

T-TYPE standard

For modular and standard inserts

Alongside the wide range of traditional metallic enclosures for multipole connectors, ILME first "pioneered" a **series of enclosures in self-extinguishing thermoplastic material** in the most common sizes "44.27", "57.27", "77.27" and "104.27".

Quality and money saving are the main features of these enclosures, as an outcome of careful product studies.

Valuable characteristics of these versions of enclosures:

- **significant structural solidity** and mechanical robustness by virtue of **substantial thickness**;
- **external dimensions** of the bulkhead mounting housings are **similar to those of the corresponding metallic enclosures**; **hole fixing centres are unchanged**;

- **pre-fastened gaskets** for easier installation;
- **wide space inside the enclosures** for cables, with mounted connector inserts, similar to the corresponding "high construction" versions;
- possibility of making **total insulation** constructions (equivalent to Class II) ☐ ;
- **absence of powder paint** for environments in which these are not recommended (e.g. to avoid food contamination).

STANDARD APPLICATIONS

SUM-UP

- ☑ Enclosures in thermoplastic material, dark grey RAL 7012 colour, with high thicknesses providing structural solidity and durability
- ☑ Built-in polyurethane gaskets
- ☑ Locking levers in thermoplastic material colour grey RAL 7001
- ☑ M25, M32 and M40 threaded cable entries
- ☑ IP65 degree of protection according to EN 60529
- ☑ UL TYPE 12 degree of protection according to ANSI/UL50
- ☑ Each enclosure carries its own part number, thread/size, conformity markings and UL type rating
- ☑ Ambient temperature range: -40 °C / +90 °C



Interchangeability with other ILME series

T-TYPE series housings can be coupled with metal hoods. Insulating hoods can be coupled with "V-TYPE" metal housings.

Hoods "57.27", "77.27" and "104.07" can be mounted on COB TCQ and COB BC frames simply by replacing the supplied levers with COB L levers (to be purchased separately).

Insulating enclosures are ideal for mounting of all ILME inserts with the exception of series models CT 40/ 64 and CTS 40/ 64 connector.

Inserts with 45° terminals of the CT series (screw-type terminals) and CTSE (spring terminals) are only insertable from the front (therefore not from the back) of the bulkhead mounting housings.

Being made by insulating material, they do not require a special reinforced insulation as metal ones do, for use with series CME higher voltage connector inserts (screw-type terminals).

With the exception of the limitations described below, it is generally possible to mount the MIXO series modular connectors and frames with the ground and screen anchors dedicated to this series.

Limitations

With respect to enclosures in metal alloy, ILME insulating enclosures have some limitations of use in combination with particular accessories:

- CRZ 06/ 10/ 16/ 24 reduction plates cannot be mounted with bulkhead mounting housings due to increased dimensions of the fastening flange of these insulating enclosures.
- The CYG 16 in-line joint cannot be mounted on the bulkhead mounting housings T-TYPE series because the gaskets of the latter do not fit together with the joint profile.
- The CYR 16.3 and CYR 24.4 round cable feed-throughs are difficult to position on their respective bulkhead mounting housings T-TYPE series.
- CPT 24 disposable protection cover cannot be mounted on insulating enclosures due to increased outer dimensions of these enclosures.
- MIXO series insert anchors cannot be mounted on TMAO 06/10 enclosures.
- CN insert anchors cannot be mounted on TMAO 06/10 enclosures.
- When using both cable entries of surface mounting housings, the conduit shall be of insulating type.

FOCUS ON:

1 Construction

By using the BC-MUL® moulding technique together with the use of MIL.BOX® material, **these enclosures are structurally solid and mechanically robust**, due to their increased thickness. They are particularly resistant to the main pollutants present in industrial environments. The lever enclosure pegs are built into the enclosures. The means for fastening the connector inserts to the enclosures consist of four M3 threaded metal inserts. Compared with metal construction enclosures, which – in order to comply with the electrical installation safety norms – must be earthed via a metal connection to the protective earth terminal of the inserts mounted inside the enclosures, this series of enclosures offers a solution for **total insulation constructions** ☐ (equivalent to class II) where necessary. The thermoplastic material used is RAL 7012 dark grey colour and **UL 94V-2** grade self-extinguishing and has passed the glow wire testing (GWEPT) in accordance with the EN IEC 60695-2-11 at **850 °C**, in excess of what required by the intended uses. The **surface mounting** high construction housings are supplied **with an open threaded entry** and diametrically opposite a closed threaded entry, which can be **opened** by the user, if required (with suitable tool). Manufactured from insulating material, they do not require **special reinforced insulation** as the metal versions do, for use with series **CME higher voltage** connector inserts (screw-type terminals), available only upon request.

2 Gaskets

T-TYPE standard sealing gaskets have been produced by means of the FIPFG technology (Formed-In-Place-Foam-Gasket). They have therefore been incorporated in the base flange on bulkhead mounting housings for easier installation.

☑ **T-TYPE standard: Built-in polyurethane gaskets**

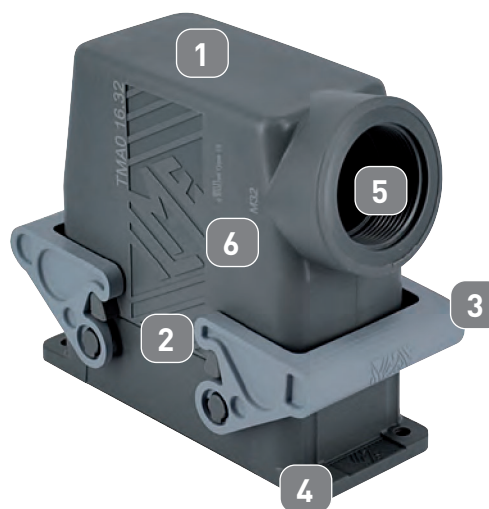
3 Levers

The locking levers have been produced in self-extinguishing thermoplastic material, grey RAL 7001 colour.

4 Dimensions

The internal dimensions allow mounting of all connector inserts in their relevant sizes. The external dimensions of the bulkhead mounting housings are similar to those of the corresponding metallic enclosures; hole fixing centres are unchanged.

Hoods offer an inner cabling space similar to that of the “high” construction models of the corresponding metal enclosures. Other characteristics are in compliance with the applicable safety standard for electrical connectors, IEC/EN 61984.



5 Cable entries

The housing and hood cable entries are available with metric thread, respectively:

- Q **M25 or M32** for smaller sizes “44.27” and “57.27”.
- Q **M32 or M40** for larger sizes “77.27” and “104.27”.

The recent standard IEC/EN 61076-7-100 regarding metric cable entries for multipole electrical connectors for heavy duty uses, which standardises some main dimensions for entries and their related accessories (gaskets, pressure nuts), have been carefully considered in the product design.

6 Markings

Each enclosure carries its own part number and conformity markings.

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	6 poles + ⊕	160
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

*) only for standard insulating version TCHI

housings with single lever

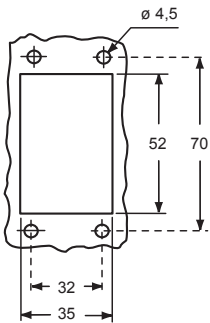


hoods with 2 pegs

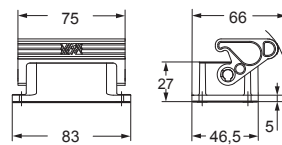


description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic lever	TCHI 06 L			
surface mounting housing with thermoplastic lever, high construction	TMAP 06 L25	25		
surface mounting housing with thermoplastic lever, high construction	TMAP 06 L32	32		
with pegs, side entry, high construction			TMAO 06 L25	25
with pegs, side entry, high construction			TMAO 06 L32	32
with pegs, top entry, high construction			TMAV 06 L25	25
with pegs, top entry, high construction			TMAV 06 L32	32

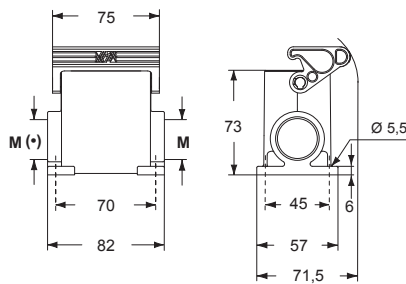
panel cut-out for bulkhead mounting housings



TCHI L

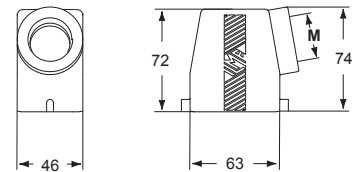


TMAP L

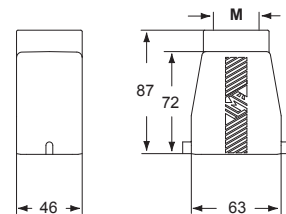


(*) The surface mounting, high construction housings are supplied with an open threaded entry (*) and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

TMAO L



TMAV L



CAIUS® Type 12



ambient temperature limits -40 °C / +90 °C

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	6 poles + ⊕	160
CQE	10 poles + ⊕	168
MIXO	2 modules	262 - 317

*) only for standard insulating version TCHI

hoods with single lever top entry

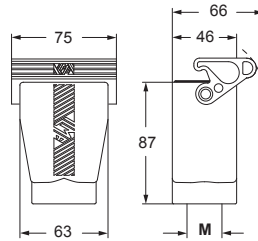


covers

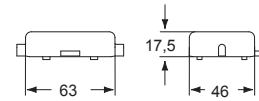


description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic lever and gasket, high construction	TMAV 06 LG25	25		
with thermoplastic lever and gasket, high construction	TMAV 06 LG32	32		
with pegs			TCHC 06 L	TCHC 06 SL
with thermoplastic lever and gasket				TCHC 06 LG

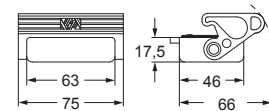
TMAV LG



TCHC L (SL)



TCHC LG



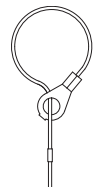
For fixing on housings

eyelet



For fixing on hoods

loop



CE **UL** **US** Type 12



ambient temperature limits -40 °C / +90 °C

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	10 poles + ⊕	161
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

*) only for standard insulating version TCHI

housings with double lever

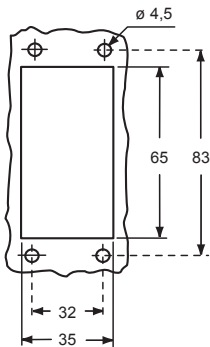


hoods with 4 pegs

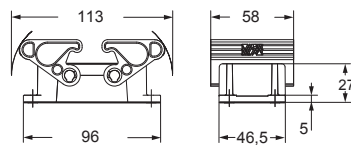


description	part No.		entry	
			M	M
bulkhead mounting housing with thermoplastic levers	TCHI 10			
surface mounting housing, thermoplastic levers, high construction	TMAP 10.25		25	
surface mounting housing, thermoplastic levers, high construction	TMAP 10.32		32	
with pegs, side entry, high construction				TMAO 10.25 25
with pegs, side entry, high construction				TMAO 10.32 32
with pegs, top entry, high construction				TMAV 10.25 25
with pegs, top entry, high construction				TMAV 10.32 32

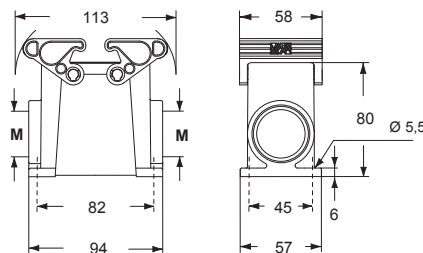
panel cut-out for bulkhead mounting housings



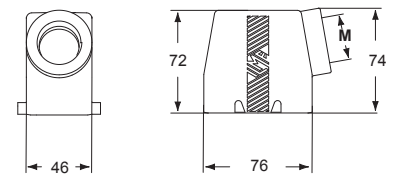
TCHI



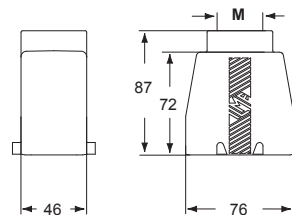
TMAP



TMAO



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

CAIUS® Type 12



ambient temperature limits -40 °C / +90 °C

T-TYPE STANDARD

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	10 poles + ⊕	161
CQE	18 poles + ⊕	169
CX	8/24 poles + ⊕	194
MIXO	3 modules	262 - 317

*) only for standard insulating version TCHI

hoods with double lever top entry

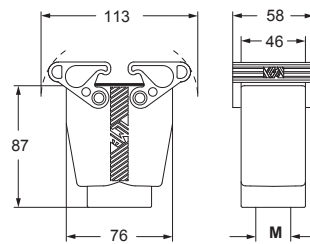


covers

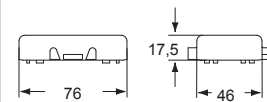


description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	TMAV 10 G25	25		
with thermoplastic levers and gasket, high construction	TMAV 10 G32	32		
with 4 pegs			TCHC 10	TCHC 10 S
with 2 thermoplastic levers and gasket				TCHC 10 G

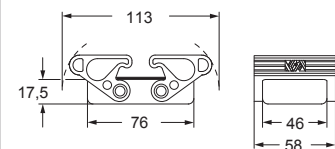
TMAV G



TCHC (S)



TCHC G



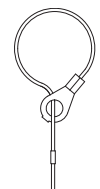
For fixing on housings

eyelet



For fixing on hoods

loop



CRUS Type 12



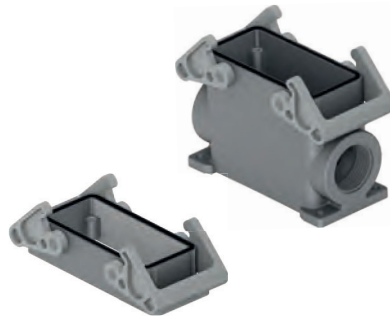
ambient temperature limits -40 °C / +90 °C

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	16 poles + ⊕	162
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

*) only for standard insulating version TCHI

housings with double lever

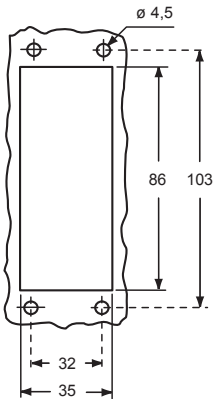


hoods with 4 pegs

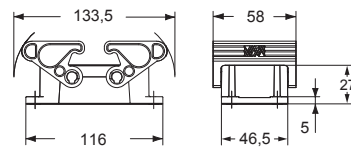


description	part No.	entry M	part No.	entry M
bulkhead mounting housing with thermoplastic levers	TCHI 16			
surface mounting housing, thermoplastic levers, high construction	TMAP 16.32	32		
surface mounting housing, thermoplastic levers, high construction	TMAP 16.40	40		
with pegs, side entry, high construction			TMAO 16.32	32
with pegs, side entry, high construction			TMAO 16.40	40
with pegs, top entry, high construction			TMAV 16.32	32
with pegs, top entry, high construction			TMAV 16.40	40

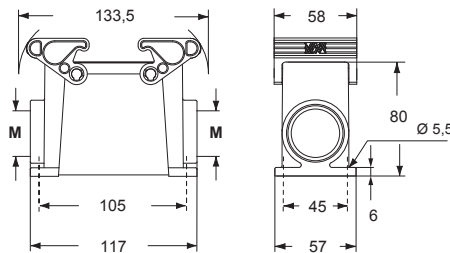
panel cut-out for bulkhead mounting housings



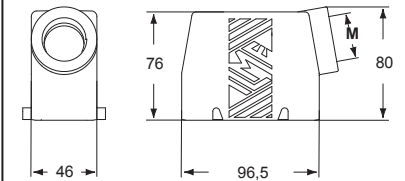
TCHI



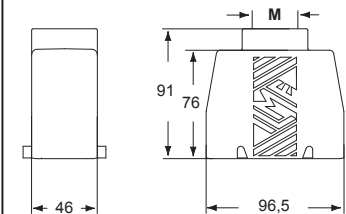
TMAP



TMAO



TMAV



The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

CAVUS® Type 12



ambient temperature limits -40 °C / +90 °C

T-TYPE STANDARD

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	16 poles + ⊕	162
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

*) only for standard insulating version TCHI

hoods with double lever top entry

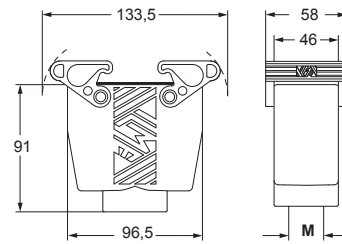


covers

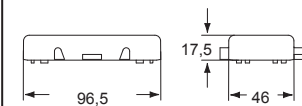


description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	TMAV 16 G32	32		
with thermoplastic levers and gasket, high construction	TMAV 16 G40	40		
with 4 pegs			TCHC 16	TCHC 16 S
with 2 thermoplastic levers and gasket				TCHC 16 G

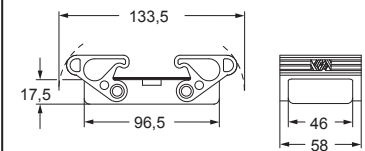
TMAV G



TCHC (S)

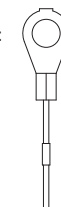


TCHC G



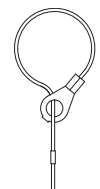
For fixing on housings

eyelet



For fixing on hoods

loop



CRUS® Type 12

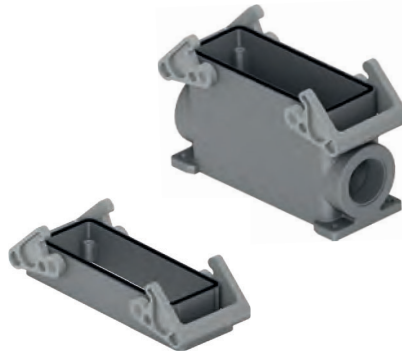
ambient temperature limits -40 °C / +90 °C

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

*) only for standard insulating version TCHI

housings with double lever

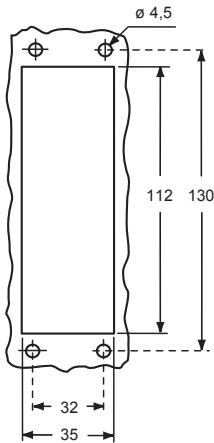


hoods with 4 pegs

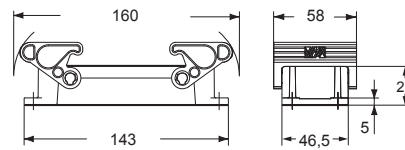


description	part No.	entry		part No.	entry	
			M			M
bulkhead mounting housing with thermoplastic levers	TCHI 24					
surface mounting housing, thermoplastic levers, high construction	TMAP 24.32		32			
surface mounting housing, thermoplastic levers, high construction	TMAP 24.40		40			
with pegs, side entry, high construction				TMAO 24.32		32
with pegs, side entry, high construction				TMAO 24.40		40
with pegs, top entry, high construction				TMAV 24.32		32
with pegs, top entry, high construction				TMAV 24.40		40

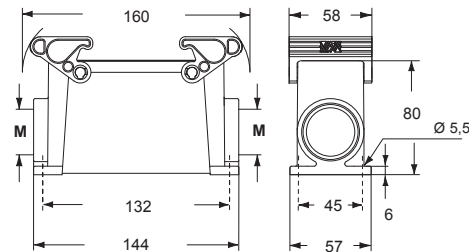
panel cut-out for bulkhead mounting housings



TCHI

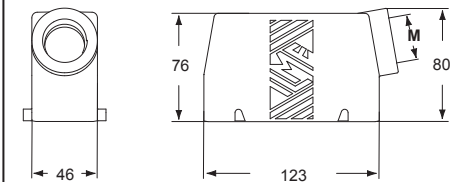


TMAP

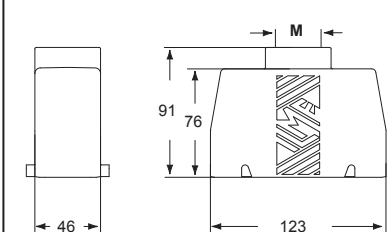


The surface mounting, high construction housings are supplied with an open threaded entry and diametrically opposite a closed threaded entry which can be opened by the user if required (with suitable tool).

TMAO



TMAV



CAIUS® Type 12



ambient temperature limits -40 °C / +90 °C

T-TYPE STANDARD

T-TYPE insulating STANDARD APPLICATIONS

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
CT, CTSE (16A) *)	24 poles + ⊕	163
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

*) only for standard insulating version TCHI

hoods with double lever top entry

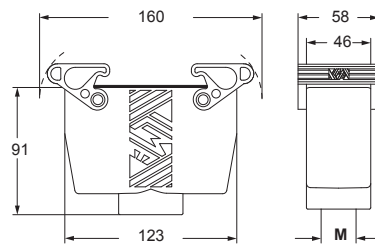


covers

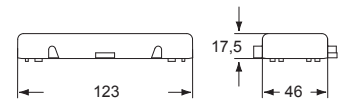


description	part No.	entry M	part No. (with eyelet)	part No. (with loop)
with thermoplastic levers and gasket, high construction	TMAV 24 G32	32		
with thermoplastic levers and gasket, high construction	TMAV 24 G40	40		
with 4 pegs			TCHC 24	TCHC 24 S
with 2 thermoplastic levers and gasket				TCHC 24 G

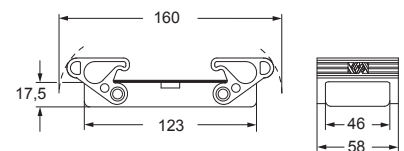
TMAV G



TCHC (S)



TCHC G



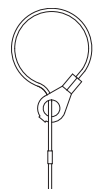
For fixing on housings

eyelet



For fixing on hoods

loop



CAIUS® Type 12



ambient temperature limits -40 °C / +90 °C