

APP.	FIBOX ENCLOSURE CD-ROM CATALOGUE	2
http://www.fibox.com	FIBOX IS ON THE WEB FOR YOU	
	QUALITY	
	CUSTOMISING	6
	SMALL TO MEDIUM SIZE ENCLOSURES	
	SIMILE TO MEDIONI SIZE ENGLOSSINES	
FIBOX MNX	PC / ABS / P 52 x 50 x 40 mm to 300 x 230 x 110 mm	
	FIBOX MNX PC / F / PCM / ABS	7_1/
	TIBOX WINX TO / T / TOWI / ADS	, 14
	FIBOX MINI PC / PG / MO15	5-20
	FIROV PIGGOLO PO / APO	1 0 1
FIBOX MINI	FIBOX PICCOLO PC / ABS	1-24
	FIBOX EURONORM PC / ABS / ALUMINIUM / POLYESTER 25	5-34
	MEDIUM TO LARGE SIZE ENCLOSURES	
FIBOX EURONORM	190 x 190 x 130 mm to 600 x 400 x 220 mm	
FIBOX EURONORM		
FIBOX EURONORM	190 x 190 x 130 mm to 600 x 400 x 220 mm FIBOX SOLID PC / ABS / PG / HINGED COVER	5-40
FIBOX EURONORM	FIBOX SOLID PC / ABS / PG / HINGED COVER	
FIBOX EURONORM		
	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62
	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62
	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62
	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62
	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62 1-62
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62 1-62
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62 1-62
FIBOX SOLID	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62 1-62 3-66
FIBOX SOLID FIBOX CAB	FIBOX SOLID PC / ABS / PG / HINGED COVER	1-50 1-62 1-62 1-62 1-62 3-66

INSPECTION WINDOWS 73-76



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Fibox Enclosure Catalogue on CD -ROM

What's new?

The new CD - ROM includes all the latest new product introductions (MNX, CAB etc.) The user interface has been improved and is now easier to use. Software enhancements have reduced response times for accessing the data base

It is a real designer's tool for selecting the right enclosure.

Features of the CD

Contains a full enclosure catalogue complete with all Fibox product families and accessories.

Selection of the ideal enclosure by searching your most critical parameter (material, NEMA rating, size, etc.)

Contains scaleable drawings, presented in either metric or inch dimensions. (Inch sizes are for reference only.)

Computer aided design drawings, usable by the engineer's own CAD system. (Available formats: DRW, IGS, and DXF.)

Presentation of services available for modification and customisation by the factory.

Includes eleven languages: American, German, Danish, English, French, Italian, Dutch, Estonian, Polish, Finnish and Swedish.

General information.

The Fibox Enclosure Catalogue is available in a CD-ROM version. To use our latest CD-ROM, the following minimum system configuration is required: IBM compatible PC with 386 processor, 4 MB RAM, 15 MB free hard drive disk space and Windows 3.1 or newer operating system.





FIBOX is on the WEB for YOU

Find Fibox support services on the world wide web.

Visit our multi-language WEB site. As a global, multinational company, our home page is available in English, French, German, Swedish, Korean and Finnish.

No time for drawing enclosures?

At http://www.fibox.com, Fibox lends a helping hand to designers with CAD format drawings which can be easily downloaded. Select only the drawings you need for your selected enclosure and complete your design quickly. Save time with drawings available in both inches and millimetres.

Need technical specifications, accessories or agency approvals? At http://www.fibox.com, you can obtain the technical information you need to complete your design. Select your enclosure, and print a PDF file with a photo, dimensional drawing (in metric and inches), part numbers, ordering codes, technical data and regulatory agency approvals. There is even a list of correct accessories, ready for you to print. Select only the information you want and need!

The world changes and so do we.

At http://www.fibox.com, you can see the latest Fibox products and services. As a leader in injection moulding for the electrical and electronics industries, there is always something new at Fibox. Visit our WEB site to keep abreast of new products and services, the latest in customising options, or our growing list of accessories. Our electronic newsletter will introduce you to new products, new applications and new services, plus add a personal touch as you get to know Fibox around the world.

Need technical or promotional material?

At **http://www.fibox.com**, you can request our catalogue, full colour data sheets, press releases, manufacturers declarations, CD-ROM and much more. Just click the envelope and specify what you need.

Your thoughts, please!

Give us feedback. Tell us what you like and what you don't like! Write to us from http://www.fibox.com, or E-mail us at info@fibox.fi. We are committed to continually improving our service to you. Please help us by sharing your opinions with us.

YOU surf to US and let US serve YOU









FIBOX



FIBOX

FIBOX K

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FIBOX SPACE LINK

FIBOX CARDMASTER

FIBQX,

FIBOX



FIBOX QUALITY CREATES CUSTOMER ADVANTAGE

Fibox has developed a sophisticated quality system to assure our customers of the reliability and consistency of our products and our service. All aspects of our operations, from design and development through to production and product delivery, are documented to ensure superior performance. Performance you can rely on.

Fibox is an ISO 9001 certified manufacturer and was awarded its certificate by Bureau Veritas Quality International in 1992. This approval covers specifications defined by ISO 9001:1994.



THE FIBOX QUALITY POLICY

The Fibox approach to quality is documented in the Fibox Quality Policy manual.

THE FIBOX QUALITY SYSTEM

The Fibox quality system applies not only to product quality and safety, but availability of product, accuracy of shipments, technical support and customer service. The continued success of this program is assured by regular internal and independent external audits.



NEMA/UL CLASSIFICATIONS OF PROTECTION

The National Electrical Manufacturers Association (NEMA) is a US Manufacturers Organisation which actively promotes standardised product specifications for electrical apparatus.

NEMA performance criteria and test methods are used by Underwriters' Laboratories as guidelines for investigation and listing of electrical enclosures.

Approximate IP equivalents in parentheses

- NEMA 1: Indoor use primarily to provide a degree of protection against contact with the enclosed equipment and against a limited amount of falling dirt. (IP30)
 - 2: Indoor use to provide a degree of protection against limited amounts of falling water and dirt. (IP31)
 - Outdoor use to provide a degree of protection against windblown dust, rain, and sleet; undamaged by the formation of ice on the enclosure. (IP64)
 - 3R: Outdoor use to provide a degree of protection against falling rain and sleet: undamaged by the formation of ice on the enclosure. (IP32)
 - 3S: Outdoor use to provide a degree of protection against windblown dust, rain and sleet; external mechanisms remain operable while ice laden.
 - 4: Indoor or outdoor use to provide a degree of protection against splashing water, windblown dust and rain, hose directed water; undamaged by the formation of ice on the enclosure. (IP66)
 - 4X: Indoor or outdoor use to provide a degree of protection against splashing water, windblown dust and rain, hose directed water; undamaged by the formation of ice on the enclosure, resists corrosion. (IP66)
 - 6: Indoor or outdoor use to provide a degree of protection against the entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure.
 - 6P: Indoor and outdoor use to provide a degree of protection against the entry of water during prolonged submersion at a limited depth.
 - Indoor use to provide by oil immersion a degree of protection of the enclosed equipment against the corrosive effects of corrosive liquids and gases.
 - 12,12K: Indoor use to provide a degree of protection against dust, falling dirt and dripping noncorrosive liquids. (IP65)
 - Indoor use to provide a degree of protection against dust and spraying of water, oil and noncorrosive coolants. (IP65)



THE IP AND IK CLASSIFICATIONS

Ingress protection class of enclosures is given in the form of IP classification, a two digit coding which is shown below. Fibox has tested the enclosures according to IEC 529 or the newer EN 60529 4:1992. The latter requires the second digit to be tested from class 6 upwards separately to each level of class, thus the double marking IP 66 / IP 67 indicates that the actual tests have been made for both levels.

The new European standard for empty enclosures, EN 50298:98 includes the new IK impact test, too. This test is described in EN 50102, and as Fibox enclosures are being tested to EN 50298:98, the data for impact resistance will be available as well.

FIRST NUMBER Protection against solid objects			SECOND NUMBER Protection against liquids		IK CODE Protection against mecha	NEW anical impacts
ΙP		TEST	IP	TEST	IK	TEST
0	1 × 1	no protection	0	no protection	00 🔑	no protection
1		protected against solid objects up to 50 mm e g accidental touch by hands.		protected against vertically falling drops of water.	01-05	impact < 1 joule
2	1	protected against solid objects up to 12 mm e g fingers.	2	protected against direct sprays of water up to 15° from the vertical.	06 500 g	impact 1 joule
3		protected against solid objects over 2,5 mm (tools+ small wires).	3	protected against sprays to 60° from the vertical.	07 500 y	impact 2 joule
4		protected against solid objects over 1mm (tools+ small wires).	4	protected against water sprayed from all directions - limited ingress permitted.	1.7 kg	
5		protected against dust - limited ingress permitted (no harmful deposit).	5	protected against low pressure jets of water from all directions - limited ingress permitted.	08 29.5 cm	impact 5 joule
6		totally protected against dust.	6	protected against strong jets of water e g for use on shipdecks - limited ingress permitted.	09 5 kg	impact 10 joule
			7 to cm min	protected against the affects of immersion between 15 cm and 1 m.	1	
			8	protected against long periods of immersion under pressure.	10 5 kg	impact 20 joule

FIBOX

CUSTOMISATION SERVICES

Fibox is a leading innovator, designer and manufacturer of enclosures. Our products are marketed in over 40 countries world wide. We provide superior, cost effective solutions for protecting electrical and electronic equipment operating in hostile environments.

To increase the range and flexibility of our package solutions, Fibox has developed a comprehensive range of services, permitting cost effective customisation for specific applications.

The two most important of these are machining services and customised tooling.

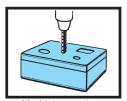
Our sophisticated CNC machinery can supply enclosures with holes, cutouts and openings to your specification. This solution is best suited for small to medium volumes of enclosures.

For large OEM volumes, our sophisticated, multiple slide tooling permits cost effective modification of any side of the enclosure. In this way, the OEM can have his custom product based upon a standard Fibox enclosure. The OEM will save both money and development time, enabling him to concentrate on product sales.

The Fibox Enclosure Catalogue on CD-ROM (PC) provides you the fastest route for choosing Fibox enclosures and accessories. Our interactive program guides you to the correct enclosure and accessories for your application. Technical data and drawing files (DWG, IGS, and DXF) allow the engineer to design and customise quickly.

See also page 14.

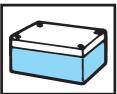
Fibox can customise your enclosures making them completely ready for your application.



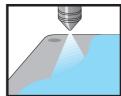
Machining services



Customised tooling



Coloured enclosures

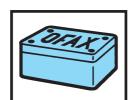


Painted enclosures



EMC shielding

for your own application.



Printed enclosures

The Fibox Enclosure Catalogue on CD-ROM (PC) gives you the fastest route for choosing products with appropriate accessories and making your own products. With the help of enclosure drawings (DWG-, IGES, DXF formats) on the CD-ROM, it is easy to customise standard enclosures





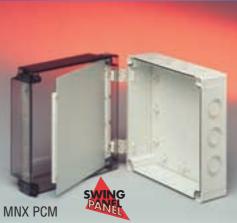


FIBOX









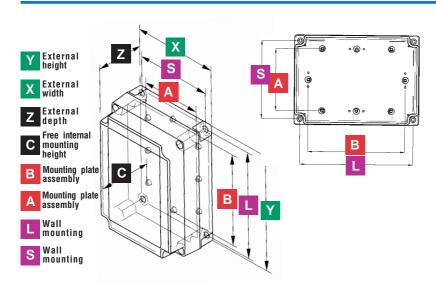
The FIBOX MNX range of enclosures represents the culmination of 30 years experience in enclosure design and manufacture. Unique tooling defines a new "State of the Art" for injection moulding. The FIBOX MNX polycarbonate and ABS range has been designed to house and protect electrical and electronic components in hostile environments. Three body depths, and up to 4 cover choices per body size, create over 170 variations.

Covers are available opaque or transparent "smoked grey". A wide selection of accessories is available including a hinged "Swing Out" inner panel, the "Swing Panel".

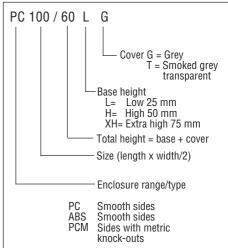
FIBOX MNX PC

FIBOX MNX POLYCARBONATE			Including: Enclosure cover w screws, base with mounting	rith cover screws and wing heads for cover plate screws and gasket.	B X A
PC: IP 66/67 and IP 66, IK 08	Z	C	ORDER SYMBOL	ORDER SYMBOL	L X S
	mm	mm	Grey cover	Smoked transparent cover	mm
PC 100 L	35	24.1	PC 100/35 LG	PC 100/35 LT	BxA
	75	65.9	PC 100/75 LG	PC 100/75 LT	90 x 40
100 80	100	90.9	PC 100/100 LG	PC 100/100 LT	LxS
130 mm 80 mm	'				113.5 x 63.5
PC 100 H	60	44.5	PC 100/60 HG	PC 100/60 HT	BxA
Y X X	100	86.3	PC 100/100 HG	PC 100/100 HT	90 x 40
30 mm 80 mm	125	111.3	PC 100/125 HG	PC 100/125 HT	LxS
30 111111 00 111111					113.5 x 63.5
PC 125 L	35	24.0	PC 125/35 LG	PC 125/35 LT	B x A
Y X X	50	40.9	PC 125/50 LG	PC 125/50 LT	90 x 90
130 mm 130 mm	75 100	65.9 90.9	PC 125/75 LG PC 125/100 LG	PC 125/75 LT PC 125/100 LT	LxS
	100	±0.∀	1 0 120/100 LG	1 0 120/100 L1	113.5 x 113.5
PC 125 H	60	44.4	PC 125/60 HG	PC 125/60 HT	BxA
YXX	75	61.0	PC 125/75 HG	PC 125/75 HT	90 x 90
130 mm 130 mm	100	86.2	PC 125/100 HG	PC 125/100 HT	LxS
	125	111.3	PC 125/125 HG	PC 125/125 HT	113.5 x 113.5
PC 150 L	35	23.6	PC 150/35 LG	PC 150/35 LT	B x A
Y X X	50	40.9	PC 150/50 LG	PC 150/50 LT	140 x 90
180 mm 130 mm	75	65.9	PC 150/75 LG	PC 150/75 LT	LxS
	100	90.9	PC 150/100 LG	PC 150/100 LT	163.5 x 113.
PC 150 H	60	44.0	PC 150/60 HG	PC 150/60 HT	B×A
Y X X	75	61.3	PC 150/75 HG	PC 150/75 HT	140 x 90
180 mm 130 mm	100	86.3	PC 150/100 HG	PC 150/100 HT	LxS
130 11111	125	111.3	PC 150/125 HG	PC 150/125 HT	163.5 x 113.5
PC 175 H	60	44.0	PC 175/60 HG	PC 175/60 HT	BxA
YXX	100	86.3	PC 175/100 HG	PC175/100 HT	140 x 140
180 mm 180 mm					
100 11111					L x S 163.5 x 163.
PC 200 H	60	44.0	PC 200/60 HG	PC 200/60 HT	BxA
	75	61.2	PC 200/75 HG	PC 200/75 HT	215 x 140
YXX	100	86.3 135.9	PC 200/100 HG PC 200/150 HG	PC 200/100 HT PC 200/150 HT	
255 mm 180 mm	85	69.6	PC 200/85 XHG	PC 200/85 XHT	LxS
PC 200 XH	100	86.8	PC 200/100 XHG	PC 200/100 XHT	238.5 x 163.
		111.9	PC 200/125 XHG	PC 200/125 XHT	
xternal X External		161.5 internal	PC 200/175 XHG Mounting plate assembly B X	PC 200/175 XHT	

FIBOX MNX PC



SYMBOLS AND ABBREVIATIONS



FIBOX MNX F COVER FOR MEMBRANE KEYBOARDS



		Please order separat cover screw set MBS screws, 4 x grey win	ВХА		
Z	C	ORDER SYMBOL Base	PRODUCT		L X S
60	44	PC 175H	PC base		140 x 140 163.5 x 163.5
60	44	PCM 175H	Base with metric knockouts		140 x 140 163.5 x 163.5
60	44	A 175H	ABS base		140 x 140 163.5 x 163.5

FIBOX MNX PCM WITH METRIC KNOCK-OUTS

Amount of metric knock-outs in FIBOX MNX PCM:

		KNOCK-OUT OPENINGS Long side	KNOCK-OUT OPENINGS Short side
Y X X	ORDER SYMBOL	Number of openings x metric size	Number of openings x metric size
130 x 80	PCM 100	2 x M32/M20	1 x M25/M16
130 x 130	PCM 125	2 x M32/M20	2 x M25/M16
180 x 130	PCM 150	3 x M25/M16	2 x M32/M20
180 x 180	PCM 175	3 x M32/M20	3 x M25/M16
255 x 180	PCM 200	3 x M25/M16 x M32/M20	3 x M32/M20
255 x 180	PCM 200X	8 x M20, 1 x /M50/M32	2 x M32/M20, 1 x M20

For more information, please see next page.

FIBOX MNX PCM WITH METRIC KNOCK-OUTS

FIBOX MNX POLYCARBONATE			Including: Enclosure cover v screws, base with mounting	with cover screws and wing heads for cover g plate screws and gasket.	ВХА
PC: IP 66/67 and IP 66, IK 08	Z	С	ORDER SYMBOL	ORDER SYMBOL	L X S
	mm	mm	Grey cover	Smoked transparent cover	mm
PCM 100 Y X X 130 mm 80 mm	60 100 125	44.5 86.3 111.3	PCM 100/60 G PCM 100/100 G PCM 100/125 G	PCM 100/60 T PCM 100/100 T PCM 100/125 T	B x A 90 x 40 L x S 113.5 x 63.5
PCM 125 Y X X 130 mm 130 mm	60 75 100 125	44.4 61.0 86.2 111.3	PCM 125/60 G PCM 125/75 G PCM 125/100 G PCM 125/125 G	PCM 125/60 T PCM 125/75 T PCM 125/100 T PCM 125/125 T	B x A 90 x 90 L x S 113.5 x 113.5
PCM 150 Y x X 180 mm 130 mm	60 75 100 125	44.0 61.3 86.3 111.3	PCM 150/60 G PCM 150/75 G PCM 150/100 G PCM 150/125 G	PCM 150/60 T PCM 150/75 T PCM 150/100 T PCM 150/125 T	B x A 140 x 90 L x S 163.5 x 113.5
PCM 175 Y X X 180 mm 180 mm	60 100	44.0 86.3	PCM 175/60 G PCM 175/100 G	PCM 175/60 T PCM 175/100 T	B x A 140 x 140 L x S 163.5 x 163.5
PCM 200 Y X X 255 mm 180 mm	60 75 100 150	44.0 61.2 86.3 135.9	PCM 200/60 G PCM 200/75 G PCM 200/100 G PCM 200/150 G	PCM 200/60 T PCM 200/75 T PCM 200/100 T PCM 200/150 T	B x A 215 x 140
PCM 200 X	85 100 125 175	69.6 86.8 111.9 161.5	PCM 200/85 XG PCM 200/100 XG PCM 200/125 XG PCM 200/175 XG	PCM 200/85 XT PCM 200/100 XT PCM 200/125 XT PCM 200/175 XT	L x S 238.5 x 163.5





















FIBOX MNX ABS

FIBOX MNX ABS			Including: Enclosure co cover screws, base with	over with cover screws and wing heads for h mounting plate screws and gasket.	ВХА
ABS: IP 66/67 and IP 66, IK 07	Z	С	ORDER SYMBOL	ORDER SYMBOL	L X S
	mm	mm	Grey cover	Smoked transparent cover	mm
ABS 100 L Y X X 130 mm 80 mm	35 75 100	24.1 65.9 90.9	ABS 100/35 LG ABS 100/75 LG ABS 100/100 LG	ABS 100/35 LT ABS 100/75 LT ABS 100/100 LT	B x A 90 x 40 L x S
ABS 100 H	60	44.5	ARC 100/00 HC	ADC 100/C0 LIT	113.5 x 63.5 B x A
Y X X 130 mm 80 mm	100 125	86.3 111.3	ABS 100/60 HG ABS 100/100 HG ABS 100/125 HG	ABS 100/60 HT ABS 100/100 HT ABS 100/125 HT	90 x 40 L x S
					113.5 x 63.5
ABS 125 L Y X X	35 50 75	24.0 40.9 65.9	ABS 125/35 LG ABS 125/50 LG ABS 125/75 LG	ABS 125/35 LT ABS 125/50 LT ABS 125/75 LT	B x A 90 x 90 L x S
130 mm 130 mm	100	90.9	ABS 125/100 LG	ABS 125/100 LT	113.5 x 113.5
ABS 125 H Y X X	60 75 100	44.4 61.0 86.2	ABS 125/75 HG	ABS 125/60 HT ABS 125/75 HT ABS 125/100 HT	B x A 90 x 90
130 mm 130 mm	125	111.3	ABS 125/125 HG	ABS 125/125 HT	L x S 113.5 x 113.5
ABS 150 L	35 50	23.6 40.9	ABS 150/35 LG ABS 150/50 LG	ABS 150/35 LT ABS 150/50 LT	B x A 140 x 90
180 mm 130 mm	75 100	65.9 90.9	ABS 150/75 LG ABS 150/100 LG	ABS 150/75 LT ABS 150/100 LT	L x S 163.5 x 113.5
ABS 150 H	60 75	44.0 61.3	1	ABS 150/60 HT ABS 150/75 HT	B x A 140 x 90
180 mm 130 mm	100 125	86.3 111.3		ABS 150/100 HT ABS 150/125 HT	L x S 163.5 x 113.5
ABS 175 H	60 100	44.0 86.3	ABS 175/60 HG ABS 175/100 HG	ABS 175/60 HT ABS 175/100 HT	B x A 140 x 140
Y X X 180 mm 180 mm					L x S 163.5 x 163.5
ABS 200 H	60 75	44.0 61.2 86.3	ABS 200/60 HG ABS 200/75 HG ABS 200/100 HG	ABS 200/60 HT ABS 200/75 HT	B x A 250 x 140
Y X X 255 mm 180 mm	100 150 85	135.9 69.6	ABS 200/150 HG ABS 200/85 XHG	ABS 200/100 HT ABS 200/150 HT ABS 200/85 XHT	LxS
ABS 200 XH	100 125 175	86.8 111.9 161.5	ABS 200/100 XHG ABS 200/125 XHG ABS 200/175 XHG	ABS 200/100 XHT ABS 200/125 XHT ABS 200/175 XHT	238.5 x 163.5
External Neight Y External External External depth Z	Fre mounti	e internal ng height	Mounting plate assembly	X A Wall L X S	

















FIBOX MNX PC/ABS

TECHNICAL INFORMATION

PROPERTY	POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection	IP66/IP 67 and IP66	IP66/67 and IP66	USA Enclosures for Electrical Equipment
(EN 60529)			PC: UL Type 1, 4, 4X, 6 (12 and 13) (UL 50/508)
Impact Resistance	IK 08	IK 07	ABS: NEMA 1, 4, 4X, 6 (12 and 13) Canada Industrial Control Equipment
(EN 50102)	IK UO	IK U/	Enclosures for Electrical Equipment/ULc
Temperature Range Celsius	-40°120°C	-40°80°C	Europe Enclosures for Switch Gear and Control Gear Assemblies
(short term) Fahrenheit	-40°250°F	-40°175°F	EN 50298:1998
Temperature Range Celsius	-40°80°C	-40°60°C	Europe Safety of Information Technology Equipment
(continuous) Fahrenheit	-40°175°F	-40°140°F	EN 60950
Electrical Insulation	Totally insulated	Totally insulated	Australia Enclosures for switch gear and control gear
	_	_	AS 3132-1991
Light Grey Parts Colour	RAL 7035	RAL 7035	
	Industry Grey	Industry Grey	
Transparent Clear PC Cover	Smoked Grey	Smoked Grey	
Cover Screws	Black or Grey	Black or Grey	
Cover Screws	Polyamide (PA)	Polyamide (PA)	
Gasket	PUR/TPE	PUR/TPE	
Enclosure Flammability Rating	UL94-5V	UL94HB	UL 746 C 5 in. vertical flame test
Glow Wire Test	960°C	650°C	IEC 695-2-1, Self-extinguishing
Non-toxicity	Halogen Free	Halogen Free	
UV resistance	UL 508		
	720 hours in "Weatherometer"		
Chemical Resistance *	Good	Good	

Data subject to change without notice. *Consult separate raw material data for more detailed information

ACCESSORIES

Product	Order symbol	Size mm	
MNX front plate	FP A 100/130 FP A 125/130 FP A 150/180 FP A 175/180 FP A 200/180	120 x 62 120 x 112 170 x 112 170 x 162 237 x 170	
MNX front plate hinge series, 2 pcs	HFP 130 HFP 180	130 180	
incl. screws			
Mounting plate	MIV 100 MIV 125 MIV 150 MIV 175 MIV 200	98 x 48 98 x 98 148 x 98 148 x 148 223 x 148	
Mounting rail DIN 35	MIV 5 MIV 10 MIV 15 MIV 20	53 x 50 35 x 100 35 x 150 35 x 225	
Mounting rail DIN 15	MIN 5 MIN 10 MIN 15 MIN 20	15 x 50 15 x 100 15x 150 15 x 225	
Mounting foot kit, 4 pcs. incl. screws	FP 22046		
Inspection windows	L02 L04 L06 L08 L10	66 x 77 96 x 77 130 x 77 163 x 77 200 x 77	

Product	Order symbol	Size mm	
Plastic hinges (2 pcs)	ТН А		
MNX sealing plug, grey	DP 14553		
MNX sealing plug, black	DP 14553B		
Water plug	MB 12189		
Cover plug	MB 14560		
Ventilation device	MB 10631		
Cover screws	SS 14550L		
	SS 14551H		
	SS 14550BL SS 14551BH		
Wing heads for cover screws _			
	MB 14552		
	MB 14552B		
Mounting plate screws			
	MR ZN 2.9x6.5	2.9 x 6.5	
	KN 3.9x9.5	3.9 x 9.5	

FIBOX MNX

POLYCARBONATE AND ABS ENCLOSURE

MULTI PURPOSE MOUNTING PODS

The 50 mm (H) base features 3 levels for component mounting. The highest level provides component clearance under the Printed Circuit Board. The middle level is ideal for DIN rail mounting. The lowest level

Please ask for Fibox mounting and machining service of terminal blocks and cable glands.

VERSATILE COVERS

Grey opaque or smoked transparent polycarbonate covers provide a stylish finish to any installed equipment. Tooling may be cost effectively changed to customise covers for volume OEM applications.

FIBOX MNX PCM Enclosure features metric knock-outs

moulded in place

for easy wiring.

FUNCTIONAL COVER SCREWS

The enclosure is supplied with corrosion free plastic cover screws. A wing head screw can be snapped in place for opening without tools. Grey covers are supplied with grey screws. Smoked transparent covers are supplied with black screws

HINGED INNER PANEL

For instrumentation mounting, aluminum inner panels can be hinged right or left. Unique brackets allow mounting in either base or cover. The brackets permit mounting at variable depths.

RUGGED HINGE An optional corrosion free hinge is available. Mounted on the outside, attaching hardware is hidden by decorative covers.

MEMBRANE KEY-BOARD RECESS

The cover features a slightly recessed area ideal for overlays and membrane key pads. Special cover available for size 175/60, see page 9.

FIBOX CUSTOMIZING SERVICES



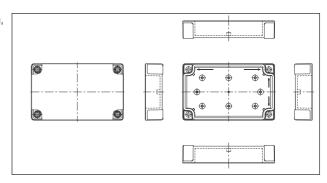
FIBOX MACHINING SERVICES

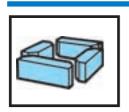
To increase the range and flexibility of our enclosure solutions, Fibox has developed a comprehensive range of services, permitting cost effective customisation for specific applications. The two most important of these are machining services and customised tooling.

Our sophisticated CNC machinery can supply enclosures with holes, cutouts and openings to your specification. This solution is best suited for small to medium volumes of enclosures. Fibox knowledge of enclosure materials ensures that he machining method is compatible with the chosen enclosure material.



Prior to machining a production run, Fibox requires customer approved drawings. Either the customer or Fibox can create these drawings. Enclosure specifications and technical data are available on our latest CD-ROM or on the WEB WWW.FIBOX.COM. CAD support drawings are available in IGES, DWG and DXF formats adaptable to your design system requirements.

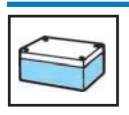




CUSTOMISED TOOLING

For large volume OEM requirements, it is often possible to customise the moulding of a standard product to meet the OEM's specific needs. Provided the mould is a sophisticated multiple slide mould, any enclosure side may be customised without requiring an entirely new mould. It is important that the OEM consult with Fibox early in his design process to determine what, if any, mould change restrictions exist.

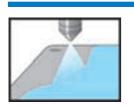
Altering an existing Fibox mould can be a very cost effective alternative to creating a custom mould. In essence, you lease a high volume, standard product mould with minimal initial tooling cost. This can shorten product development times and permit customising even those products with projected short life cycles. Your new product reaches the market sooner.



COLOURED PLASTIC ENCLOSURES

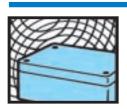
Fibox offers custom moulding of standard enclosures in customer specified colours. Standard colour specifications are based upon the RAL system, however custom colour matching is possible. The type of plastic has significant impact on colour match, colour consistency and cost. Please consult the factory for quidance.

Custom colour molding becomes economical in volumes over 1000 pieces, but lower volumes are possible. Cost adders are based upon increased raw material costs, plus the cost to prepare moulds prior to production and then clean the moulds after production. These mould preparation costs are highly volume dependent.



PAINTED ENCLOSURES

Painting enclosures is recommended for plastic enclosures when volumes do not justify custom moulding. Critical colour matching, if required, is also easier to accomplish with paint. Paint type is dependent upon the choice of enclosure material. Please consult the factory for guidance.



EMC - PLASTIC ENCLOSURES

Plastic enclosures can be prepared to provide EMC shielding. Various methods are available, but painting the internal surface with Ni conductive paint is the preferred method. This coating, combined with a conductive gasket material such as CHO-SEAL 1350, can provide significant shielding levels. Proper selection of materials is very application specific. Please consult the factory for guidance.



PRINTED ENCLOSURES

Silk screen printing is recommended for enclosure batches of less than 1000 pieces. This method is mainly suitable for flat surfaces, and can be used for large areas.

Tampo printing is the best solution for volumes greater than 1000 pieces. It is suitable for printing on both flat and curved surfaces of limited size. Tampo printing is also ideal for tight spots like the inside surface of the enclosure.