

MINI ENCLOSURES, DESCRIPTION AND TECHNICAL PROPERTIES

DESCRIPTION

High quality all purpose polycarbonate enclosures suitable for single assemblies. Impact resistant. Designed and manufactured to IP 67 giving complete protection to enclosed apparatus against dust and moisture.

DIMENSIONS

5 sizes on a modular basis using 75 – 125 – 175 – 250 mm dimensions.

Base depth 50 mm, lid depth 25, 50, 75 or 100 mm, total depth 75 – 150 mm.

KNOCKOUTS

All bases have prepressed knockouts for Pg 9 and 13,5 on long sides and Pg 16 and 21 on short sides. A version with smooth sides, without knockouts, is available under the name of MIMO.

LID SCREWS

Robust dimensioned solid plastic lid screws, located outside gasketed area.

WALL MOUNTING

Directly through enclosed base in lid screw cavity outside gasketed area, or with separate mounting lugs.

EQUIPMENT MOUNTING

For direct mounting of DIN rails and mounting panels, all sizes have mounting pods for selfcutting 3.9x9.5 mm screws (throughout) along the sides.

HINGES

Can be mounted on all sides. Material is PA.

MATERIALS

Bases: rigid 20% glass reinforced PC, colour RAL 7035 (Europe grey)

Covers: tough unfilled PC, crystal clear transparent or grey RAL 7035

Cover screws: Tough, low friction PA6, colour RAL 7035

Cover gaskets: oil and acid resistant chloroprene rubber

Mounting panels: Heavy gauge galvanized steel sheet.

SPECIFICATIONS

Degree of protection: IP 67 (acc. to IEC 529/DIN 40050)

Dust and jet water tight, submersible (IP 679 acc. to NFC 20010)

Safety: Total insulation (acc. to IEC 439).

APPROVALS

- Electrical Inspectorate Finland to E3-70, SFS 2972, IEC 529
- Lloyd's Register of Shipping, London
- USSR Register of Shipping
- Germanischer Lloyd
- UL 508

TEMPERATURE RANGE

The tough and elastic properties of the polycarbonate enclosure material are retained to very high (+130) and down to very low (-150) temperatures; meaning that enclosure properties like impact resistance and stability only vary marginally in a practical temperature range from +120 to -50.

For long term (years) exposure we recommend though not to exceed 80 degr. C.

CHEMICAL RESISTANCE

Polycarbonate is resistant to mineral acids up to high concentrations, many organic acids (e.g. carbon dioxide, lactic, oleic and citric acids), oxidants and reducing agents, neutral and acid salt solutions, greases and oils, saturated aliphatic and cycloaliphatic hydrocarbons and alcohols, except for methyl alcohol.

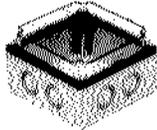
Polycarbonate is destroyed by alkaline solutions, ammonia gas and its solution and amines. Polycarbonate is soluble in a number of commercial solvents. Other organic compounds such as benzene, acetone and carbon tetrachloride have a superficial swelling effect.

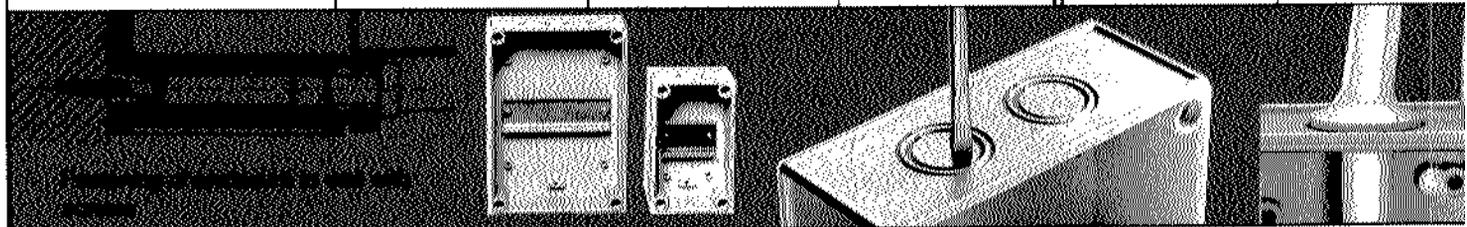
RESISTANCE AGAINST CORROSION

These enclosures are moulded from a homogenous thermoplastic polycarbonate. Even if abused they do neither dent nor chip, there is no paint to flake off. They behave well for years in environments where sheet steel would rust after months. The surface does not powder, the material is non-hygroscopic and there are no long glassfibre strands embedded which could suck in moisture.

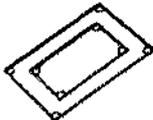
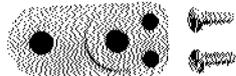
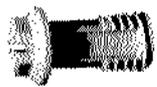
RESISTANCE TO U.V. RADIATION

The outdoor stability of the polycarbonates used is generally adequate. The enclosures have been tested in practice in tropical latitudes. We recommend though to avoid excessive exposure when using transparent covers.

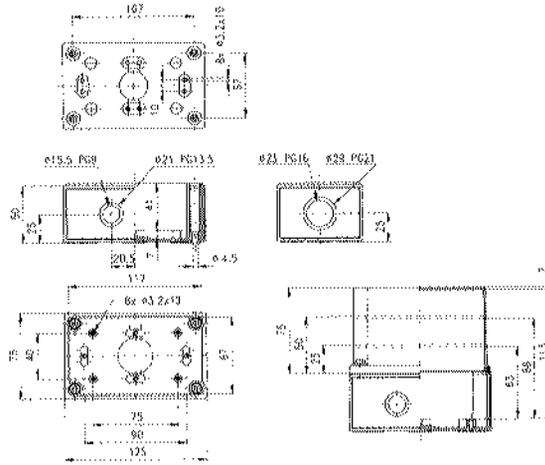
MINI ENCLOSURES  IP 67 RAL 7035	Complete enclosure T = Transparent G = Grey 			Cover separate 	
	Ordering symbol	Measurements	Code	Ordering symbol	Measurements
Size 100 	MI 100/75 T MI 100/75 G MI 100/100 T MI 100/100 G MI 100/125 T MI 100/125 G	75×125×75 " 75×125×100 " 75×125×125 "	75314030 75314330 75314031 75314331 75314032 75314332	I 100/25 T I 100/25 G I 100/50 T I 100/50 G I 100/75 T I 100/75 G	75×125×25 " 75×125×50 " 75×125×75 "
Size 125 	MI 125/75 T MI 125/75 G MI 125/100 T MI 125/100 G MI 125/125 T MI 125/125 G	125×125×75 " 125×125×100 " 125×125×125 "	75314033 75314333 75314034 75314334 75314035 75314335	I 125/25 T I 125/25 G I 125/50 T I 125/50 G I 125/75 T I 125/75 G	125×125×25 " 125×125×50 " 125×125×75 "
Size 150 	MI 150/75 T MI 150/75 G MI 150/100 T MI 150/100 G MI 150/125 T MI 150/125 G MI 150/150 T MI 150/150 G	125×175×75 " 125×175×100 " 125×175×125 " 125×175×150 "	75314036 75314336 75314037 75314337 75314038 75314338 75314095 75314395	I 150/25 T I 150/25 G I 150/50 T I 150/50 G I 150/75 T I 150/75 G I 150/100 T I 150/100 G	125×175×25 " 125×175×50 " 125×175×75 " 125×175×100 "
Size 175 	MI 175/75 T MI 175/75 G MI 175/100 T MI 175/100 G MI 175/125 T MI 175/125 G MI 175/150 T MI 175/150 G	175×175×75 " 175×175×100 " 175×175×125 " 175×175×150 "	75314039 75314339 75314040 75314340 75314041 75314341 75314050 75314350	I 175/25 T I 175/25 G I 175/50 T I 175/50 G I 175/75 T I 175/75 G I 175/100 T I 175/100 G	175×175×25 " 175×175×50 " 175×175×75 " 175×175×100 "
Size 200 	MI 200/75 T MI 200/75 G MI 200/100 T MI 200/100 G MI 200/150 T MI 200/150 G	175×250×75 " 175×250×100 " 175×250×150 "	75314092 75314392 75314094 75314394 75314051 75314351	I 200/25 T I 200/25 G I 200/50 T I 200/50 G I 200/100 T I 200/100 G	175×250×25 " 175×250×50 " 175×250×100 "



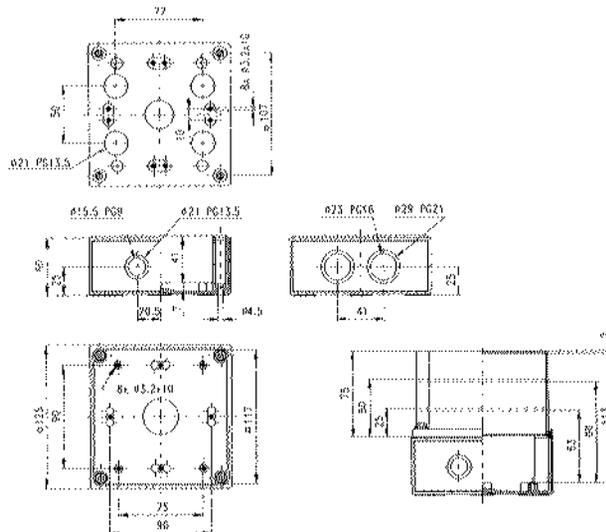
Dimensions	Code
5x25	75714016 75714316
5x50	75714015 75714315
5x75	75714008 75714308
5x100	75714019 75714319 75714017 75714317 75714018 75714318
5x25	75714020 75714320
5x50	75714019 75714319
5x75	75714010 75714310
5x100	75714045 75714345
5x25	75714022 75714322
5x50	75714021 75714321
5x75	75714023 75714323
5x100	75714044 75714344

	Ordering symbol	Measurements	Code
Base separate 	M 100 M 125 M 150 M 175 M 200	75×125×50 125×125×50 125×175×50 175×175×50 175×250×50	75514104 75514105 75514106 75514107 75514113
Gasket separate 	M 100 M 125 M 150 M 175 M 200	75×125 125×125 125×175 175×175 175×250	75514105 75514106 75514107 75514108 75514113
Mounting plate 	MIV 100 MIV 125 MIV 150 MIV 175 MIV 200	48× 98×1,5 98× 98×1,5 98×148×1,5 148×148×1,5 148×223×1,5	75714076 75714077 75714078 75714079 75714080
Mounting rail  DIN 46277/3  DIN 46277/1	MIV 100 MIV 125 MIV 150 MIV 175 MIV 200 MIV 100 MIV 125 MIV 150 MIV 175 MIV 200	50 mm 100 150 225 300 50 mm 100 150 225 300	75714075 75714076 75714077 75714078 75714079 75714080 75714075 75714076 75714077 75714078 75714079
Hinge   Sealing bushing  Fastening lug  Cover screw  Mounting screw 	PA 14053 FA 14047 PA 15001 SB 14025 FP 10674 SS 14027 MS 14042	Pair incl. screws – polyamide Drill template – steel Drill template – plastic Polyethylene Pair incl. screws – polycarbonate Polyamide Self cutting	75514053 75714047 75714051 75514025 75510674 75514027 75514042

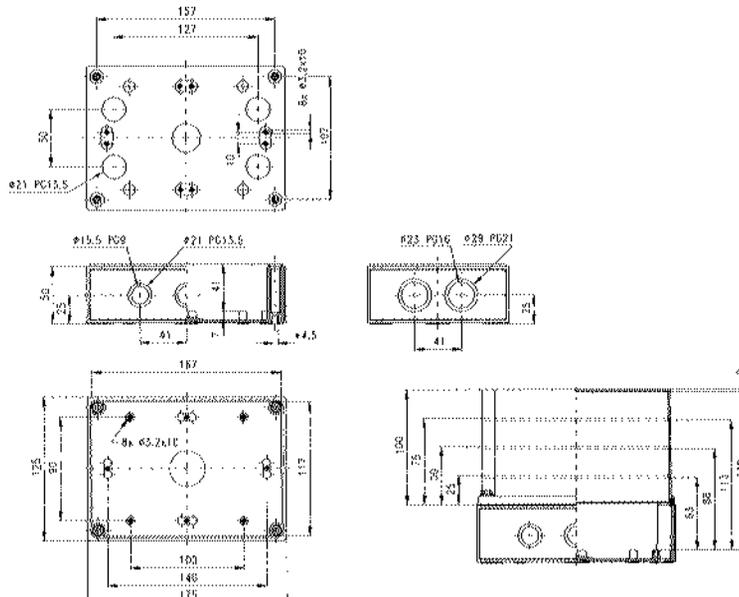
MI 100



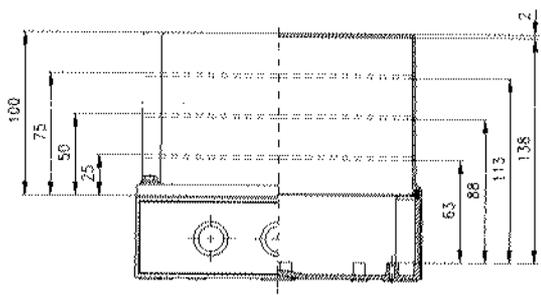
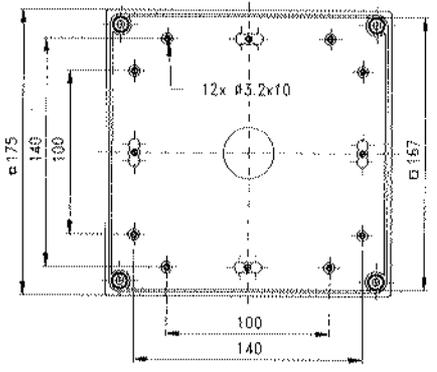
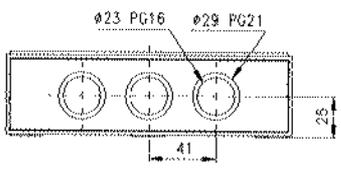
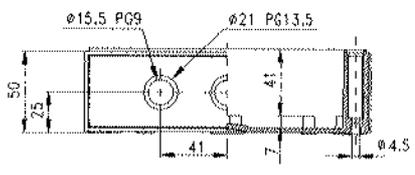
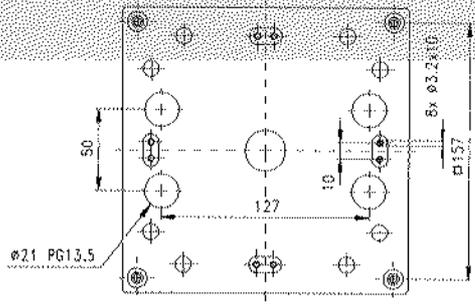
MI 125



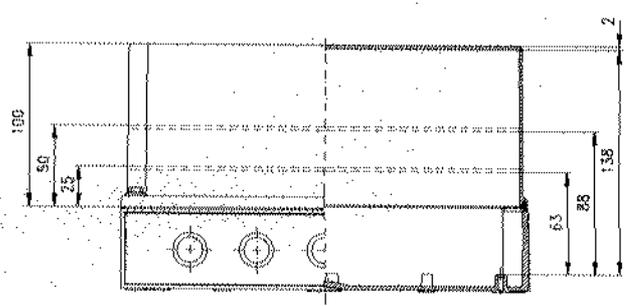
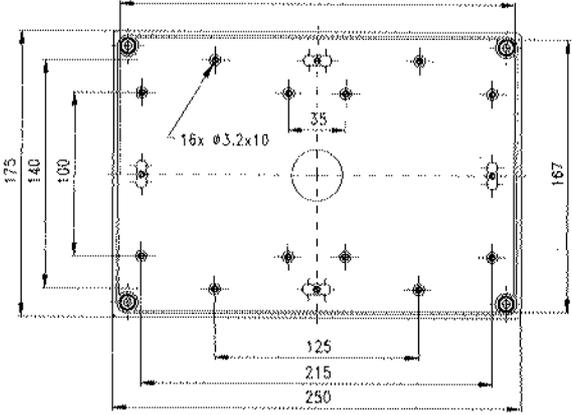
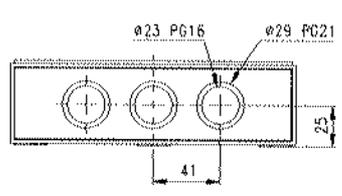
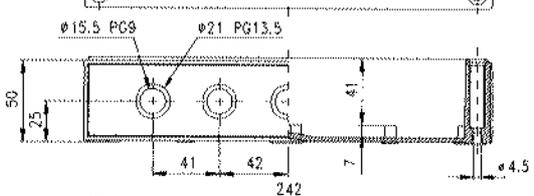
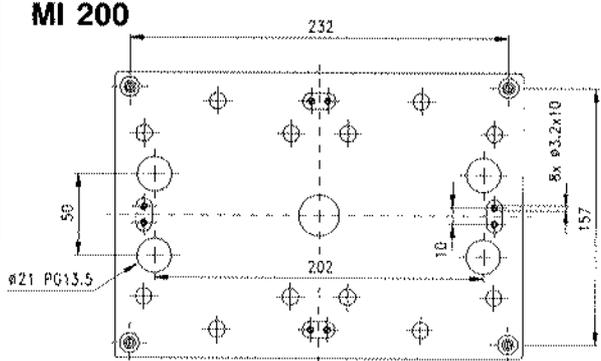
MI 150



MI 175



MI 200



Subject to technical alterations.