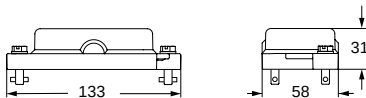


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "44.27"	CGO 06.16 B	16	MGO 06.25 B	25	
size "44.27"	CGO 06.21 B	21	MGO 06.32 B	32	
size "44.27"	CGO 06.29 B	29			
with top entry					
size "44.27"	CGV 06.16 B	16	MGV 06.25 B	25	
size "44.27"	CGV 06.21 B	21	MGV 06.32 B	32	
size "44.27"	CGV 06.29 B	29	MGV 06.40 B	40	
size "44.27"	CGC 06 B				

CGO/MGO B and CGV/MGV B



CGC B



CGCP MB
Dust protection
cover
(from page 697)



CALUS® Type
4/4X/12



according to IEC/EN 60529

CG and MG high protection IP68 version (screw locking)

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

bulkhead mounting housings

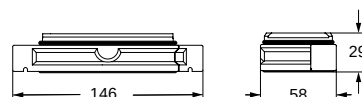


surface mounting housings

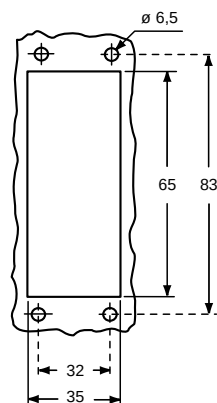


description	part No.	part No.	entry Pg	part No.	entry M
with gasket, size "57.27"	CGI 10				
size "57.27"		CGP 10.29	29	MGP 10.32	32

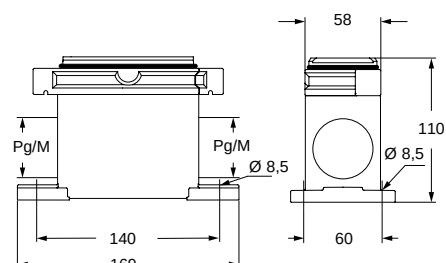
CGI



panel cut-out for bulkhead mounting housings



CGP and MGP



CGCP FX
Dust protection
cover
(from page 697)



CALUS® Type 4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (screw locking)

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

hoods

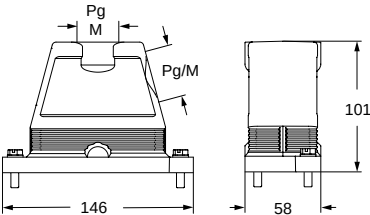


covers

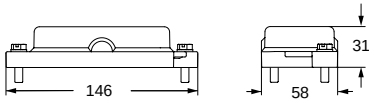


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "57.27"	CGO 10.16	16	MGO 10.25	25	
size "57.27"	CGO 10.21	21	MGO 10.32	32	
size "57.27"	CGO 10.29	29			
with top entry					
size "57.27"	CGV 10.16	16	MGV 10.25	25	
size "57.27"	CGV 10.21	21	MGV 10.32	32	
size "57.27"	CGV 10.29	29	MGV 10.40	40	
size "57.27"					CGC 10

CGO/MGO and CGV/MGV



CGC



CGCP MB
Dust protection
cover
(from page 697)



CALUS Type
4/4X/12



according to IEC/EN 60529

CG high protection IP68 version (bayonet locking)

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

bulkhead mounting housings



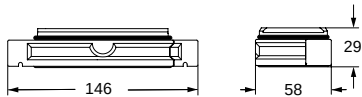
description

part No.

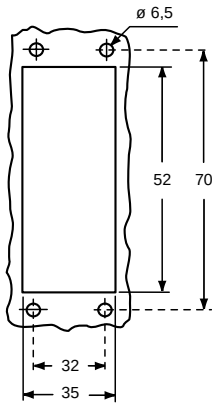
with gasket, size “57.27”

CGI 10 B

CGI B



panel cut-out for bulkhead mounting housings



CGCP FX
Dust protection
cover
(from page 697)



CAUS

Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (bayonet locking)

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

hoods

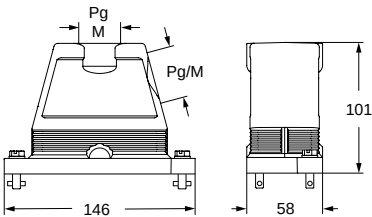


covers

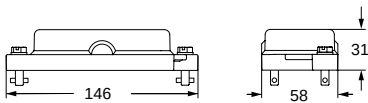


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "57.27"	CGO 10.16 B	16	MGO 10.25 B	25	
size "57.27"	CGO 10.21 B	21	MGO 10.32 B	32	
size "57.27"	CGO 10.29 B	29			
with top entry					
size "57.27"	CGV 10.16 B	16	MGV 10.25 B	25	
size "57.27"	CGV 10.21 B	21	MGV 10.32 B	32	
size "57.27"	CGV 10.29 B	29	MGV 10.40 B	40	
size "57.27"	CGC 10 B				

CGO/MGO B and CGV/MGV B



CGC B



CGCP MB
Dust protection
cover
(from page 697)



CALUS Type
4/4X/12



according to IEC/EN 60529

CG and MG high protection IP68 version (screw locking)

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

bulkhead mounting housings

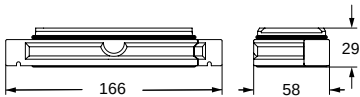


surface mounting housings

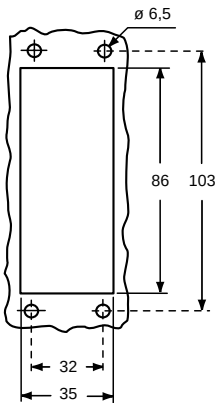


description	part No.	part No.	entry Pg	part No.	entry M
with gasket, size "77.27"	CGI 16				
size "77.27"		CGP 16.36	36	MGP 16.40	40

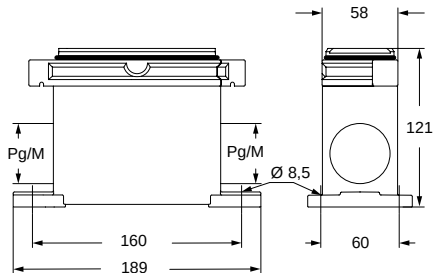
CGI



panel cut-out for bulkhead mounting housings



CGP and MGP



CGCP FX
Dust protection
cover
(from page 697)



CAUS Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (screw locking)

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

hoods

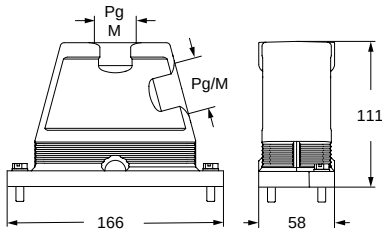


covers

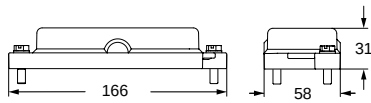


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "77.27"	CGO 16.21	21	MGO 16.32	32	
size "77.27"	CGO 16.29	29	MGO 16.40	40	
size "77.27"	CGO 16.36	36	MGO 16.50	50	
with top entry					
size "77.27"			MGV 16.25	25	
size "77.27"			MGV 16.225	25 x 2	
size "77.27"	CGV 16.21	21	MGV 16.32	32	
size "77.27"	CGV 16.221	21 x 2			
size "77.27"	CGV 16.29	29	MGV 16.40	40	
size "77.27"	CGV 16.36	36	MGV 16.50	50	
size "77.27"	CGC 16				

CGO/MGO and CGV/MGV



CGC



CGCP MB
Dust protection
cover
(from page 697)



CALUS® Type
4/4X/12



according to IEC/EN 60529

CG high protection IP68 version (bayonet locking)

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

bulkhead mounting housings



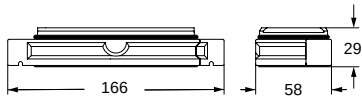
description

part No.

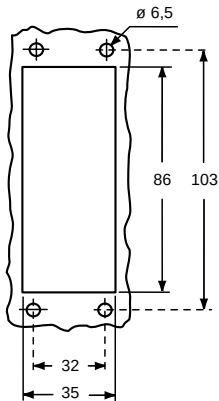
with gasket, size “77.27”

CGI 16 B

CGI B



panel cut-out for bulkhead mounting housings



CGCP FX
Dust protection
cover
(from page 697)



Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (bayonet locking)

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

hoods

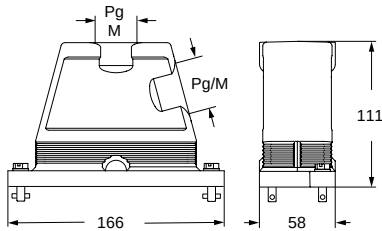


covers

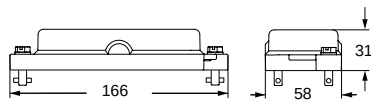


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "77.27"	CGO 16.21 B	21	MGO 16.32 B	32	
size "77.27"	CGO 16.29 B	29	MGO 16.40 B	40	
size "77.27"	CGO 16.36 B	36	MGO 16.50 B	50	
with top entry					
size "77.27"			MGV 16.25 B	25	
size "77.27"			MGV 16.225 B	25 x 2	
size "77.27"	CGV 16.21 B	21	MGV 16.32 B	32	
size "77.27"	CGV 16.221 B	21 x 2			
size "77.27"	CGV 16.29 B	29	MGV 16.40 B	40	
size "77.27"	CGV 16.36 B	36	MGV 16.50 B	50	
size "77.27"	CGC 16 B				

CGO/MGO B and CGV/MGV B



CGC B



CGCP MB
Dust protection
cover
(from page 697)



CALUS Type
4/4X/12



according to IEC/EN 60529

CG and MG high protection IP68 version (screw locking)

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

bulkhead mounting housings

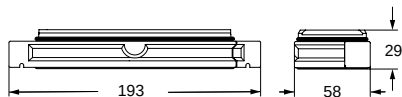


surface mounting housings

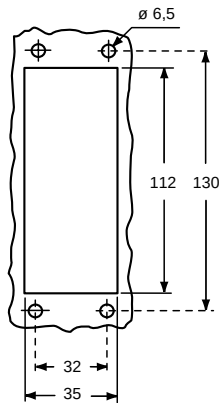


description	part No.	part No.	entry Pg	part No.	entry M
with gasket, size “104.27”	CGI 24				
size “104.27”		CGP 24.36	36	MGP 24.40	40
size “104.27”		CGP 24.236	36 x 2	MGP 24.240	40 x 2

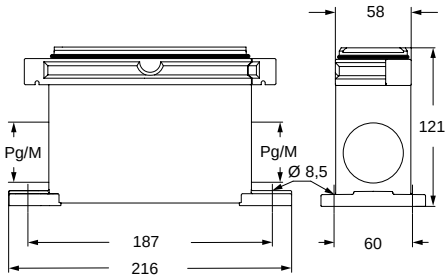
CGI



panel cut-out for bulkhead mounting housings



CGP and MGP



CGCP FX
Dust protection
cover
(from page 697)



Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (screw locking)

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

hoods

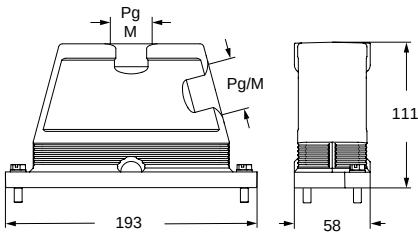


covers

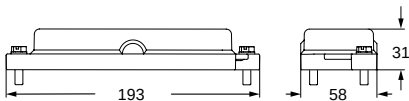


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "104.27"	CGO 24.21	21	MGO 24.32	32	
size "104.27"	CGO 24.29	29	MGO 24.40	40	
size "104.27"	CGO 24.36	36	MGO 24.50	50	
with top entry					
size "104.27"			MGV 24.325	25 x 3	
size "104.27"	CGV 24.21	21	MGV 24.32	32	
size "104.27"			MGV 24.232	32 x 2	
size "104.27"	CGV 24.29	29	MGV 24.40	40	
size "104.27"	CGV 24.229	29 x 2	MGV 24.240	40 x 2	
size "104.27"	CGV 24.36	36	MGV 24.50	50	
size "104.27"	CGC 24				

CGO/MGO and CGV/MGV



CGC



CGCP MB
Dust protection
cover
(from page 697)



CALUS Type 4/4X/12



according to IEC/EN 60529

CG high protection IP68 version (bayonet locking)

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

bulkhead mounting housings



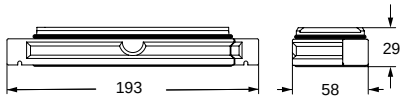
description

part No.

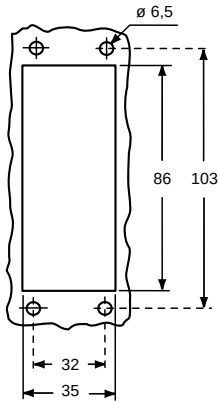
with gasket, size “77.27”

CGI 24 B

CGI B



panel cut-out for bulkhead mounting housings



CGCP FX
Dust protection
cover
(from page 697)



CAUS® Type
4/4X/12



according to IEC/EN 60529



CG and MG high protection IP68 version (bayonet locking)

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

hoods

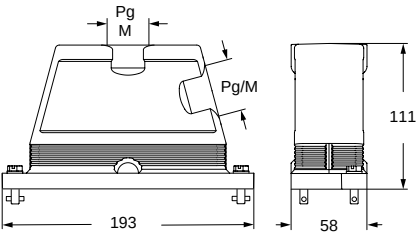


covers

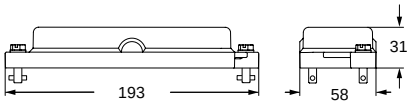


description	part No.	entry Pg	part No	entry M	part No.
with side entry					
size "104.27"	CGO 24.21 B	21	MGO 24.32 B	32	
size "104.27"	CGO 24.29 B	29	MGO 24.40 B	40	
size "104.27"	CGO 24.36 B	36	MGO 24.50 B	50	
with top entry					
size "104.27"			MGV 24.325 B	25 x 3	
size "104.27"	CGV 24.21 B	21	MGV 24.32 B	32	
size "104.27"			MGV 24.232 B	32 x 2	
size "104.27"	CGV 24.29 B	29	MGV 24.40 B	40	
size "104.27"	CGV 24.229 B	29 x 2	MGV 24.240 B	40 x 2	
size "104.27"	CGV 24.36 B	36	MGV 24.50 B	50	
size "104.27"					CGC 24 B

CGO/MGO B and CGV/MGV B



CGC B



CGCP MB
Dust protection
cover
(from page 697)



CU[®] US Type
4/4X/12



according to IEC/EN 60529

CG..FL counterflanges high protection IP68 version

bulkhead mounting housings:	page:
size "44.27"	632 - 635
size "57.27"	636 - 639
size "77.27"	640 - 643
size "104.27"	644 - 647

counterflanges
for bulkhead mounting housings

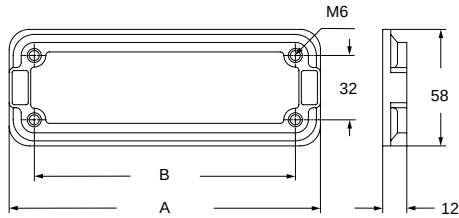


description

part No.

size "44.27"
size "57.27"
size "77.27"
size "104.27"

CG 06 FL
CG 10 FL
CG 16 FL
CG 24 FL



part No.	A	B
CG 06 FL	96	70
CG 10 FL	109	83
CG 16 FL	129	103
CG 24 FL	156	130

IP68

CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

bulkhead mounting housings
screw locking

 **3.000 HOURS**

surface mounting housings
screw locking

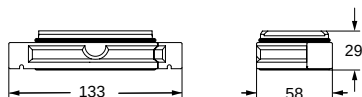
 **3.000 HOURS**

description	part No.	part No.	entry M
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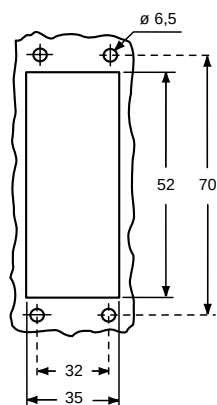
with gasket, size "44.27"	CGIE 06		
size "44.27"		MGPE 06.32	32

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +180 °C
on request -60 °C ... +180 °C with silicone gasket
(>125 °C up to 180 °C with RY inserts)

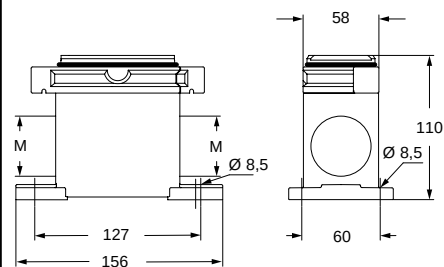
CGIE



panel cut-out for bulkhead mounting housings



MGPE



CGCP FX
Dust protection
cover
(from page 697)



according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CDD	24 poles + ⊕	76
CDS	9 poles + ⊕	-
CDSH	9 poles + ⊕	86
CDSH NC	6 poles + ⊕	95
CNE	6 poles + ⊕	110
CSE	6 poles + ⊕	-
CSH	6 poles + ⊕	110
CSH S	6 poles + ⊕	122
CCE	6 poles + ⊕	130
CSS	6 poles + ⊕	148
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

hoods,
screw locking



3.000 HOURS

covers,
screw locking

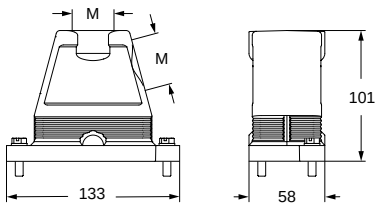


3.000 HOURS

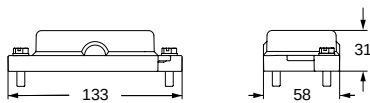
description	part No.	entry M	part No.
with side entry size "44.27"	MGOE 06.25	25	
size "44.27"	MGOE 06.32	32	
with top entry size "44.27"	MGVE 06.25	25	
size "44.27"	MGVE 06.32	32	
size "44.27"	MGVE 06.40	40	
size "44.27"			CGCE 06

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +180 °C
on request -60 °C ... +180 °C with silicone gasket
(>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB
Dust protection
cover
(from page 697)



according to IEC/EN 60529

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

**bulkhead mounting housings
screw locking**
3.000 HOURS
**surface mounting housings
screw locking**
3.000 HOURS

description

part No.

part No.

entry
M

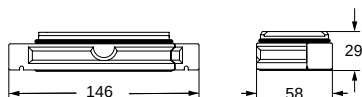
with gasket, size "57.27"

CGIE 10

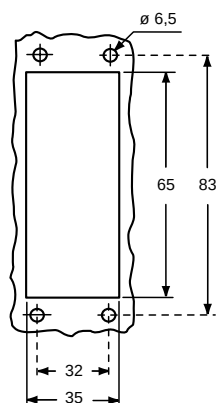
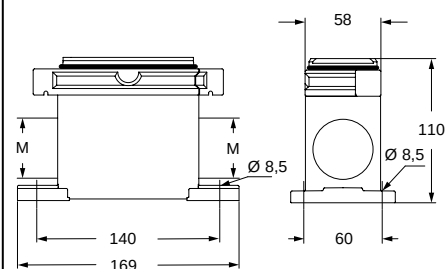
size "57.27"

MGPE 10.32**32**

- 3.000 hours in salt spray tests (EN ISO 9227)
 - temperature limits: -40 °C ... +180 °C
 on request -60 °C ... +180 °C with silicone gasket
 (>125 °C up to 180 °C with RY inserts)

CGIE

panel cut-out for bulkhead mounting housings

**MGPE**

CGCP FX
Dust protection
cover
 (from page 697)



according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CDD	42 poles + ⊕	78
CDS	18 poles + ⊕	-
CDSH	18 poles + ⊕	87
CNE	10 poles + ⊕	111
CSE	10 poles + ⊕	-
CSH	10 poles + ⊕	111
CSH S	10 poles + ⊕	123
CCE	10 poles + ⊕	131
CMSH	3+2 (aux) poles + ⊕	136
CMCE	3+2 (aux) poles + ⊕	137
CSS	10 poles + ⊕	149
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

hoods,
screw locking



3.000 HOURS

covers,
screw locking

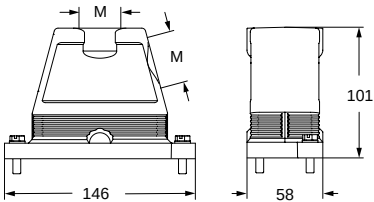


3.000 HOURS

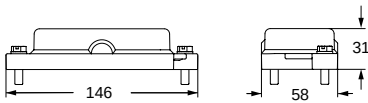
description	part No.	entry M	part No.
with side entry size "57.27"	MGOE 10.25	25	
size "57.27"	MGOE 10.32	32	
with top entry size "57.27"	MGVE 10.25	25	
size "57.27"	MGVE 10.32	32	
size "57.27"	MGVE 10.40	40	
size "57.27"			CGCE 10

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +180 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB
Dust protection
cover
(from page 697)



according to IEC/EN 60529

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

**bulkhead mounting housings
screw locking**
3.000 HOURS
**surface mounting housings
screw locking**
3.000 HOURS

description

part No.

part No.

entry
M

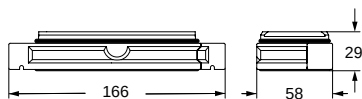
with gasket, size "77.27"

CGIE 16

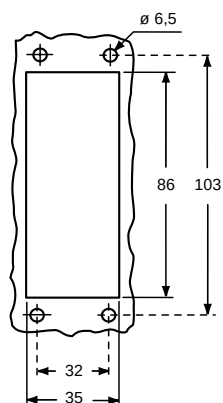
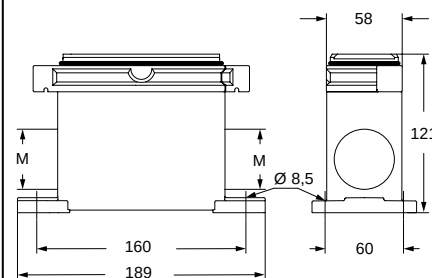
size "77.27"

MGPE 16.40 40

- 3.000 hours in salt spray tests (EN ISO 9227)
 - temperature limits: -40 °C ... +180 °C
 on request -60 °C ... +180 °C with silicone gasket
 (>125 °C up to 180 °C with RY inserts)

CGIE

panel cut-out for bulkhead mounting housings

**MGPE**

CGCP FX
Dust protection
cover
 (from page 697)



according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CD	40 poles + ⊕	70
CDD	72 poles + ⊕	79
CDS	27 poles + ⊕	-
CDSH	27 poles + ⊕	88
CNE	16 poles + ⊕	112
CSE	16 poles + ⊕	-
CSH	16 poles + ⊕	112
CSH S	16 poles + ⊕	124
CCE	16 poles + ⊕	132
CMSH, CMCE	6+2 (aux) poles + ⊕	138 - 139
CSS	16 poles + ⊕	150
CQE	32 poles + ⊕	170
CQEE	40 poles + ⊕	176
CP	6 poles + ⊕	178
CX	6/12, 6/36 and 12/2 poles + ⊕	197 - 199
CX	4/0 and 4/2 poles + ⊕	200 - 201
MIXO	4 modules	262 - 317

hoods,
screw locking



3.000 HOURS

covers,
screw locking



3.000 HOURS

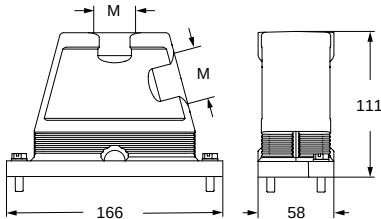
description	part No.	entry M	part No.
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with side entry			
size "77.27"	MGOE 16.32	32	
size "77.27"	MGOE 16.40	40	
size "77.27"	MGOE 16.50	50	
with top entry			
size "77.27"	MGVE 16.25	25	
size "77.27"	MGVE 16.225	25 x 2	
size "77.27"	MGVE 16.32	32	
size "77.27"	MGVE 16.40	40	
size "77.27"	MGVE 16.50	50	

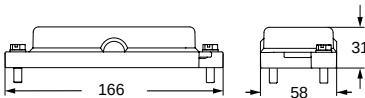
CGCE 16

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +180 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB
Dust protection
cover
(from page 697)



according to IEC/EN 60529

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

**bulkhead mounting housings
screw locking**
3.000 HOURS
**surface mounting housings
screw locking**
3.000 HOURS

description

part No.

part No.

entry
M

with gasket, size "104.27"

CGIE 24

size "104.27"

MGPE 24.40

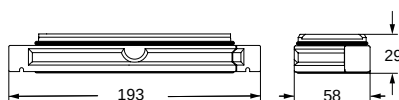
40

size "104.27"

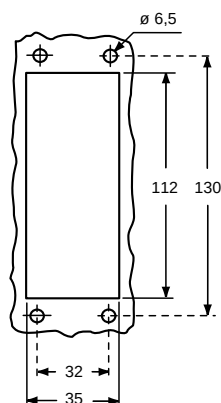
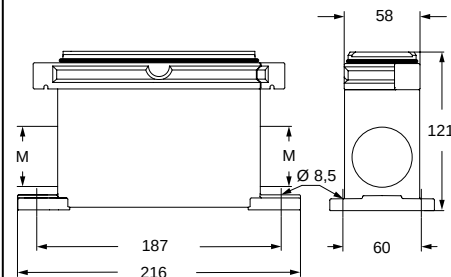
MGPE 24.240

40 x 2

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +180 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

CGIE

panel cut-out for bulkhead mounting housings

**MGPE**
CGCP FX
Dust protection
cover
 (from page 697)


according to IEC/EN 60529



CG and MG high protection IP68 version E-Xtreme®

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

hoods,
screw locking



3.000 HOURS

covers,
screw locking



3.000 HOURS

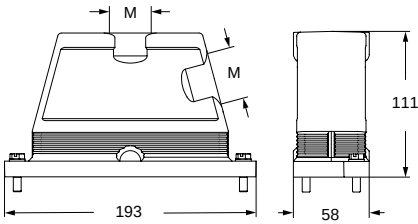
description	part No.	entry M	part No.
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with side entry		
size "104.27"	MGOE 24.32	32
size "104.27"	MGOE 24.40	40
size "104.27"	MGOE 24.50	50
with top entry		
size "104.27"	MGVE 24.325	25 x 3
size "104.27"	MGVE 24.32	32
size "104.27"	MGVE 24.232	32 x 2
size "104.27"	MGVE 24.40	40
size "104.27"	MGVE 24.240	40 x 2
size "104.27"	MGVE 24.50	50

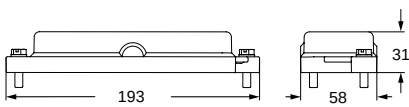
CGCE 24

- 3.000 hours in salt spray tests (EN ISO 9227)
- temperature limits: -40 °C ... +180 °C
- on request -60 °C ... +180 °C with silicone gasket
- (>125 °C up to 180 °C with RY inserts)

MGOE and MGVE



CGCE



CGCP MB
Dust protection
cover
(from page 697)



according to IEC/EN 60529