

ENCLOSURE CATALOGUE

Version 3.5 GB





www.fibox.com	FIBOX COMPANY PRESENTATIONFIBOX IS ON THE WEB FOR YOU	3
	QUALITYCUSTOMISING	
	OGOT OWNOTIVE	0
	SMALL TO MEDIUM SIZE ENCLOSURES	
	PC / ABS 52 x 50 x 40 mm - 300 x 230 x 110 mm	
FIBOX MNX	P / AL 50 x 45 x 31,5 mm - 600 x 310 x 180 mm	
	FIBOX MNX PC / F / PCM / ABS	7-14
(Table	FIBOX PICCOLO PC / ABS	15-18
	FIBOX EURONORD PC / ABS / ALUMINIUM / POLYESTER	19-28
FIBOX EURONORD	MODULAR COMPONENT ENCLOSURES	
	200 x 116 x 105 mm – 580 x 306 x 145 mm	
	FIBOX MCE CONTROL / FEM / ISO	29-38
	TIBOX NICE CONTINCE / TENT/ ICC	20 00
FIBOX MCE	MEDIUM TO LARGE SIZE ENCLOSURES	
FIBOX MCE	MEDIUM TO LARGE SIZE ENCLOSURES 190 x 190 x 130 mm - 760 x 560 x 250 mm	
FIBOX MCE	190 x 190 x 130 mm – 760 x 560 x 250 mm	39-44
FIBOX MCE	190 x 190 x 130 mm - 760 x 560 x 250 mm FIBOX SOLID PC / ABS / SM / HINGED COVER	
FIBOX MCE	190 x 190 x 130 mm – 760 x 560 x 250 mm	
FIBOX SOLID	190 x 190 x 130 mm - 760 x 560 x 250 mm FIBOX SOLID PC / ABS / SM / HINGED COVER	45-54
	190 x 190 x 130 mm - 760 x 560 x 250 mm FIBOX SOLID PC / ABS / SM / HINGED COVER FIBOX EK FIBOX CAB PC/ABS hinged door with key lock	45-54 55-59
	190 x 190 x 130 mm – 760 x 560 x 250 mm FIBOX SOLID PC / ABS / SM / HINGED COVER FIBOX EK FIBOX CAB PC/ABS hinged door with key lock FIBOX CAB PC/ABS hinged door with latches	45-54 55-59 55-59
	190 x 190 x 130 mm - 760 x 560 x 250 mm FIBOX SOLID PC / ABS / SM / HINGED COVER FIBOX CAB PC/ABS hinged door with key lock FIBOX CAB PC/ABS hinged door with latches FIBOX QUICK with quick turn screw cover	45-54 55-59 55-59 60-61
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FIBOX COMPANY PRESENTATION

Fibox enclosures are manufactured in modern factories located in the Helsinki, Finland metropolitan area and in Inchon, the Republic of Korea.

35 YEARS EXPERIENCE IN THERMOPLASTIC ENCLOSURES

In 1966, FIBOX introduced the first modular enclosures moulded from polycarbonate plastic. These enclosures began a new era in electrical panel building. From the beginning, a commitment to continuous product improvement and an on going product development has fuelled a dramatic and rapid growth for the company.

FIBOX, a privately-owned Finnish company, is one of the largest enclosure manufactures in the world, and is the market leader in thermoplastic enclosures used for protecting electrical and electronic components operating in hostile environments.

Whatever your application, the FIBOX enclosure family features the widest range of high quality enclosures for the packaging and protection of electrical and electronic components and systems. Enclosures can be delivered in standard off the shelf configurations or customised to your exact specifications. Fibox Oy Ab earned the ISO 9001:2000 Quality Certification for all its operations in 1992.

Fibox voluntarily submits its products for third party testing and evaluation, and currently has many third party listings including, UL, CSA, KEMA, FIMKO, DNV, LR, etc. The company enclosures are rated EN 60529 even up to IP 68. In addition, nearly all products are rated for use in hazardous areas.

CONTINUOUS PRODUCT DEVELOPMENT

The FIBOX enclosure range features over 500 different standard enclosures made of polycarbonate, ABS, polyester fibre-glass and aluminium. Fibox is the industry leader in developing both new products and new technologies for moulding thermoplastic enclosures. At Fibox, we consider moulding technology an essential part of product development.

For example, the new FIBOX MNX enclosure is the first to utilise direct injection of the enclosure gasket material during the body moulding process. This new process ensures precision moulding of the gasket guaranteeing superior enclosure protection ratings. Fibox is the only manufacturer applying this technology to enclosures.

Another example is FIBOX's emphasis on multiple slide technology for mould construction. While much more costly, this type of mould provides our OEM customers cost effective alternatives for modifying standard enclosures to meet their specific needs.

But more important than technical leadership, is the FIBOX commitment to understanding the needs of its customers. All our products are designed in close cooperation with our customers. We use input from our global customer base to produce new enclosure ranges, useful accessories and on-going product improvements and enhancements.

MORE INFORMATION e-mail: info@fibox.fi

www.fibox.com

FIBOX's policy is to continually improve its products.

Specifications in this Enclosure Catalogue are subject to change without notice.

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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 **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 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 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 **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! Contact us via **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 PICCOLO

FIBOX

FIBOX MCE CONTROL

FIBOX MCE FEM

FIBOX MCE ISO

FIBOX

FIBEX

FIBOX

FIBOXICK

FIBOX SPACE LINK

FIBOX

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 9001:2000.



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)
 - 3: 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 European standard for empty enclosures, EN 50298:98 includes the IK impact test. This test is described in EN 50102, and as Fibox enclosures are tested to EN 50298:98, the data for impact resistance are available as well.

FIRST NUMBER Protection against solid objects		SECOND NUMBER Protection against liquid	S	IK CODE Protection against mechanical impacts		
ΙP		TEST	IP	TEST	IK	TEST
0	1 × 1	no protection	0 (5)	no protection	00	no protection
1	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		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	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 g	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	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
				protected against the affects of immersion between 15 cm and 1 m.	_	
			8	protected against long periods of immersion under pressure.	10 6 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.

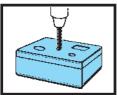
Our sophisticated CNC machinery can supply enclosures with holes, cutouts and openings to your specification. This solution is best suited for small to medium volumes of enclosures.

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.

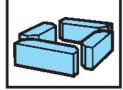
The www.fibox.com web site provides you the fastest route for choosing Fibox enclosures and accessories. Our interactive program guides you to the correct enclosure and accessories for your application. Technical data and drawing files (DWG, IGS, and DXF) allow the engineer to design and customise quickly.

See also page 14.

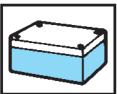
Fibox can customise your enclosures making them completely ready for your application.



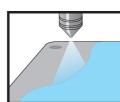
Machining services



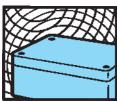
Customised tooling



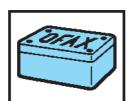
Coloured enclosures



Painted enclosures



EMC shielding



Printed enclosures







FIBOX









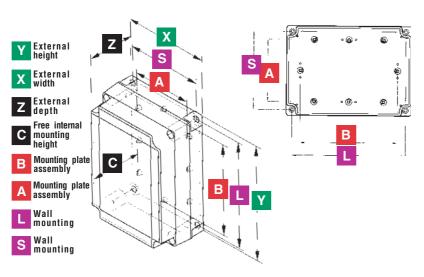
The FIBOX MNX range of enclosures represents the culmination of 35 years experience in enclosure design and manufacture. Unique tooling defines a new "State of the Art" for injection moulding. The FIBOX MNX polycarbonate and ABS range has been designed to house and protect electrical and electronic components in hostile environments. Three body depths, and up to 4 cover choices per body size, create over 240 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".

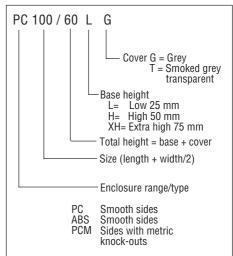
FIBOX MNX PC

FIBOX MNX POLYCARBONATE			Including: Enclosure cover v screws, base with mounting	with cover screws and wing heads for cover 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
PC 95 L / PC 95 H	35	28.8	PC 95/35 LG	PC 95/35 LT	B x A
Y X X	50	45.6	PC 95/50 LG	PC 95/50 LT	70 x 45
100	60	53.8	PC 95/60 HG	PC 95/60 HT	LxS
100 mm 100 mm	75	70.6	PC 95/75 HG	PC 95/75 HT	83.5 x 83.5
PC 100 L	35	24.1	PC 100/35 LG	PC 100/35 LT	B x A 90 x 40
YXX	50	41.0	PC 100/50 LG	PC 100/50 LT	30 % 40
130 mm 80 mm	75 100	61.0	PC 100/75 LG PC 100/100 LG	PC 100/75 LT PC 100/100 LT	LxS
130 11111 00 11111	100	90.9	PG 100/100 LG	PC 100/100 L1	113.5 x 63.5
PC 100 H	60	44.5	PC 100/60 HG	PC 100/60 HT	BxA
Y X X	75	1	PC 100/75 HG	PC 100/75 HT	90 x 40
130 mm 80 mm	100	1	PC 100/100 HG	PC 100/100 HT	LxS
130 11111 00 111111	125	111.3	PC 100/125 HG	PC 100/125 HT	113.5 x 63.5
PC 125 L	35	24.0	PC 125/35 LG	PC 125/35 LT	BxA
YXX	50	40.9	PC 125/50 LG	PC 125/50 LT	90 x 90
130 mm 130 mm	75	65.9	PC 125/75 LG	PC 125/75 LT	LxS
130 11111 130 111111	100	90.9	PC 125/100 LG	PC 125/100 LT	113.5 x 113.5
PC 125 H	60	11.1	PC 125/60 HG	PC 125/60 HT	BxA
Y X X	75	1	PC 125/75 HG	PC 125/75 HT	90 x 90
	100	1	PC 125/100 HG	PC 125/100 HT	
130 mm 130 mm	125	111.3		PC 125/125 HT	L x S 113.5 x 113.5
PC 150 L	0.5	00.0	D0 450/05 L0	DO 450/05 LT	
	35 50	1	PC 150/35 LG PC 150/50 LG	PC 150/35 LT PC 150/50 LT	BxA
YXX	75	1	PC 150/50 LG	PC 150/50 LT PC 150/75 LT	140 x 90
180 mm 130 mm	100	1	PC 150/100 LG	PC 150/100 LT	LxS
	125	1	PC 150/125 LG	PC 150/125 LT	163.5 x 113.5
DO (50)	60	44.0	PC 150/60 HG	PC 150/60 HT	
PC 150 H	75	1	PC 150/75 HG	PC 150/75 HT	BxA
YXX	100	86.3	PC 150/100 HG	PC 150/100 HT	140 x 90
180 mm 130 mm	125	1	PC 150/125 HG	PC 150/125 HT	LxS
	150	135,9	PC 150/150 HG	PC 150/150 HT	163.5 x 113.5
PC 175 H	60	44.0	PC 175/60 HG	PC 175/60 HT	B×A
Y X X	75	1	PC 175/75 HG	PC 175/75 HT	140 x 140
180 mm 180 mm	100	1	PC 175/100 HG	PC175/100 HT	140 / 140
100 mm	125	1	PC 175/125 HG	PC 175/125 HT	LxS
	150	135.9	PC 175/150 HG	PC 175/150 HT	163.5 x 163.5
PC 200 H	63	1	PC 200/63 HG	PC 200/63 HT	BxA
	75	1	PC 200/75 HG	PC 200/75 HT	215 x 140
YXX	100 150	1	PC 200/100 HG PC 200/150 HG	PC 200/100 HT PC 200/150 HT	
255 mm 180 mm	88		PC 200/130 HG	PC 200/130 HT	LxS
PC 200 XH	100		PC 200/100 XHG	PC 200/100 XHT	238.5 x 163.5
	125	111.9	PC 200/125 XHG	PC 200/125 XHT	
	175	161.5	PC 200/175 XHG	PC 200/175 XHT	

FIBOX MNX PC



SYMBOLS AND ABBREVIATIONS



FIBOX MNX F COVER FOR MEMBRANE KEYBOARDS

Please order separately: cover II 150/10 GF or II 175/10 GF, appropriate enclosure base (see chart below) and cover screw set. For 150L bases use MBS LL -screw set and for 150H and 175H bases MBS LH set. Screw sets include 4 x grey cover screws, 4 x grey wing heads and 4 x mounting plate screws.



		0 ,		0 , 0	· .	
Y X X	Z	C	ORDER SYMBOL/ Base	PRODUCT		B X A L X S
180 x 130	35	23,6	PC 150L	PC low base		140 x 90
			A 150L	Low ABS base		163.5 x 113.5
180 x 130	60	44.0	PC 150H	PC base		140 x 90
		,-	PCM 150	PC base with metric knock-outs		163.5 x 113.5
			A 150H	ABS base		
180 x 180	60	44,0	PC 175H	PC base		140 x 140
			PCM 175	PC base with metric knock-outs		163.5 x 163.5
			A 175H	ABS base		

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
100 x 100	PCM 95	2 x M20	-
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 + 2 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 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 95 Y X X 100 mm 100 mm	60 75	53.8 70.6	PCM 95/60 G PCM 95/75 G	PCM 95/60 T PCM 95/75 T	B x A 70 x 45 L x S 83.5 x 83.5
PCM 100 Y X X 130 mm 80 mm	60 75 100 125	44.5 61.0 86.3 111.3	PCM 100/60 G PCM 100/75 G PCM 100/100 G PCM 100/125 G	PCM 100/60 T PCM 100/75 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 75 100 125 150	44.0 61.0 86.3 111.3 135.9	PCM 150/60 G PCM 150/75 G PCM 150/100 G PCM 150/125 G PCM 150/150 G	PCM 150/60 T PCM 150/75 T PCM 150/100 T PCM 150/125 T PCM 150/150 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 75 100 125 150	61.0 86.3 111.3	PCM 175/60 G PCM 175/75 G PCM 175/100 G PCM 175/125 G PCM 175/150 G	PCM 175/60 T PCM 175/75 T PCM 175/100 T PCM 175/125 T PCM 175/150 T	B x A 140 x 140 L x S 163.5 x 163.5
PCM 200 Y X X 255 mm 180 mm	63 75 100 150	61.2 86.3	PCM 200/63 G PCM 200/75 G PCM 200/100 G PCM 200/150 G	PCM 200/63 T PCM 200/75 T PCM 200/100 T PCM 200/150 T	B x A 215 x 140
PCM 200 X Y X X 255 mm 180 mm	88 100 125 175	86.8 111.9	PCM 200/88 XG PCM 200/100 XG PCM 200/125 XG PCM 200/175 XG	PCM 200/88 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 c cover screws, base wi	over with cover screws and wing heads for th 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 95 L / ABS 95 H Y X X 100 mm 100 mm	35 50 60 75	28.8 45.6 53.8 70.6	ABS 95/35 LG ABS 95/50 LG ABS 95/60 HG ABS 95/75 HG	ABS 95/35 LT ABS 95/50 LT ABS 95/60 HT ABS 95/75 HT	B x A 70 x 45 L x S 83.5 x 83.5
ABS 100 L Y X X 130 mm 80 mm	35 50 75 100	24.1 41.0 61.0 90.9	ABS 100/35 LG ABS 100/50 LG ABS 100/75 LG ABS 100/100 LG	ABS 100/35 LT ABS 100/50 LT ABS 100/75 LT ABS 100/100 LT	B x A 90 x 40 L x S 113.5 x 63.5
ABS 100 H Y X X 130 mm 80 mm	60 75 100 125	61.0 86.3	PC 100/60 HG PC 100/75 HG PC 100/100 HG PC 100/125 HG	ABS 100/60 HT ABS 100/75 HT ABS 100/100 HT ABS 100/125 HT	B x A 90 x 40 L x S 113.5 x 63.5
ABS 125 L Y X X 130 mm 130 mm	35 50 75 100	24.0 40.9 65.9 90.9	ABS 125/35 LG ABS 125/50 LG ABS 125/75 LG ABS 125/100 LG	ABS 125/35 LT ABS 125/50 LT ABS 125/75 LT ABS 125/100 LT	B x A 90 x 90 L x S 113.5 x 113.5
ABS 125 H Y X X 130 mm 130 mm	60 75 100 125	61.0	ABS 125/60 HG ABS 125/75 HG ABS 125/100 HG ABS 125/125 HG	ABS 125/60 HT ABS 125/75 HT ABS 125/100 HT ABS 125/125 HT	B x A 90 x 90 L x S 113.5 x 113.5
ABS 150 L Y X X 180 mm 130 mm	35 50 75 100 125	41.0 65.9 90.9	ABS 150/35 LG ABS 150/50 LG ABS 150/75 LG ABS 150/100 LG ABS 150/125 LG	ABS 150/35 LT ABS 150/50 LT ABS 150/75 LT ABS 150/100 LT ABS 150/125 LT	B x A 140 x 90 L x S 163.5 x 113.5
ABS 150 H Y X X 180 mm 130 mm	60 75 100 125 150	61.3 86.3 111.3	ABS 150/60 HG ABS 150/75 HG ABS 150/100 HG ABS 150/125 HG ABS 150/150 HG	ABS 150/60 HT ABS 150/75 HT ABS 150/100 HT ABS 150/125 HT ABS 150/150 HT	B x A 140 x 90 L x S 163.5 x 113.5
ABS 175 H Y X X 180 mm 180 mm	60 75 100 125 150	61.0 86.3 111.0	ABS 175/60 HG ABS 175/75 HG ABS 175/100 HG ABS 175/125 HG ABS 175/150 HG	ABS 175/60 HT ABS 175/75 HT ABS 175/100 HT ABS 175/125 HT ABS 175/150 HT	B x A 140 x 140 L x S 163.5 x 163.5
ABS 200 H Y X X 255 mm 180 mm ABS 200 XH	63 75 100 150 88 100 125	61.2 86.3 135.9 71.5 86.8	ABS 200/63 HG ABS 200/75 HG ABS 200/100 HG ABS 200/150 HG ABS 200/88 XHG ABS 200/100 XHG ABS 200/125 XHG	ABS 200/63 HT ABS 200/75 HT ABS 200/100 HT ABS 200/150 HT ABS 200/88 XHT ABS 200/100 XHT ABS 200/125 XHT	B x A 215 x 140 L x S 238.5 x 163.5
External V External V External 7	175	161.5	ABS 200/175 XHG Mounting plate	ABS 200/175 XHT	





External width X



External depth Z Free internal mounting height C











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 00	IK 07	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 95 MIV 100 MIV 125 MIV 150 MIV 175 MIV 200	66 x 80 98 x 48 98 x 98 148 x 98 148 x 148 223 x 148	
Mounting rail DIN 35	B-3 MIV 5 MIV 10 MIV 15 MIV 20	35 x 80 35 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	60 x 77 96 x 77 130 x 77 162 x 77 199 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 permits snap-in mounting of PCB's.

> Please ask for Fibox mounting and machining service for 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, fixing screws are 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 sizes 150 and 175, see page 9.

FIBOX CUSTOMIZING SERVICES



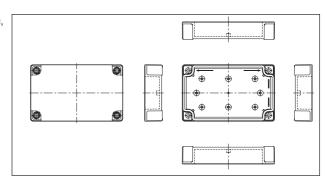
FIBOX MACHINING SERVICES

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.

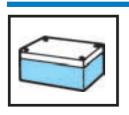




CUSTOMISED TOOLING

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 your 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.

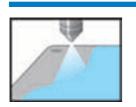


COLOURED PLASTIC ENCLOSURES

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.

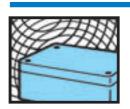
The type of plastic has significant impact on colour match, colour consistency and cost. Please consult your Fibox representative for guidance.

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 your Fibox representative 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 your Fibox representative 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.

FIEDX









The FIBOX PICCOLO range of enclosures is specifically designed for housing push buttons, terminal blocks, motor starters and electronic devices. They are also ideal for mounting and protecting process control sensors and switches. There are six basic sizes and a choice of two cover depths. Push Button configurations are available as standard. FIBOX PICCOLO is available in polycarbonate or ABS.

The enclosures are rated EN 60529 IP66/IP67.

FIBOX PICCOLO

FIBOX PICCOLO PC: IP66 / IP67, IK 08			Including: Enclosure bas mounting screws.	e, cover with PUR gasket, 4 cover screws, and	ВХА
ABS: IP66 / IP67, IK 07	Z	С	ORDER SYMBOL	ORDER SYMBOL	L X S
	mm	mm	Grey cover	Transparent cover	mm
PICCOLO B	65 85	52 72	PC B 65 G PC B 85 G	PC B 65 T PC B 85 T	B 75
110 mm 80 mm	65 85	52 72	ABS B 65 G ABS B 85 G	ABS B 65 T ABS B 85 T	L x S 90 x 60
PICCOLO C	65 85	52 72	PC C 65 G PC C 85 G	PC C 65 T PC C 85 T	B 105
140 mm 80 mm	65 85	52 72	ABS C 65 G ABS C 85 G	ABS C 65 T ABS C 85 T	L x S 120 x 60
PICCOLO D	65 85	52 72	PC D 65 G PC D 85 G	PC D 65 T PC D 85 T	B 135
170 mm 80 mm	65 85	52 72	ABS D 65 G ABS D 85 G	ABS D 65 T ABS D 85 T	L x S 150 x 60
PICCOLO F Y X X	65 85	52 72	PC F 65 G PC F 85 G	PC F 65 T PC F 85 T	B 195
230 mm 80 mm	65 85	52 72	ABS F 65 G ABS F 85 G	ABS F 65 T ABS F 85 T	L x S 210 x 60
PICCOLO H	95	81.7	PC H 95 G	PC H 95 T	B x A
Y X X 170 mm 140 mm	95	81.7	ABS H 95 G	ABS H 95 T	130 x 100
					L x S 152 x 122
PICCOLO M	95	81.7	PC M 95 G	PC M 95 T	BxA
Y X X 230 mm 140 mm	95	81.7	ABS M 95 G	ABS M 95 T	190 x 100
200 11111 140 11111	125	111.7	PC MH 125 G	PC MH 125 T	S x L 212 x 122
	125	111.7	ABS MH 125 G	ABS MH 125 T	
External height Y External width X External depth	mou	Free internanting heigh	Mounting plate assembly	X A Wall L X S	















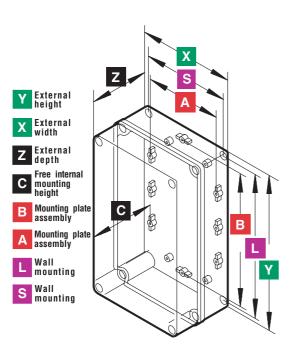




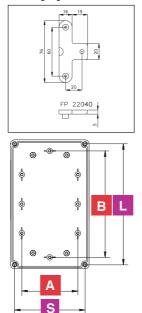




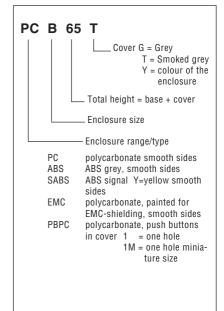
FIBOX PICCOLO



FP 22040 fastening lug measures



SYMBOLS AND ABBREVIATIONS



PICCOLO EMC, PICCOLO YELLOW AND PICCOLO PUSH BUTTONS

FIBOX PICCOLO EMC POLYCARBONATE ENCLOSURE **DIMENSIONS** inside the enclosure. ORDER SYMBOL mm EMC PC B 65 G 110 x 80 x 65 REMOVING EMC PC C 65 G 140 x 80 x 65 EMC PC D 65 G 170 x 80 x 65 PRODUCT EMC PC F 65 G 230 x 80 x 65 EMC PC H 95 G 170 x 140 x 95 EMC PC M 95 G 230 x 140 x 95 FIBOX PICCOLO BUSH BUTTON ENCLOSURES light grey colour. PBPC B 85 G 1 ø 30.5 MM 110 x 80 x 85 PBPC D 85 G 2 170 x 80 x 85 PBPC F 85 G 3 230 x 80 x 85 REMOVING PBPC H 95 G 4 170 x 140 x 95 PRODUCT PBPC M 95 G 6 230 x 140 x 95 PBPC B 85 G 1M ø 22.5 MM 110 x 80 x 85 PBPC C 85 G 2M 140 x 80 x 85 PBPC D 85 G 3M 170 x 80 x 85 PBPC F 85 G 4M 230 x 80 x 85 FIBOX PICCOLO SIGNAL ABS ENCLOSURE SABS B 65 Y 110 x 80 x 65 SABS C 65 Y REMOVING PRODUCT 140 x 80 x 65 SABS D 65 Y 170 x 80 x 65 SABS F 65 Y 230 x 80 x 65 SABS H 95 Y 170 x 140 x 95

230 x 140 x 95

Data subject to change without notice.

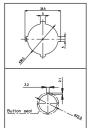
SABS M 95 Y

A standard PICCOLO EMC shielded plastic enclosure family for fulfilling the newest European regulations of electromagnetic compatibility. Five different standard sizes available ex stock with 40 to 60 db attenuation through reliable Ni-coating



Choose PICCOLO PB Polycarbonate enclosures to house 30.5 mm or 22.5 mm pushbuttons in corrosive environments. Piccolo PB enclosures feature high impact resistance, stylish design, and





Bright Yellow PICCOLO enclosure with black cover screws for places where visible safety is needed.



FIBOX PICCOLO

TECHNICAL INFORMATION

PROPERTY		POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection		IP66/IP67	IP66/67	USA Enclosures for Electrical Equipment
(EN 60529)				PC: UL Type 1, 4X, 6, 12 and 13 (UL 50/508)
· ·				ABS: NEMA 1, 4, 4X, 6, 12 and 13
Impact Resistance		IK 08	IK 07	Canada Industrial Control Equipment
(EN 50102)				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 Color	ur	RAL 7035	RAL 7035	
		Industry Grey	Industry Grey	
Transparent Clear PC	Cover	Clear Transparent	Clear Transparent	
Cover Screws		RAL 7035	RAL 7035	
Cover Screws		Polyamide (PA)	Polyamide (PA)	
Gasket		PUR	PUR	
Enclosure Flammabilit	ty 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 3	*	Good	Good	

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

ACCESSORIES

Product	Order symbol	Size mm	
Mounting plate	B-MP C-MP D-MP F-MP H-MP M-MP	80 x 54 110 x 54 140 x 54 200 x 54 125 x 94 185 x 94	
Mounting rail DIN 35	B-3 CHM-3 DH-3 FM-3	35 x 80 35 x 110 35 x 140 35 x 200	
Inspection windows	L02 L04 L06 L08 L10	60 x 77 96 x 77 130 x 77 162 x 77 199 x 77	
Ventilation device	MB 10631		
Hinges	TH A		
Hinges, 1 pair incl. screws	PA 22039		

Product	t	Order symbol	Size mm	
Mounting foot kit, 2 incl. scre	2 pcs	FP 22040		
-	7			
Mounting foot kit, 4 incl. scre	4 pcs	FP 22046		
	7			
Screw se	ets	MB S-20 KN MB S-40 KN MB S-20 BKN MB S-40 BKN		
Cover so	rews			
9	Grey	S-20 S-40	0.8 1.6	20 40
¥:)	Black	S-20B S-40B	0.8 1.6	20 40
Mountin screw	g	KN 3.9 x 9.5		
9	1			

CUSTOMISATION

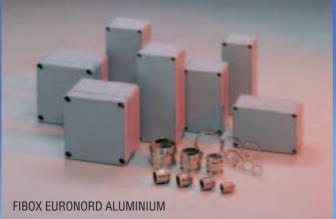
Enclosures can be machined, painted, screen printed and preassembled to meet your customisation requirements. Fibox's service centre offers complete CNC machining, hinge mounting, screen printing, assembly and much more. Our

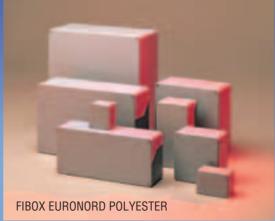
wide selection of enclosures and accessories can be customised to create a unique enclosure meeting your application requirements.



FERONORO







The FIBOX EURONORD range of enclosures is specifically designed for housing DIN-rail mounted terminal blocks.

Additionally, these enclosures are excellent for packaging sensors for process control applications.

FIBOX EURONORD enclosures are available moulded from polycarbonate,

ABS or polyester (GRP). FIBOX EURONORD enclosures are also available

in cast aluminium. The enclosures are rated EN 60529 IP 66/67.

FIBOX EURONORD II PC: IP66 / IP67, IK 08/IK 07 ABS: IP66 / IP67, IK 07	Z X C	GREY COVER AN TRANSPARENT C		PC: IP66	URONORD II / IP67, IK 08/IK 07 / IP67, IK 07	Z X C	GREY COVER TRANSPAREN ORDER	AND T COVER
	L X S	SYMBOL				L X S	SYMBOL	
050504 Y X X 52 mm 50 mm	Z/C 40 x 30 B 16.4 L x S 40 x 38	PC 050504 AB 050504		1212(Y X 122 mm		Z/C 65 x 54 B x A 98 x 83.5 L x S 110 x 90	PCT 121207 PC 121207 AB 121207	
050705 Y X X 65 mm 50 mm	Z/C 45 x 35 B 38 L x S 53 x 38	PCT 050705 PC 050705 AB 050705		1212° Y X 122 mm		Z/C 95 x 84 B x A 98 x 83.5 L x S 110 x 90	PCT 121210 PC 121210 AB 121210	
080807 Y X X 82 mm 80 mm	Z/C 65 x 53.5 B x A 58 x 43.5 L x S 70 x 50	PCT 080807 PC 080807 AB 080807		12160 Y X 160 mm		Z / C 90 x 78 B x A 90.5 x 120 L x S 148 x 88	PCT 121609 PC 121609 AB 121609	
081206 Y X X 120 mm 80 mm	Z/C 55 x 42 B x A 81.5 x 58.0 L x S 108 x 50	PCT 081206 PC 081206 AB 081206		12200 Y X 200 mm		Z / C 75 x 62 B x A 160.5 x 90.5 L x S 188 x 89	PCT 122008 PC 122008 AB 122008	
081607 Y X X 160 mm 80 mm	Z/C 65 x 54 B x A 121.5 x 58 L x S 148 x 50	PCT 081607 PC 081607 AB 081607		15200 Y X 201 mm	08 X 151 mm	Z/C 80 x 68.5 B x A 160 x 118 L x S 189 x 118	PCT 152008 PC 152008 AB 152008	
081610 Y X X 160 mm 80 mm	Z / C 95 x 84 B x A 121.5 x 58 L x S 148 x 50	PCT 081610 PC 081610 AB 081610	Mounting plate	16250 Y X 250 mm	X 160 mm	Z / C 90 x 78 B x A 201.5 x 138.5 L x S 238 x 130	PCT 162509 PC 162509 AB 162509	

External depth Z Free internal mounting height C

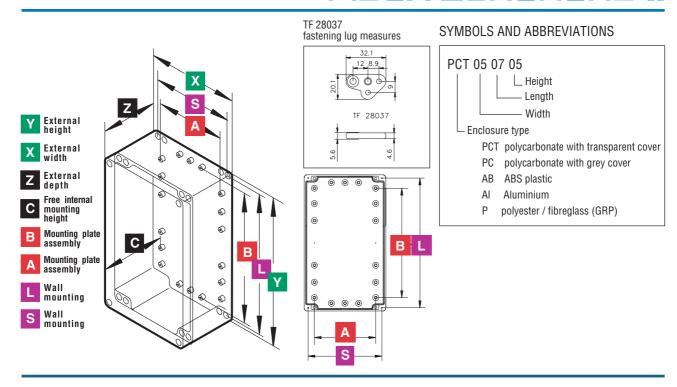
Mounting plate assembly B X A







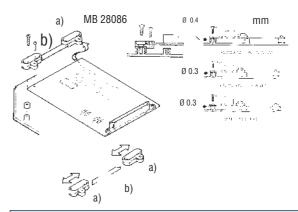




FIBOX EURONORD II PC: IP66 / IP67, IK 08/IK 07 ABS: IP66 / IP67, IK 07	Z X C	GREY COVER AND TRANSPARENT COVER		
	L X S	ORDER SYMBOL		
162513 Y X X 250 mm 160 mm	Z/C 125 x 113 B x A 201.5 x 138.5 L x S 238 x 130	PCT 162513 PC 162513 AB 162513		
233009 Y X X 300 mm 230 mm	Z / C 87 x 75 B x A 255 x 198 L x S 288 x 200	PCT 233009 PC 233009 AB 233009		
233011 Y X X 300 mm 230 mm	Z/C 110 x 98 B x A 255 x 198 L x S 288 x 200	PCT 233011 PC 233011 AB 233011		

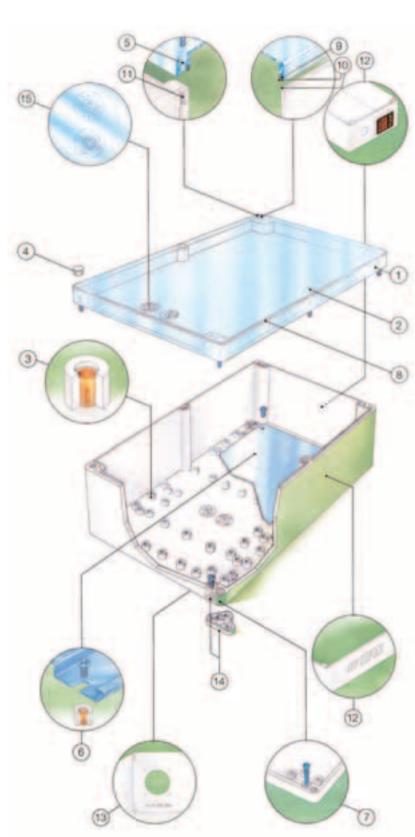
CIRCUIT BOARD BRACKET

Printed circuit boards and mounting plates often need special mounting supports that offer flexibility in positioning the boards across the enclosure body. Mounting supports also raise the board above the enclosure bottom, especially effective when using two sided boards. This circuit board bracket has a standard E1 (IEC 297-3, DIN 41494) Eurocard screw mounting distance of 89 mm (3.5") accepting M2,5 to M4 screws. The bracket can also be used for nonstandard boards by separating the ends of the bracket (a) from the connector bridge (b). If the bracket is not needed, the adapter parts for each individual mounting pod size can be used only for raising the board above the enclosure body level.



CIRCUIT BOARD BRACKET				
ORDER SYMBOL Standard Mounting Distance Remarks				
MB 28086	89 mm	Adapter for EURONORD, PICCOLO, MINI. Direct mount to EK, SOLID, EKI.		

POLYCARBONATE AND ABS ENCLOSURES



- Enclosure covers are moulded with state of the art technology. Depending upon size, covers are injection moulded from the edge or the inside surface. The outer surface is free of "gate marks" creating a smooth area for labels, decals or screen printing.
- Cover screws are designed for automatic assembly using normal tools or PosiDrive Phillips screwdrivers. Slightly ferrite, F1stainless screws work with magnetised drivers. Screws fully tighten in 4 revolutions.
- Fibox Euronorm II enclosures feature more mounting points than the competitors' products. F1 style screws are provided for mounting inner panels and Din rails. Enclosures feature low height mounting pods, thus maximising internal usable depth. Brass M3 inserts are also available.
- Decorative cover plugs create a smooth finished appearance.
- 5. Cover screws are held captive, but are still removable.
- 6. Assorted mounting plates and Din rails are available.
- Enclosures can be wall mounted through the base holes.
 This reduces both mounting area and possible vandalism. Mounting holes are outside the gasket area maintaining water tight protection.
- 8. The Euronorm II features a slightly bevelled edge design creating a modern look.
- Robotically applied, foamed in place PUR gaskets are moulded into the unique designed gasket groove. The tight adhesion and low compression set of PUR gasket material ensures protection ratings of NEMA 4 and IP 66/67.
- An extension strip structure reinforces the inner gasket groove edge, protecting against side impact.
- Special injection moulded plastic threads allow the cover screws to fasten quickly, while preventing sticking and corrosion.
- 12. The enclosure sides have space for mounting switches, sensors, or cable glands. Smooth sides allow decals or screen printing of logos. Fibox can customise enclosures with cut-outs, drilled or machined holes, and knock-out openings to the customers specifications.
- 13. Customisation of the back and sides of the enclosure can be supplied by Fibox.
- 14. Optional wall mounting brackets (feet) allow 4 external mounting points for hanging the enclosure, even when the cover is in place.
- 15. Fibox is an ISO 9001 manufacturer. Each enclosure part (cover and base) bears a code number, indication of manufacturing date and type of plastic, i.e. PC, ABS, etc. These indications are moulded into the part for quality control purposes and for compliance with European recycling regulations.

TECHNICAL INFORMATION FOR EURONORD PC AND ABS

PROPERTY		POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection		IP66/IP67	IP66/67	USA Enclosures for Electrical Equipment
(EN 60529)				PC: UL Type 1, 4, 4X, 12 and 13 (UL 50/508)
				ABS: NEMA 1, 4, 4X, 12 and 13
Impact Resistance		IK 08/IK 07	IK 07	Canada Industrial Control Equipment
(EN 50102)				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 Colou	ır	RAL 7035	RAL 7035	
		Industry Grey	Industry Grey	
Transparent Clear PC (Cover	Clear Transparent	Clear Transparent	
Cover Screws		Stainless steel	Stainless steel	
Gasket		PUR	PUR	
Enclosure Flammability	y 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 FOR EURONORD PC AND ABS

Product	Order symbol	Size mm	
Mounting plate	TM 0505 TM 0507 TM 0808 TM 0812 TM 0816 TM 1212 TM 1216 TM 1220 TM 1520 TM 1625 TM 2330	26 x 48 26 x 57 56 x 71 71 x 94 71 x 134 96 x 111 111 x 134 111 x 174 141 x 174 151 x 214 221 x 274	
Mounting rail DIN 15	TRM 0507 TRM 0808 TRM 0812 TRM 0816 TRM 1212	15 x 48 15 x 68 15 x 106 15 x 146 15 x 110	
Mounting rail DIN 35	TRH 1212 TRH 1216 TRH 1220 TRH 1520 TRH 24 TRH 2330	35 x 110 35 x 146 35 x 186 35 x 170 35 x 226 35 x 285	
Plastic hinges (2 pcs)	TH A		
Wall fastening lug set	TF 28037		
Inspection windows	L02 L04 L06 L08 L10	60 x 77 96 x 77 130 x 77 162 x 77 199 x 77	

Product	Order symbol	Size mm	
Brass insert M3 for PC, PCT and ABS enclosures, set of 4 pcs	MRS 28084 set	МЗ	
Mounting screw	MR 28036EU	4.5 x 8.0	
Sealing pin	SB 28088		
Decoration plug for PC, PCT and ABS enclosures	MB 28018		
Water plug	MB 12189		
Cover screw	MR 28005EU		
Mounting screw	MR 28036EU		
Cover screw set, ingl. 2 x MR 28005 EU and 2 x MR 28036	MRS 38036		
Cover screw set, incl. 4 x MR 28005 EU and 4 x MR 28036	MRS 38005		

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FIBOX EURONORD II ALUMINIUM IP66 / IP67, IK 08	Z X C		FIBOX EURONORD II ALUMINIUM IP66 / IP67, IK 08	Z X C	
	L X S	ORDER SYMBOL		LXS	ORDER SYMBOL
AL 050503 Y X X 50 mm 45 mm	Z / C 31.5 x 20.5 B x A - L x S 40 x 35	AL 050503	AL 082506 Y X X 252 mm 81 mm	Z/C 56.5 x 45.5 B x A 231 x 39 L x S 238 x 52	AL 082506
AL 060605 Y X X 60 mm 66 mm	Z/C 46 x 35 B x A 46 L x S 46 x 36	AL 060605	AL 121208 Y X X 125 mm 124 mm	Z/C 81 x 64 B x A 95 x 52 L x S 104,6 x 82	AL 121208
AL 061005 Y X X 100 mm 66 mm	Z/C 46 x 35 B x A 45 x 50 L x S 86 x 36	AL 061005	AL 122208 Y X X 222 mm 125 mm	Z / C 81 x 64 B x A 193 x 52 L x S 202,6 x 82	AL 122208
AL 061505 Y X X 152 mm 66 mm	Z/C 46 x 35 B x A 100 x 46 L x S 138 x 36	AL 061505	AL 123608 Y X X 362 mm 125 mm	Z/C 81 x 64 B x A 333 x 52 L x S 342,6 x 82	AL 123608
AL 080806 Y X X 82 mm 77 mm	Z / C 56.5 x 45.5 B x A 56 x 39 L x S 63 x 52	AL 080806	AL 161609 Y X X 163 mm 162 mm	Z/C 91 x 74 B x A 130 x 76 L x S 140 x 110	AL 161609
AL 081306 Y X X 127 mm 81 mm	Z/C 56.5 x 45.5 B x A 50 x 62 L x S 113 x 52	AL 081306	AL 162609 Y X X 263 mm 162 mm	Z / C 91 x 74 B x A 230 x 76 L x S 240 x 110	AL 162609
AL 081806 Y X X 177 mm 81 mm	Z/C 56.5 x 45.5 B x A 100 x 62 L x S 163 x 52	AL 081806	AL 163609 Y X X 360 mm 160 mm	Z/C 90 x 72 B x A 330 x 76 L x S 340 x 110	AL 163609
External height Y External width X	External depth	Free internal mounting height C Mounting plate assembly	B X A Wall mounting	XS	







FIBOX EURONORD II ALUMINIUM IP66 / IP67, IK 08	Z X C			FIBOX E ALUMIN IP66 / IP67		Z X C		
	L X S	ORDER SYMBOL				L X S	ORDER SYMBOL	
AL 165609 Y X X 560 mm 160 mm	Z x C 90 x 72 B x A 530 x 76 L x S 540 x 110	AL 165609		AL 230 Y X 600 mm		Z x C 110 x 90 B x A 570 x 144 L x S 580 x 180	AL 236011	
AL 232011 Y X X 230 mm 200 mm	Z x C 110 x 93 B x A 144 x 170 L x S 180 x 180	AL 232011		AL 314 Y X 402 mm	X 310 mm	Z x C 110 x 90 B x A 372.5 x 223.5 L x S 382.5 x 261	AL 314011	
AL 232018 Y X X 230 mm 200 mm	Z x C 180 x 162 B x A 144 x 170 L x S 180 x 180	AL 232018		AL 314 Y X 402 mm	X 310 mm	Z x C 180 x 162 B x A 372.5 x 223.5 L x S 382.5 x 261	AL 314018	
AL 232811 Y X X 280 mm 230 mm	Z x C 110 x 93 B x A 250 x 144 L x S 260 x 180	AL 232811		AL 310 Y X 600 mm	310 mm	Z x C 110 x 92 B x A 570x 223.5 L x S 580 x 261	AL 316011	
AL 233311 Y X X 330 mm 230 mm	Z x C 110 x 93 B x A 300 x 144 L x S 310 x 180	AL 233311		AL 31 Y X 600 mm	6018 X 310 mm	Z x C 180 x 162 B x A 570 x 223.5 L x S 580 x 261	AL 316018	
AL 233318 Y X X 330 mm 230 mm	Z x C 180 x 162 B x A 300 x 144 L x S 310 x 180	AL 233318						
AL 234011 Y X X 401 mm 230 mm	Z x C 110 x 92 B x A 373 x 144 L x S 381 x 180	AL 234011						
External height Y External width X	External depth Z	Free internal mounting height	Mounting plate assembly	ВХ	A Wall mounting	X S		













ALUMINIUM ENCLOSURES



- Enclosure covers can be custom designed. Modifications include holes, cutouts, flanges, and frames. Even external changes such as cooling ribs (heat sinks) are possible. OEMis receive the enclosure ready for assembly.
- Cover screws are designed for automatic assembly using normal tools or PosiDrive Phillips screwdrivers. Slightly ferrite, FI stainless screws work with magnetised drivers.
- 3. This enclosure has more internal mounting points than other enclosures on the market. There are threaded M4 or M6 mounting pods at both interior ends of the bases. Along the interior sides, the enclosure bases have rows of pods ready for M3 Taptite (smaller enclosures) and M5 Taptite (larger enclosures). Alternatively, pods can be machined for M4 or M5 mounting screws. Helicoil inserts are available in English thread sizes.

The large number of mounting pods, especially in the bigger enclosures, creates many alternatives for mounting components. Various sized mounting plates are easily installed. DIN rails can be mounted either vertically or horizontally permitting high density terminal block installation.

Usable internal depth is maximised as Euronorm II has the lowest height mounting pods on the market.

- A special retainer keeps cover screws captive. No more lost hardware.
- A variety of mounting plate sizes are available, plus TS35 and TS15 DIN rail cut to size.
- Proper electrical earthing is ensured with copper plated screws and paint free grounding pods.
- The enclosures can be mounted through the base. The mounting holes are outside the gasket area; maintaining the water tight seal. Oval shaped mounting holes accommodate mounting centre variations.
- Optional stainless steel wall mounting plates permit mounting without opening the enclosure.
- The Euronorm II features a slightly bevelled edge design creating a modern look.
- Robotically applied, foamed in place PUR gaskets are into the unique designed gasket groove. The tight adhesion and low compression set of PUR gasket material insures protection ratings of NEMA 4 and IP 66/67.
- 11. Enclosure bases are tapped to receive cover screws, either M4 or M6, depending upon enclosure size. Optional special thread types are available, as are Helicoil special steel thread inserts which prevent cover screws from corroding even in saltwater environments.
- Customisation of the back and sides of the enclosure can be supplied by Fibox.
- 13. Larger enclosures have lots of space for mounting instruments, switches, sensors, indicators and connectors. Smooth sides permit easy machining and allow decal and screen printing. Fibox can customise the enclosure with openings, cut-outs, holes and tapped holes. Changes can add unique options, for example, conduit hub openings or cooling fins.
- 14. Manufactured using unique techniques. These enclosures have straight sides (no draft angle) which means conduit and cable fitting are at right angles, insuring stress free connections. Further, straight sides mean that enclosures can be securely "ganged" together without gaps.

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FIBOX EURONORD II POLYESTER (GRP) IP65, IK 08	Z X C			FIBOX EURONORD II POLYESTER (GRP) IP65, IK 08	ZXC		
	LXS	ORDER SYMBOL			L X S	ORDER SYMBOL	
P 080806 Y X X 80 mm 75 mm	Z x C 55 x 47 B 59 L x S 68 x 45	P 080806		P 162609 Y X X 260 mm 160 mm	Z x C 92 x 75 B x A 233 x 76 L x S 240 x 110	P 162609	
P 081106 Y X X 110 mm 75 mm	Z x C 55 x 47 B 89 L x S 98 x 45	P 081106		P 163609 Y X X 360 mm 160 mm	Z x C 91 x 74.5 B x A 333 x 76 L x S 340 x 110	P 163609	
P 081606 Y X X 160 mm 75 mm	Z x C 55 x 47 B 139 L x S 148 x 45	P 081606		P 252612 Y X X 257 mm 251 mm	Z x C 121 x 105 B x A 227.5 x 100 L x S 236 x 200.5	P 252612	
P 081906 Y X X 190 mm 75 mm	Z x C 55 x 47 B 169 L x S 178 x 45	P 081906		P 254012 Y X X 400 mm 250 mm	Z x C 120 x 104.5 B x A 372.5 x 100 L x S 381.5 x 201	P 254012	
P 121209 Y X X 122 mm 120 mm	Z x C 90 x 75 B x A 95 x 52 L x S 106 x 82	P 121209		P 404012 Y X X 405 mm 400 mm	Z x C 120 x 105 B x A 373.5 x 250.5 L x S 381.5 x 356	P 404012	
P 122209 Y X X 220 mm 120 mm	Z x C 90 x 75 B x A 193 x 52 L x S 204 x 82	P 122209					
P 161609 Y X X 160 mm 160 mm	Z x C 91 x 75 B x A 132 x 76 L x S 140 x 110	P 161609					
External External	External 7	Free internal	Mounting plate	D y Mall	. v		

External height Υ External Width

External depth Z Free internal mounting height C









TECHNICAL INFORMATION FOR EURONORD ALUMINIUM- AND POLYESTER ENCLOSURES

PROPERTY	AISi Cast ALUMINIUM	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection (EN 60529) Impact Resistance (EN 50102) Temperature Range Celsius (short term) Fahrenheit Temperature Range Celsius (continuous) Fahrenheit Polyester Powder Paint Colour Cover Screws Gasket	IP66/67 IK 08 -50°140°C -60°285°F -50°80°C -60°175°F RAL 7001 Stainless Steel PUR/Neoprene	USA Enclosures for Electrical Equipment UL Type 1, 4, 4X, 6, 12 and 13 (50/508) Canada Industrial Control Equipment Enclosures for Electrical Equipment/ULc Europe Safety of Information Technology Equipment EN 60950
Chemical Resistance *	Good	

PROPERTY		FIBERGLASS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection		IP65	USA Enclosures for Electrical Equipment
(EN 60529)			NEMA 1, 4, 4X, 6, 12 and 13
Impact Resistance		IK 08	Canada Industrial Control Equipment
(EN 50102)			Enclosures for Electrical Equipment/ULc
Temperature Range	Celsius	-50°120°C	Europe Safety of Information Technology Equipment
(short term)	Fahrenheit	-60°250°F	EN 60950
Temperature Range	Celsius	-40°80°C	Australia Enclosures for switch gear and control gear
(continuous)	Fahrenheit	-40°175°F	AS 3132-1991
Electrical Insulation		Totally insulated 🔲	UL 746 C 5 in. vertical flame test
Colour		RAL 7001, grey	IEC 695-2-1, Self-extinguishing
Enclosure Flammability	Rating	UL94-5V	
Glow Wire test		960°C	
Cover Screws		Stainless Steel	
Gasket		EPDM	
Chemical Resistance *		Good	

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

ACCESSORIES FOR EURONORD ALUMINIUM ENCLOSURES

Product	Order symbol	Size mm	
Mounting plate	AM 0808 AM 0813 AM 0818 AM 0825 AM 1212 AM 1222 AM 1236 AM 1616 AM 1626 AM 1656 AM 2320 AM 2320 AM 2333 AM 2340 AM 3340 AM 3140 AM 3160	69 x 64 69 x 114 69 x 164 69 x 240 107 x 207 107 x 347 146 x 146 146 x 244 146 x 346 146 x 545 215 x 184 215 x 264 215 x 385 215 x 385 215 x 385 294 x 387 293 x 585	
Mounting rail DIN 15	ARM 0610 ARM 0615 ARM 0808 ARM 0813 ARM 0818 ARM 0825	15 x 88 15 x 140 15 x 65 15 x 115 15 x 165 15 x 240	
Mounting rail DIN 35	ARH 12 ARH 22 ARH 36 ARH 16 ARH 16 ARH 1636 ARH 1656 ARH 2320 ARH 2328 ARH 2333 ARH 40 ARH 60	35 x 105 35 x 203 35 x 343 35 x 140 35 x 240 35 x 340 35 x 540 35 x 180 35 x 260 35 x 310 35 x 383 35 x 580	
Earth screw Earth screw Mounting screw Screw set	MR 28550M MR 28546CU MR 28548ZN MRS 38546	M4 x 6 M4 x 6 M4 x 6	
Ground screw	MR 28547CU	M6 x 8	

Product	Order symbol	Size mm	
Mounting screw Screw set Cover screw Cover screw	MR 28549ZN MRS 38547 MR 10425 MR 10635	M4 x 20 M6 x 30	
Mounting foot kit	MRS 28540 MRS 28541	11 x 42 15 x 50	
Mounting screw	MR 28550 MR 28546CU MR 28548ZN MRS 38546 MR 28547CU MR 28549ZN MRS 38547 MR 75003 MR 75005	M4 x 6 M4 x 6 M6 x 8 M6 x 8 M3 M5	
	MRHC 406 MRHC 609	M4 M6	
Cover screw	MRS 28544A4 MRS 28545WH	M6 x 30 M6 x 30	

ACCESSORIES FOR EURONORD POLYESTER

Product	Order symbol	Size mm	
Mounting plate	PM 0808 PM 0811 PM 0816 PM 0819 PM 1616 PM 1626 PM 2526 PM 2540 PM 4040	64 x 69 64 x 99 64 x 149 64 x 179 146 x 146 146 x 244 231 x 240 231 x 383 390 x 385	
Mounting rail DIN 15	PRM 0811 PRM 0816 PRM 0819	15 x 99 15 x 149 15 x 179	
Mounting rail DIN 35	PRH 2526	35 x 238	
Hinge kit 1 pair includes screws	AH A/B PH A		
Mounting lug kit	MRS 28540 MRS 28541	11x42 15x50	

FIBOX_









The FIBOX MCE modular component enclosures offer a practical and modern design to automation, control and switch gear applications from IP 55 (MCE FEM and MCE ISO) to IP 65 (MCE CONTROL). In MCE CONTROL and MCE FEM unique features include multiple membrane cable glands (Multi-FEM). In larger (14+) sizes a variety of flange plates is available for the standard size 2 knock-out. All cable entry knock-outs in Fibox MCE are in metric dimensions to reflect modern trends. Application specific wiring can be achieved from any direction, easily, quickly and securely.

FIBOX MCE CONTROL

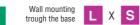
FIBOX MCE CONTROL Polycarbonate: IP 65, IK 08	LXS	Including: Multi-FEM (one for 5 a or FEM 14-20 membrane cable gipre-mounted, wall mount cover pinstructions.	and 9, two for 14 and three for 28 and 42), FEM 10-14/25 and/ lands, two PEN 10mm² bars in plastic support, DIN 35 rail olugs, module marking stripe and -pocket, mounting
	mm	ORDER SYMBOL	Endplates
MCE PC 5 Y X X X Z 200 116 105 mm mm	L/S 155/60	MCE PC 5 MF/M	MCE 5 MF MCE 5 M M20 M25/M16
MCE PC 9 Y X X X Z 200 190 105 mm	L/S 155/120	MCE PC 9 MF/M	MCE 9 MF
MCE PC 14 Y x X x Z 280 306 145 mm mm	L/S 236/220	MCE PC 14 MF/FL MCE PC 14 MF/M	MCE 9 M
			M20 M20 M20 M25/M16 M25/M16 M25/M16
MCE PC 28 Y X X X Z 430 306 145 mm	L/S 386/220	MCE PC 28 MF/FL MCE PC 28 MF/M	MCE 14 FL (for sizes 14, 28 and 42) 14-42 M25 M32 FBOX EX floringe size 2 M32 FBOX EX floringe size 2
			MCE 14 M (for sizes 14, 28 and 42) 14 - 42
MCE PC 42 Y X X X Z 580 306 145 mm	L/S 536/220	MCE PC 42 MF/FL MCE PC 42 MF/M	R R R R R R R R R R R R R R R R R R R
			MCE 14 MF (for sizes 14, 28 and 42) 14-42 M50/M25 M40/M25 M50/M32















FIBOX MCE FEM

FIBOX MCE FEM Polystyrene: IP 55, IK 07	Lvc	Including: Multi-FEM (one for or FEM 14-20 membrane cabl pre-mounted, wall mount cove instructions.	5 and 9, two for 14 and three for 28 and 42), FEM 10-14/25 and/ e glands, two PEN 10mm² bars in plastic support, DIN 35 rail er plugs, module marking stripe and -pocket, mounting
	L X S	ORDER SYMBOL	Endplates
MCE FEM 5 Y x X x Z 200 116 105 mm mm mm	L/S 155/60	MCE FEM 5 MF/M	MCE 5 MF 5
MCE FEM 9 Y X X X Z	L/S 155/120	MCE FEM 9 MF/M	MCE 5 M M20 M25/M16 M25/M16 M25/M16 M25/M16 M37
200 190 105 mm mm mm			MCE 9 MF
MCE FEM 14 Y X X X Z 280 306 145 mm mm mm	L/S 236/220	MCE FEM 14 MF/FL MCE FEM 14 MF/M	MCE 9 M
			M20 M20 M20 M20 M25/M16 M25/M16 M25/M16
MCE FEM 28 Y X X X Z 430 306 145 mm mm mm	L/S 386/220	MCE FEM 28 MF/FL MCE FEM 28 MF/M	MCE 14 FL (for sizes 14, 28 and 42) 14-42
			MCE 14 M (for sizes 14, 28 and 42) 14-4-2 M20 M25/M16
MCE FEM 42 Y x X x Z 580 306 145 mm mm	L/S 536/220	MCE FEM 42 MF/FL MCE FEM 42 MF/M	M20 M25/M16 M25/M20 M32/M20 M32/M20 M32/M20 M32/M20 M32/M20
			MCE 14 MF (for sizes 14, 28 and 42) 14-42 M20 M20 M20 M20 M20 M20 M20 M













FIBOX MCE ISO

		_		
FIBOX MCE ISO Polystyrene: IP 55, IK 07	1 0	Including: Modular component enclosure with TPE gaskets, mounted DIN 35-rail, wall mount cover plugs and mounting instructions.		
	L x S	ORDER SYMBOL	Endplates	
MCE ISO 5 Y X X X Z 200 116 105 mm mm	L/S 155/60	MCE ISO 5 P/P	MCE 5 P	
MCE ISO 9 Y X X X Z 200 190 105 mm	L/S 155/120	MCE ISO 9 P/P	MCE 9 P	
MCE ISO 14 Y X X X Z 280 306 145 mm	14 L/S 236/220	MCE ISO 14 P/P	MCE 14 P 14	000
MCE ISO 28 Y X X X Z 430 306 145 mm	28 L/S 386/220	MCE ISO 28 P/P	MCE 28 P 28	200
MCE ISO 42 Y X X X Z 580 306 145 mm mm	42 L/S 536/220	MCE ISO 42 P/P	MCE 42 P 42	000





External depth









FIBOX MCE

SYMBOLS AND ABBREVIATIONS

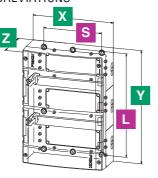


X External



Wall mounting trough the base

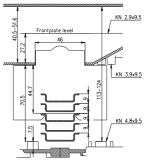
S Wall mounting trough the base



ASSEMBLY HEIGHTS

Dimensions for sizes 5 and 9

Dimensions for sizes 14, 28 and 42



TECHNICAL INFORMATION FOR MCE CONTROL

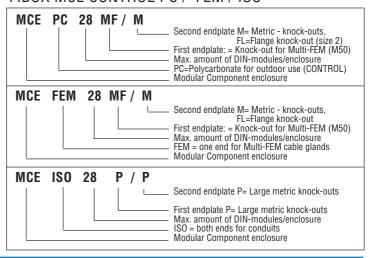
PROPERTY		POLYCARBONATE (PC)	CONFORMITY TO STANDARDS
Ingress Protection (EN 6 Impact Resistance (EN 5 Temperature Range (short term) Temperature Range	0102) Celsius Fahrenheit Celsius	IP 65 IK 08 -40°-120°C -40°-250°F -40°-80°C	Europe Enclosures for Switch Gear and Control Gear Assemblies EN 50298:1998 Europe Safety of Information Technology Equipment EN 60950 Australia Enclosures for switch gear and control gear
(continuous) Insulation	Fahrenheit	-40°−175°F Totally insulated □	AS 3132-1991
Light Grey Parts Colour		RAL 7035 Industry Grey	
Transparent PC Cover Cover Screws		Smoked Grey Grey, Polyamide (PA) TPE Thermo Plastic Elastomer	
Gasket Enclosure Flammability F Glow Wire Test	lating	UL-94 5V 960°C	UL 746 C 5 in. Vertical flame test IEC 695-2-1, Self-extinquishing
Non-toxicity UV resistance		Halogen Free UL 508	DIN/VDE 0472, Part 815
Chemical Resistance *		720 hours in "Weatherometer" Good	

TECHNICAL INFORMATION FOR MCE FEM AND MCE ISO

PROPERTY	VALUE		
Ingress Protection (EN 60529)	IP 55		
Impact Resistance (EN 50102)	IK 07		
Temperature Range (short term)	-40°80°C		
Temperature Range (continuous)	-40°60°C		
Electrical Insulation	Totally insulated		
Light Industry Grey Parts Colour	RAL 7035		
Transparent PC Cover	Smoked Grey		
Cover Screws, Polyamide (PA)	Grey		
Gasket	TPE		
Material Flammability Rating	UL-94HB		
Glow Wire Test (IEC 695-2-1)	750°C		
Glow Wire Test/Current carrying parts	960°C		
Non-toxicity (DIN/VDE 0472, Part 815)	Halogen Free		
Chemical Resistance *	Good		

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

FIBOX MCE CONTROL PC / FEM / ISO



WHY POLYCARBONATE (PC)?

Polycarbonate, trade names Lexan, Makrolon etc., is known as high tech engineering thermoplastic with high levels of mechanical, optical, electrical and thermal properties. But why are Fibox Polycarbonate types so well suited for enclosures in power distribution applications?



It can be used outdoors

Polycarbonates FIBOX use are all UV tested for outdoor use, are highly corrosion resistant and make enclosures IP 65 (EN 60529 4:1992) weather resistant. One quality of enclosure for all environments.

It is safe in fire Polycarbonates F

Polycarbonates FIBOX use are 960 (C glow wire (IEC 695-2-1) and UL 94 V-0 tested. Self-extinguishing, non-igniting with no potentially hazardous halogen additives.



It does not break

Hard knocks and rough handling pose no problems. Polycarbonates that Fibox uses insure that our enclosures meet IK 08 (EN 50102) or better impact resistance.

Interested in more information? Order Fibox "The Future is Plastic" information sheet.

IBQXE CONTRO

SPACIOUS AND EASY TO WIRE

PEN supports are positioned to allow optimum wiring space inside the enclosure. Their position also makes wiring as easy as possible.

DIN rails are mounted away from the base of the enclosure and on units of

14+ modules the position is adjustable.

Large knockouts are provided in the base of the enclosure to accommodate

the entry of flush wiring.

EVERY WIRING CONFIGURATION MADE POSSIBLE

"MULTI FEM", multi-cable membrane glands, size M50, enable quick and effective entry of 3 x Ø 6-10 mm, 3 x Ø 10-14 mm through one single membrane while maintaining IP65.

In sizes for 14 modules and above many gland plate options are available including blind, metric, PG, threaded, NPT and membrane versions. There are cable entries on five sides of every MCE enclosure and all of them are to the metric standard.





- Terminal holder for 6,5 x 10 mm mm brass PEN-bars clips on DIN-rail, too
- Extra mounting pods for cross direction DIN rails
- Direct key hole wall mount or optional wall mounting lugs (FP 26127 and FP 26128)
- Size 2/FL 21 knock-out for standard gland plates
- Front aperture can be covered with plates (mounting screw holes provided)
- Window can be replaced with instrumentation cover (14+ sizes)
- Enclosures can be connected to each other in all four directions due to the smooth sides and M20 knock-outs
- Enclosure can be mounted directly on flush mounted junction boxes via purpose designed knock-outs in the bottom of the enclosure

FIBOX MCE



UNAUTHORISED ACCESS STOPS HERE

Stylish, but impact proof window can be secured easily with a clasp, MR 26065 key lock (optional) or screw. Pad lock set MR 26146 SET for three MCE 14+ windows is also available. Secured windows cover the screws used for the mounting of frame part of the enclosure and thus the components and the wall mountings remain inaccessible. Cover screws and windows can be wire sealed, too.

ACCESSORIES FOR FIBOX MCF CONTROL AND FEM

Product	Order symbol	Size mm	EAN-code
Multi-FEM Multi-FEM membrane cable glands allow entry of several cables trough one gland. IP 65.	MFM 8-12	M50	
Membrane cable glands Easy and fast assembly, security, high protection rating (IP 65) and cable strain relief are standard features.	FEM 3-5 FEM 5-7 FEM 7-10 FEM 10-14/23 FEM 10-14725 FEM 14-20 FEM 20-26 FEM 26-35 FEM 30-45	M12 M16 M20 M23/PG16 M25 M32 M40 M50 M60	
Membrane flange plates Time and space saving membrane flange plates are made of light grey EPDM rubber. They offer up to three times the capacity of a traditional cable gland. 25 entries: 4x5 7 + 4x812 +12x10-14 + 4x14-20 +1x20-26 35 entries: 2x5-7 + 6x6-10 + 8x7-12 + 16x10-14 + 2x12-18 +1x17-3	FMB 5 FMC 3 FMC 25 FMC 35	Flange size 2 (EK) size 2 (EK)	
Flange plate (PC) Cover plate (Metric) knockout plate, 4xM12 + 4xM12/M20 + 4xM16/M2 Glass fibre reinforced polycarbonate flange plates are completely halogen free. EPDM-gaskets ensure high IP 67 protection rating. Smooth cover plate provides easy and safe machining.	MB 10546 5 MB 10857	Flange size 2 (EK) size 2 (EK)	
Knock-out plate (PC) These PG-knock-out plates feature the same material properties, and strength as MB 10546 and MB 10857 Knock-out plate (PC) 9xPg 11 + 5xPg 9/10 4xPg 21/29 13xPg10	MB 10594	Flange size 2 (EK) size 2 (EK) size 2 (EK)	
Key lock set One key lock set includes two keys. No mounting required: simply insert the lock with the key, turn clockwise and remove the key. To unlock just reverse the procedure.	MR 26065		
Wall fastening lug FIBOX MCE enclosures can be mounted to wall or rails either through the base of the enclosure or with wall fastening lugs. Single lug allows fastening of an enclosure without piercing the base. Double lug can be used for wallmounting of a single enclosure or for conjuction of two enclosures.	FP 26128 FP 26127		
PEN bus-bar for MCE 5 for MCE 9 for MCE 14-42	PEN H 26135 PEN H 26136 PEN H 26140		
Multiadapter for PEN-bars	MU 26138		
PEN-bar Earth/neutral terminal busbar 6x10 mm² 10x10 mm² 16x10 mm² 16x10 mm² 35x10 mm²	PEN 6x10 PEN 10x10 PEN 16x10 PEN 35x10		
Marking stripe for MCE 5 Marking stripe pocket for MCE 5 Marking stripe for MCE 9 Marking stripe pocket for MCE 9 Marking stripe for MCE 14+ Marking stripe pocket for MCE 14+	MB 26061 MB 26062 MB 26063 MB 26064 MB 26065 MB 26066		
Cover Stripe	MB 26050		

FIBOX MCE

MODULAR SERVICES FOR YOUR BEST

Fibox introduces surface mounting aid and multitude of earth-neutral solutions for all MCE sizes and a pad locking system for MCE 14+ sizes. All these products affirm the modularity of MCE enclosures and emphasise the characteristics of the range.

FIBOX MCE PE/N/PEN -bar -sets are complete packages, that include Phase Earth and Neutral bars and all necessary holders needed for assembly to FIBOX MCE enclosures. The same parts follow with standard delivery of MCE CONTROL and MCE FEM enclosures.

Note! All FIBOX MCE PE/N/PEN holders can also be mounted straight on DIN-rails. Then they take about one modular width, depending on the type of the wire used.

This feature together with well designed knock-outs on five sides of the MCE-enclosures enables the use of solitary enclosures even only for earthing purposes, whilst components are on neighbouring enclosures. Use of double wall fastening/conjunction lugs FP 26127 is useful on these occasions.

Product	Order symbol	
Ready to fit set includes PEN-bar holder for MCE 5 with two 6x10mm² brass bars.	MCE 5 PEN SET	
Ready to fit set includes PEN-bar holder for MCE 9 with two 10x10mm² brass bars.	MCE 9 PEN SET	
Ready to fit set includes PEN-bar holder for MCE 14 with two 16x10mm² brass bars.	MCE 14 PEN SET	
Ready to fit set includes two PEN-bar holders for MCE 14 with two 16x10mm² brass bars and one 35x10mm² brass bar and a multi adapter for easier mounting.	MCE 14 MU PEN SET	
Multi adapter set accepts a variety of PE/N/PEN -bars: brass or copper, profiles of 6,5x10mm (1 position in 4 placements), 5x5mm (2 positions in 3 placements), 2x12mm (12 placements). Naturaly the MCE 14+ PE/N/PEN -bar holder fits into multi adapter. It can be mounted on DIN 35 -rail or to internal towers of MCE 14 and larger enclosures. Set includes a pair of tower mounting pieces and two multi adapters. PE/N/PEN -bars need to be acquired separately.	MCE MU PEN SET	
Terminal bus-bar clamp, 25 mm².	MS BAR CLAMP	
Terminal bus-bar clamp, 35 mm².	MR 26145	

ALUMINUM FRONT PLATE FOR MCE 14+ ENCLOSURES FP A 26133 broadens the spectrum of control and measurement equipment that can be assembled into MCE 14 and larger enclosures.

- rigid: Use for switches.
- even: ideal for membrane keypads
- flat: good for variety of displays
 light in weight, as all FIBOX MCEs
- easy to tool, as FIBOX MCE in the whole.
- · easy to mount with just four screws.

(KN 2.9x9.5, please order separately, if applicable).

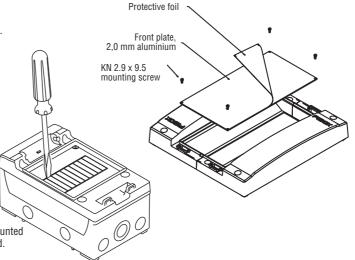
SURFACE MOUNTING ON MCE 5 AND MCE 9 ENCLOSURES Flat surface of the two smallest MCE enclosures allow mounting of displays, membrane keyboards, etc. directly under the window. To open the inner cover for modular components, please use screwdriver and hammer or a knife.

PAD LOCKING SET FOR MCE 14+ ENCLOSURES

Pad locking set **MR 26146 SET**, which provides double locking safety for three MCE 14+ windows. Six 25mm x 25mm pad locks mounted into three holder parts keeps max. 42 modular components protected.

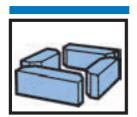
WALL MOUNTING RAIL FOR MCE 14+ ENCLOSURES

Wall mounting rail set **FP AL 26148** contains two rails and mounting instructions. Rail is mounted horizontaly to the back of the enclosure with two M5 12-14 mm screws. These holes on the rail are threaded. The wall mounting holes at the end of the rail are of 10 mm diameter. Please acquire the screws separately.



FIBOX CUSTOMISATION SERVICES FOR MCE -ENCLOSURES

More than 30 years of know-how with injection moulded plastic enclosures has taught FIBOX few tricks of the trade. Therefore we are able to provide a comprehensive range of enclosure customising options in affordable price and short lead times. Machining and tooling can be done with experience and expertise. Customised moulding is also available for larger orders in very economical price. Printing or colouring can give your product the needed edge. And we are proud to offer it to you.



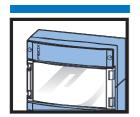
FIBOX CUSTOMISATION SERVICES FOR MCE ENCLOSURES.

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CUSTOMISED TOOLING

Our customized tooling service offers you a low cost method of producing "tailor-made" enclosures to your own exact specification. The required investment is often minimal, especially when existing interchangeable tool slides can be utilized. A typical lead time using this option can be as short as 5 to 8 weeks. As an example, the end plates of Fibox MCE enclosures can be easily modified. This means the mount, shape and number of knock-outs can be changed. We can even provide no knock-outs at all.

The flexible modular design of the Fibox MCE range means that to achieve large scale customization it may be only necessary to modify a small number of tools, therefore keeping the expense aspects under control. In addition to physical modifications the colour of the enclosure can be customized by using colour pigmented plastic granules. In the case of a customized mould run the colour change represents only a nominal extra cost.



COLOURED PLASTIC ENCLOSURES

Fibox offers plastic enclosures in various customized RAL colours by using pre-coloured plastic raw material granules. The best result is achieved on non glass reinforced fibre materials. Colouring can be used as an efficient and relatively low cost method of promoting your company's corporate identity. This process becomes economical for batches of more than 500 pieces, then the surcharge is about 50%. For batches of 2000 pieces the surcharge is only about 10%. The additional cost involved when colouring enclosure raw material is incurred in cleaning and preparing moulds both before and after the production run. Painting of an MCE enclosure is not recommended due to the modular nature and design features.

As all Fibox MCE enclosures are constructed from various parts all these parts must be coloured separately. This allows for a variety of colour combinations. For example the cover screws, the enclosure body and the front frame can all be different colours. When designing a customized product it is important to remember that each coloured mould run increases the total enclosure price.



PRINTED ENCLOSURES

Silk screen printing and Tampo printing are recommended methods of adding logos, text or imagery to Fibox enclosures. Both methods can be used on flat surfaces and tampo printing is suitable for curved areas such as the cover . It is also recommended for areas where access is restricted, for example the area underneath the viewing window on Fibox MCE enclosures. Silk screen printing is an economical option for production batches of say 100, and Tampo printing is cost effective when the run is say 1000 pieces. Both methods, silk screen printing and Tampo printing, can accommodate one to three colours to RAL or PMS specifications. A quality end result is assured with both processes.



MACHINED ENCLOSURES

The Fibox machining service offers a peace of mind, value for money solution to your customizing requirement. Years of experience mean we can create the exact specification your drawings demand. Because we know our products and materials intimately we can advise you on the most efficient means of meeting your customizing needs quickly and efficiently. Fibox can machine enclosures to drawing with either metric or imperial dimensions. To attain a satisfactory result time and again we request that correct customizing drawings are provided. Our CAD/CAM system helps both Fibox and your designer to create drawings for CNC machining. Drawings of enclosures are available at www.fibox.com to be either printed out or copied c/w dimensions in PDF and GIF format or in DWG, IGES and DXF for downloading onto your CAD system for further modifications. Several enclosure drawings are also available in 3D format upon request.

Although machining a standard Fibox MCE enclosure is possible, a better result will be achieved if totally smooth end plates are utilized at the outset. These options can be viewed in our range brochure — FIBOX MCE PANEL or by visiting www.fibox.com .

TESTED SYSTEMS





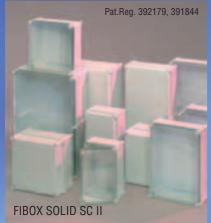






www.fibox.com









The FIBOX SOLID SC II range, SM range and SOLID Hinged Cover range offer a clear alternative to polyester enclosures. Moulded with impact resistant polycarbonate or ABS plastic, the FIBOX SOLID range is available as a screw cover enclosure or as a hinged cover enclosure.

The enclosures are rated EN 60529 IP66 / IP67.

FIBOX SOLID

FIBOX SOLID			Including: Enclosure ba	ase, 4 cross head cover screws, and mounting	ВХА
PC: IP66 / IP67, IK 08 ABS: IP66 / IP67, IK 08	Z	С	ORDER SYMBOL	ORDER SYMBOL	L X S
	mm	mm	Grey cover	Transparent cover	mm
PC 1919 ABS 1919 Y X X 190 mm 190 mm	130 130	115 115	Cover 30 mm PC 1919 13 G ABS 1919 13 G Cover 80 mm	Cover 30 mm PC 1919 13 T ABS 1919 13 T Cover 80 mm	B x A 120 x 120 L x S
	180 180	165 165	PC 1919 18 G ABS 1919 18 G	PC 1919 18 T ABS 1919 18 T	164 x 164
PC 2819 ABS 2819 Y X X 280 mm 190 mm	130 130	115 115	Cover 30 mm PC 2819 13 G ABS 2819 13 G	Cover 30 mm PC 2819 13 T ABS 2819 13 T	B x A 210 x 120
280 11111 190 111111	180 180	165 165	Cover 80 mm PC 2819 18 G ABS 2819 18 G	Cover 80 mm PC 2819 18 T ABS 2819 18 T	L x S 254 x 164
PC 3819 ABS 3819 Y X X 380 mm 190 mm	130 130	115 115	Cover 30 mm PC 3819 13 G ABS 3819 13 G	Cover 30 mm PC 3819 13 T ABS 3819 13 T	B x A 310 x 120
Soo min 130 min	180 180	165 165	Cover 80 mm PC 3819 18 G ABS 3819 18 G	Cover 80 mm PC 3819 18 T ABS 3819 18 T	L x S 354 x 164
PC 2828 ABS 2828 Y X X	130 130	115 115	Cover 30 mm PC 2828 13 G ABS 2828 13 G	Cover 30 mm PC 2828 13 T ABS 2828 13 T	B x A 210 x 210
280 mm 280 mm	180 180	165 165	Cover 80 mm PC 2828 18 G ABS 2828 18 G	Cover 80 mm PC 2828 18 T ABS 2828 18 T	L x S 254 x 254
PC 3828 ABS 3828 Y X X	130 130	115 115	Cover 30 mm PC 3828 13 G ABS 3828 13 G	Cover 30 mm PC 3828 13 T ABS 3828 13 T	B x A 310 x 210
380 mm 280 mm	180 180	165 165	Cover 80 mm PC 3828 18 G ABS 3828 18 G	Cover 80 mm PC 3828 18 T ABS 3828 18 T	L x S 354 x 254

















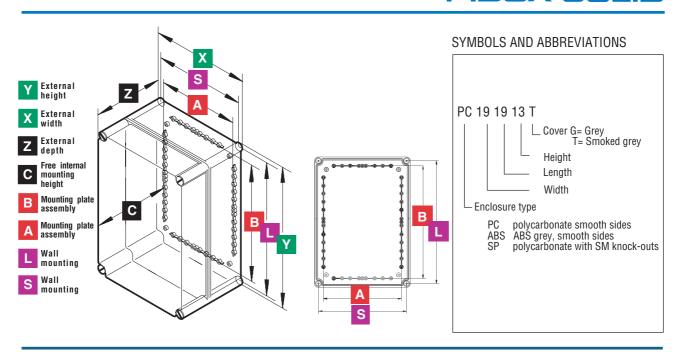








FIBOX SOLID



FIBOX SOLID PC: IP66 / IP67, IK 08			Including: Enclosure screws.	base, 6 cross he	ad cover screws, and mo	ounting	вха
ABS: IP66 / IP67, IK 08	Z	С	ORDER SYMBOL		ORDER SYMBOL		L X S
	mm	mm	Grey cover		Transparent cover		mm
PC 5628 ABS 5628 Y X X 560 mm 280 mm	130 130	115 115	Cover 30 mm PC 5628 13 G ABS 5628 13 G		Cover 30 mm PC 5628 13 T ABS 5628 13 T		B x A 489 x 210 L x S 534 x 254
PC 5638 ABS 5638 Y X X 560 mm 380 mm	180 180	165 165	Cover 30 mm PC 5638 18 G ABS 5638 18 G		Cover 30 mm PC 5638 18 T ABS 5638 18 T		B x A 489 x 310 L x S 534 x 354

FIBOX SOLID SM WITH METRIC KNOCK-OUTS

FIBOX SOLID SM PC: IP66 / IP67, IK 08			Including: Enclosure t	pase, 4 slotted cover screws, and mounting	ВХА
ABS: IP66 / IP67, IK 08			ORDER SYMBOL	ORDER SYMBOL	L X S
	Z	C	Grey cover	Transparent cover	mm
SM 1928 Y X X 280 mm 190 mm	130	115	SM 1928 13 G SM 1928 18 G	SM 1928 13 T SM 1928 18 T	B x A 210 x 120
					L x S 254 x 164
SM 2819 Y X X 190 mm 280 mm	130 180	115 165	SM 2819 13 G SM 2819 18 G	SM 2819 13 T SM 2819 18 T	B x A 210 x 120
					L x S 254 x 164
SM 2828 Y X X 280 mm 280 mm	130 180	115 165	SM 2828 13 G SM 2828 18 G	SM 2828 13 T SM 2828 18 T	B x A 210 x 210 L x S 254 x 254
SM 2838 Y X X 380 mm 280 mm	130 180	115 165	SM 2838 13 G SM 2838 18 G	SM 2838 13 T SM 2838 18 T	B x A 310 x 210
					L x S 354 x 254























FIBOX SOLID

TECHNICAL INFORMATION

PROPERTY	POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection	IP66/IP67	IP66/IP67	USA Enclosures for Electrical Equipment
(EN 60529)			PC: UL Type 1, 3, 3S, 4, 4X, 6, 12 and 13 (UL 50/508)
			ABS: NEMA 1, 4, 4X, 6, 12 and 13
Impact Resistance	IK 08	IK 08	Canada Industrial Control Equipment
(EN 50102)			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	Clear Transparent	Clear Transparent	
Cover Screws	RAL 7035	RAL 7035	
Cover Screws	Polyamide (PA)	Polyamide (PA)	
Gasket	PUR/EPDM	PUR/EPDM	
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

710020001	1120		
Product	Order symbol	Size mm	
Mounting plates	EKHVT EKJVT EKMVT EKOVT EKPVT EKTVT EKUVT	148 x 148 238 x 148 338 x 148 238 x 238 338 x 238 518 x 238 518 x 338	
Mounting rails DIN 35	EKV 12 EKV 22 EKV 32	35 x 160 35 x 235 35 x 335	
Extension frame, 50 mm	EKJZR EKMZR EKOZR EKPZR EKTZR EKUZR	280 x 190x50 380 x 190x50 280 x 280x50 380 x 280x50 560 x 280x50 560 x 380x50	
Inspection windows	L44 II	377 x 331 331 x 231	
	L43 II	248 x 218	
L44II I	L24 II	240 X 210 248 X 128	
1 1 1 1 1	L12 II	248 x 218	
L43II	L24		
L12 II	L12	248 x 128	
, 1	L13	257 x 108	
L24 II	L10	199 x 77	
127	L08	162 x 77	
L 24 L 12	L06	130 x 77	
	L04	96 x 77	
L 13	L02	60 x 77	

Product	Order symbol		
Front plates for windows L12 and L24	B12 10621-45 B24 10620-45		
Cover screws a b c d	HS 10255 (a) CS 10256 (b) DS 10581 (c) SS 10535 (d) SS 10544 (e) HS 10533 (f)	For 30 mm cover Wing head Cross head Triangle head Slotted head, sealable Slotted head, quick-lock* Wing head, quick-lock*	
9 53/ h 50	HS 10532 (g) MB 10534 (h) SS 10563 (i)	Wing head, hinged* Threaded bushing (to be ordered separately with quick-lock screws) For 80 mm cover Slotted head	
j (S) k Sobra	HS 10562 (j) DS 10581 (k)	Wing head Triangle head	
Ventilators	MB 10564 II MB 10631		
Hinges	MB 10622		
անֆ անֆ	MB 10547 PA 10547 FA 10547	Drill template, PA Drill template, metal	
क्षा करते	EKZKS 1		

FIBOX SOLID

ACCESSORIES

Product	Order symbol	Size mm	
Spacers	MR 10726 MR 10727 MR 10728 MR 10729	15, M6 (inner) 20, M6 (inner) 30, M6 (inner) 54, M6 (inner)	
	HR 10 HR 15 HR 20 HR 30	10, M6/M6 15, M6/M6 20, M6/M6 30, M6/M6	
	FA 12052 FA 12053	14, M5 (inner) 42, M5 (inner)	
	MB 10686	15/34	
	FX 20 set		
	MB FP88	88	
	MB FP882	88	
Lock	MB10597		
Mounting feet	MB 10674		
Triangular key	MB 10673 set		
Front plates for Solid SM enclosures	FP12-2819 FP12-2828 FP12x2-2828 FP12x2-2838 FP12x3-2838 FP12x3-2856		

FIBOX SOLID SC II ENCLOSURES

These cabinets, are made from high impact resistant polycarbonate material, and will withstand harsh industrial environments. They have ready mounted hinges and quick lock screws. Protection to IP65 is maintained when fastened. The enclosure base features many internal mounting pods for various assembly requirements. SOLID SC enclosures offer a large number of accessories. Transparent cover options allow visual inspection of equipment installed inside the enclosure.

Approvals: IP65

Grey cover Transparent cover	
SC 281918 G II SC 281918 T II 2 SC 381913 G II SC 381913 T II 3 SC 381918 G II SC 381918 T II 3 SC 282813 G II SC 282813 T II 2 SC 282818 G II SC 282818 T II 3 SC 382813 G II SC 382813 T II 3 SC 382818 G II SC 382818 T II 3 SC 562813 G II SC 562813 T II 5	280 x 190 x 130 280 x 190 x 180 380 x 190 x 130 380 x 190 x 180 280 x 280 x 130 280 x 280 x 180 380 x 280 x 130 380 x 280 x 130 380 x 280 x 180 560 x 280 x 130 560 x 380 x 180

FOUR EASY STEPS TO BUILD A DISTRIBUTION PANEL THAT WORKS

BASE FURNISH CLAD ROOF



Medium to large size enclosures manufactured using impact resistant polycarbonate.

Available with one or more flange openings. The flange openings allow modular assembly of several enclosures and the addition of various size cable glands and knockout flanges. Select from a large selection of standard flanges or request flanges machined separately to customer specifications. The EK bases feature multiple mounting pods.

A large range of accessories is available.

Base = FKHA



Base = **EKJB**



Base = **EKMB**



Base = **EKOE**



Base = **EKPE**



Base = **EKPK**



Base = **EKTH**



Base = **EKUH**



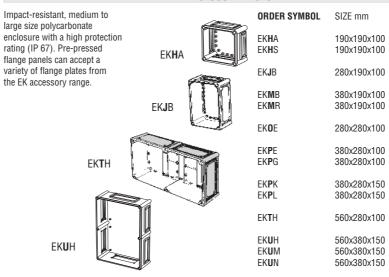
Base = **EKWH**

BASE

ENCLOSURE BASES

EK**W**H

760x560x150



THE THIRD LETTER OF THE ORDER SYMBOL INDICATES THE SIZE OF THE ENCLOSURE: For example the letter J in the order symbol EKJB stands for the size 280x190 mm

H = J = M = 0 = P =	280x1 380x1 280x2 380x2	90 " 80 " 80 "									
T = U = W =	560x2 560x3 760x5	80 "		EKMR 2		EKHS 1	EKHS				190
	1	2 EKJB 2	1/1	EKMB 2	1	1 1 EKHA 1	√ 1 1 EKHA	1			190
	2	2	2 2	2 EKPE	2	2 EK	1 (PG	2			280
	}	2	-⊹	2	4	2) Y-	3		+
	2	EKTH	2 2	EKPK 3	2	2 EKU		2 2	EKUM	2	260
	2	25113000	2 2	3 EKPL	2	2		2 2	LKOM	2	2
	Ĺ	2	╌ᢢ_	3	_{	2		<u>_</u>	2	_	1
			2	3	2	2			2	2	
			}	EKUN	Ì		El	СWН			560
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			_	3	الـ	2			2	}	1
		280		380			7	60			

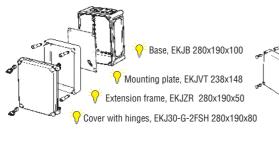
The bases marked with the grey colour have a depth of 150 mm, the others are 100 mm. The number on the bases indicates the size of the flange plate.

BASE

EXAMPLE OF THE ASSEMBLY OF ONE ENCLOSURE



THE SIZE OF THE WHOLE ENCLOSURE ACCORDING TO THE LETTER: The enclosure sized (280x190x230) can be assembled as follows:



The order symbol indicates the size (FP 12x2-2828) or the toolnumber (SS 10256) of some products

Base, EKOE 280x280x100 Front plate, FP 12x2-2828 Extension frame, EKOZR Cover EKO 80-T 280x280x80

Screw, SS10256

ASSEMBLYING ENCLOSURES



The plate connectors can be used to assemble bases or flanges and bases



Connector set + 4 screws Connector set + 4 screws Connector set + 4 screws

Plastic head screw for the assembly of bases with sixe 1 opening
Plastic head screw for the assembly
of bases with size 2 openings

Lock nuts for plastic head screws

ORDER SYMBOL SIZE MB 10671 MB 10670 2

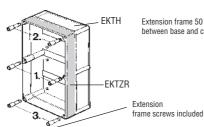
MB 10672 M6x30 MB 10472

M8x30

M6 M8

MB 10474

EXTENSION FRAMES



Extension frame 50 mm, between base and cover.

	UNDEN
7	EKJZR
₩.	EKMZR
	EKOZR
	EKPZR
	EI/TZD

ORDER SYMBOL SIZE mm 280x190x50 380x190x50 280x280x50 380x280x50 560x280x50 EKTZR EKUZR 560x380x50

SUPPORT FLANGES



ORDER SYMBOL SIZE Support flange MB 10025 Support flange MB 10026

WALL FASTENING LUG





Wall fastening lug set, 4 pcs incl. screws

MB 10674

ORDER SYMBOL

ORDER SYMBOL



FASTENING OF BIG SYSTEMS

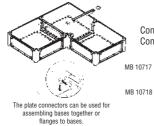


Connecting rail, standard length 2000 mm Stud rail, standard length 2000 mm Lock for connecting rail

EKZKK1 EKSZY2 EKZKH1

SIZE

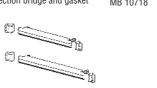
THE BASE CONNECTORS



Connection bridge and gasket Connection bridge and gasket

MB 10717 2 MB 10718 3

ORDER SYMBOL











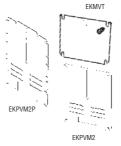




FURNISH







Note! EK-mounting plates also for Solid-enclosure.

MOUNTING PLATES

Mounting plate, metal Mounting plate, metal

	EK H VT	148x148
) <	EK J VT	238x148
	EK M VT	338x148
	EK 0 VT	238x238
	EK P VT	338x238
	EK T VT	518x238
	EK U VT	518x338

SIZE mm

KWh-mounting plate, metal KWh- mounting plate, plastic Accessory screws for mounting the KWn meter

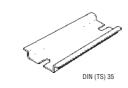
DIN RAILS

DIN RAIL FRAME

EKPVM2 338x238 EKPVM2P 338x238 M6x16 6x16

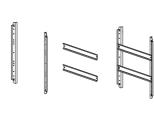
ORDER SYMBOL





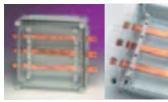
	ORDER SYMBOL	SIZE mm
DIN-rail	EKV 12	35x160
DIN-rail	EKV 22	35x235
DIN-rail	EKV 32	35x335
DIN-rail	EKV 50	35x500
Self-cutting mounting screw	MSM PT 5x10	4.8x9.5





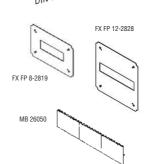
ORDER SYMBOL SIZE mm MS PROF 19 DIN frame profile 87 DIN frame profile MS PROF 28 166 DIN frame profile MS PROF 38 266 DIN frame profile MS PROF 56 444

Screws for DIN-rail (terminal) assembly order MSM PT 5x10





FX FP FRONT PLATES FX20 SET -CORNER STUDS Note! Openings for DIN-modules



Blue 2 mm PC front plate	FX FP 8-2819	280x190
Blue 2 mm PC front plate	FX FP 12-2828	280x280
Blue 2 mm PC front plate	FX FP 2*12-2838	280x380
Blue 2 mm PC front plate	FX FP 3*12-2856	280x560

ORDER SYMBOL

SIZE mm

SIZE mm

Cover plate (12 mod.) MB 26050

CORNER STUD FX 2000



Set of corner studs FX 2000 Corner stud FX 2000 (separate) Front plate screw FX 2000 PE/N brass bar Screws for mounting PE/N brass bar

FX20 SET MB 10791 MB 10792 10x6.5x187 MS BAR 2+18 MR 28005EU 40x18

ORDER SYMBOL



FURNISH

MB FP FRONT PLATES FOR MB 60MM BUS-BAR HOLDES



60 MM BUS-BAR

ORDER SYMBOL



Bus-bar support set incl. screws and support

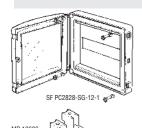
MB FP 5628

MB 60MM

For assembling to middle of the enclosure use screws KN4.8x13

RATED CURREN	T	250 A	400 A
Bus-bar sizes	L1, L2, L3	20 x 5 mm	20 x 10 mm
Duo bui 0,200	PE/N	15 x 5 mm	15 x 5 mm

SOLID FRAME COVERS



Solid Frame covers With opening $1x12\ mod.$ With opening 2x12 mod.

SIZE mm ORDER SYMBOL

SF PC2828-SG-12-1 280x280x54 SF PC2828-SG-12-2 280x280x54

35x235

SIZE mm

42

14

DIN-rail EKV 22

Note! SOLIDFRAME cover fits to EKOE and SOLID 2828 bases

Extension for DIN rail/mbc MB 10686 15/34

ORDER SYMBOL

FA 12052

FA 12053

SPACERS









M6 spacers, self-cutting for corners of the base $\ MR\ 10726$ 15 M6 spacers, self-cutting for corners of the base MR 10727 20 M6 spacers, self-cutting for corners of the base MR 10728 30 M6 spacers, self-cutting for corners of the base $\,$ MR 10729 $\,$

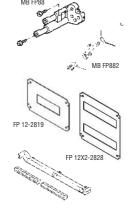






M5 spacers, self-cutting for middle mounting pods

FP FRONT PLATES FOR FB88 AND FP882 SPACERS



	ORDER SYMBOL	SIZE mm
Distance spacer for front plates, 1set, 2 pcs	MB FP88	88
Distance spacer for front plates, 1set, 2 pcs	MB FP882	88
FP front plate with DIN-openings FP front plate with DIN-openings FP front plate with DIN-openings	FP12-2819 FP12-2828 FP12x2-2828	280x190 280x280 280x280
FP front plate with DIN-openings FP front plate with DIN-openings FP front plate with DIN-openings	FP12x2-2838 FP12x3-2838 FP12x3-2856	280x380 280x380 280x560
N/PE-terminal bracket, incl. 2 pcs of MR 26100 terminals (16-holes)	MB 26069SET	
Terminal bus-bar clamp, 25 mm ² Terminal bus-bar clamp, 35 mm ²	MS BAR CLAMP MR 26145	



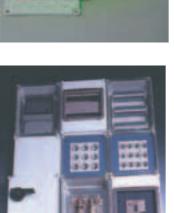






GLAD



























The plate connectors can be used to assemble flanges and bases



PLATES

	ORDER SYMBOL	SIZE
Cover plate	MB 10215	1
Cover plate	MB 10546	2
Cover plate	MB 10324	3
Cable gland plates, threads 4xPG 13,5 Cable gland plates, threads 4xPG 16 Cable gland plates, threads 3xPG 21 Cable gland plates, threads 1xPG 29 Cable gland plates, threads 4xM20*1.5	MB 10151 MB 10149 MB 10214 MB 10537 MB 10892	1 1 1 1
Cable gland plates, threads 12xPG 16 Cable gland plates, threads 12xPG 13,5 Cable gland plates, threads 6xPG 16+4xPG21 Cable gland plates, threads 4xPG 16+3xPG29 Cable gland plates, threads 4xPG 16+2xPG36 Cable gland plates, threads 12xM20*1.5	MB 10014 MB 10015 MB 10016 MB 10017 MB 10019 MB 10891	2 2 2 2 2 2
Knock-out plates 9xPG 11+5xPG9/16 Knock-out plates 4xPG 21/29 Knock-out plates 13xPG16 Knock-out plates 4xPG 11/21+7xPG16 Knock-out plates 4x 1/2" + 2x 3/4" +1x 3/4" / 1" Knock-out plates 4xM12+4xM12 / M20 + 4xM16/M25 Knock-out plates 8xM20+5xM25 / M16 Knock-out plates 2xM32 / M20 + 2xM40/M25	MB 10593 MB 10594 MB 10595 MB 10596 MB 10856 MB 10857 MB 10889 MB 10890	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Flange gasket 1	MK 10437	1
Flange gasket 2	MK 10438	2
Flange gasket 3	MK 10439	3
Flange gasket 1, for smooth side	MK 10440	1
Flange gasket 2, for smooth side	MK 10441	2
Connector set + 4 screws	MB 10671	1
Connector set + 4 screws	MB 10670	2
Connector set + 4 screws	MB 10672	3
Plastic screw, lock nut, flange gasket	EKZA 7	1
Plastic screw, lock nut, flange gasket	EKZA 8	2
Plastic screw, lock nut, flange gasket	EKZA 9	3
Plastic head screw for size 1 flange	MB 10345	M6x25
Plastic head screw for size 2 flange	MB 10346	M8x25
Plastic head screw for size 3	MB 10347	M10x30
Lock nut for plastic head screws	M6	M6
Lock nut for plastic head screws	M8	M8
Lock nut for plastic head screws	M10	M10

MEMBRANE FLANGE PLATE

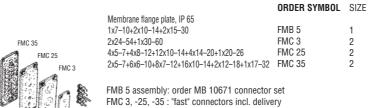


PLATE EXTENSION



Height of the extension 25 mm Mounting with four MB 10392 M8x50 plastic head screw

MB 10391 2 MB 10392

ORDER SYMBOL SIZE

2

2

2

WATER PLUG VENTILATOR

/>: (2)	MB 12189	MB 10631
	©	
B 10564 II	MB 10858 II	MB 10859

ORDER SYMBOL Water plug MB 12189 Pressure stabilizer, M12x1,5 MB 10894 Ventilation device MB 10631 Ventilation device, gasgeted, incl. screws MB 10564 II Grille/filter holder for MB 10564 II. Optional MB 10858 II Holder for 40 x 40 mm fan, incl. screws MB 10859 II



SIZE

2

1

2

SIZE MM

10-31

28-60

GLAD

CABLE ENTRY BOXES

0 MK 10426

MK 10428

ORDER SYMBOL

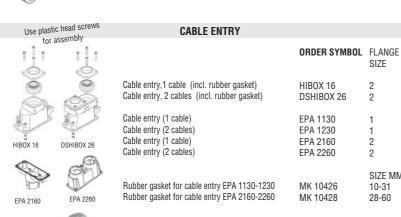
Including: base, cover, cover screws, 1 blind plug, MB 2260 1 pull-off, hose clamp with screws, membrane cable gland, and plate connector set.

MB 2260A

Accessory set Including: membrane cable gland, pull-off, and hose clamp with screws.





















CABLE GLANDS

	METRIC!	ORDER SYMBOL	FOR CABLE	METRIC SIZE	CLEARANCE HOLE Ø mm
	Metric Cable gland, PA	GPA M12 GPA M16	3-6 5-10	M12x1,5	12.5
	PA=cable glands in polyamide Grey RAL 7035 Temperature range -40° (-+100°)	GPA M16 GPA M20 GPA M25 GPA M32 GPA M40	8-13 11-17 15-21 19-28	M16x1,5 M20x1,5 M25x1,5 M32x1,5	16.5 20.5 25.5 32.5 40.5
	New metric dimensions EN 60423!	GPA M50 GPA M63	27-35 32-42	M40x1,5 M50x1,5 M63x1,5	50.5 60.5
(E)	Metric Hexagonal lock nut PA	GPA M12-B GPA M16-B		M12x1,5 M16x1,5	
	B=lock nuts for cable gland, polyamide	GPA M20-B GPA M25-B GPA M32-B GPA M40-B GPA M50-B GPA M63-B		M20x1,5 M25x1,5 M32x1,5 M40x1,5 M50x1,5 M63x1,5	
	Membrane cable glands EPDM	FEM 3-5	3-5	M12	12.5
30	IP 65 (EN 60529) Wall thickness (C) 1,5 -5 mm	FEM 5-7 FEM 7-10 FEM 10-14/23 FEM 10-14/25 FEM 14-20	5-7 7-10 10-14 10-14 14-20	M16 M20 M23/PG16 M25 M32	16.5 20.5 23.5 25.5 32.5
		FEM 20-26 FEM 26-35 FEM 30-45	20-26 26-35 30-45	M40 M50 M60	40.5 50.5 60.5
0000	Multifem	MFM 8-12	3x6-10, 3x10-14	M50	50,5
		ORDER SYMBOL	FOR CABLE	CLEARANCE H	OLE, PG
99	Membrane cable glands Flame resistance UL 96-V2 Grey RAL 7035 Temperature range -50°C-+70°C Fet 5-7 for cables 5-7 ø Fet 7-10 for cables 7-10 ø etc.	FET 5-7 FET 7-10 FET 8-14 FET 14-20 FET 20-26 FET 26-35	5-7 7-10 8-14 14-20 20-26 26-35	PG 9 PG 11 PG 16 PG 21 PG 29 PG 36	



Cover = EKH 30 T (G)



Cover = EKJ 30 T (G)



Cover = EKM 30 T (G)



Cover = EKO 30 G (T)



Cover = **EKP 30 T (G)**



Cover = EKP 30 T (G)



Cover = EKT 30 G (T)



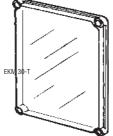
Cover = EKT 30 T (G)



Cover = EKW 100 G

ROOF

COVERS



Eight sizes of base and cover. Three depths for cover 30, 80, 100 mm. Note! (EKW only with grey colour) Note! Order cover screws against the cover height.



EK-covers (PC) G=grey cover RAL 7035 T=transparent cover Height 80 mm.

EK-covers (PC) G=grey cover RAL 7035 T=transparent cover Height 30 mm.

More space with extension frames

EK H 30-T	190x190x30
EK H 30-G	190x190x30
EK J 30-T	280x190x30
EK J 30-G	280x190x30
EK M 30-T	380x190x30
EK M 30-G	380x190x30
EK 0 30-T	280x280x30
EK 0 30-G	280x280x30
EK P 30-T	380x280x30
EK P 30-G	380x280x30
EK T 30-T	560x280x30
EK T 30-G	560x280x30
EK U 30-T	560x380x30
EK U 30-G	560x380x30
EK H 80-T	190x190x80
EK H 80-G	190x190x80
EK J 80-T	280x190x80
EK J 80-G	280x190x80
EK M 80-T	380x190x80
EK M 80-G	380x190x80
EK 0 80-T	280x280x80
EK 0 80-G	280x280x80
EK P 80-T	380x280x80
EK P 80-G	380x280x80
EK W 100-G	760x560x100

ORDER SYMBOL SIZE mm

HINGED COVER

FIBOX COVERS WITH READY ASSEMBLED FSH HINGES



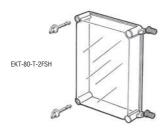
Low cover 30 mm. G=grey cover RAL 7035 T=transparent cover



High cover 80 mm. G=grey cover RAL 7035 T=transparent cover



ORDER SYMBOL	SIZE mm
EK H 30-G-2FSH	190x190x30
EK H 30-T-2FSH	190x190x30
EK J 30-G-FSH19	190x280x30
EK J 30-T-FSH19	190x280x30
EK J 30-G-2FSH	280x190x30
EK J 30-T-2FSH	280x190x30
EK M 30-G-2FSH	380x190x30
EK M 30-T-2FSH	380x190x30
EK 0 30-G-2FSH	280x280x30
EK 0 30-T-2FSH	280x280x30
EK P 30-G-2FSH	380x280x30
EK P 30-T-2FSH	380x280x30
EK T 30-G-3FSH	560x280x30
EKT 30-T-3FSH	560x280x30
EK U 30-G-3FSH	560x380x30
EK U 30-T-3FSH	560x380x30
EK H 80-G-2FSH	190x190x80
EK H 80-T-2FSH	190x190x80
EK J 80-G-2FSH	280x190x80
EK J 80-T-2FSH	280x190x80
EK M 80-G-2FSH	380x190x80
EK M 80-T-2FSH	380x190x80
EK 0 80-G-2FSH	280x280x80
EK 0 80-T-2FSH	280x280x80
EK P 80-G-2FSH	380x280x80
EK P 80-T-2FSH	380x280x80



HINGES, BLIND PLUG



MB 10523	

PC hinge set, 1 pair, incl. screws and drill template PA hinge set, 1 pair, incl. screws Template for MB 10547 in plastic Blind plug for cover corner on hinged side when cover screws are not used

ORDER SYMBOL	SIZE mm
MB 10622	30/80
MB 10547 PA 10547 MB 10523	30/80

ROOF

COVERS SCREWS

		ORDER SYMBOL	FOR COVERS
P -	-Wing head screw	HS 10255	30
3	– Slotted head screw, sealable	SS 10535	30
8	Triangle head screw	DS 10581	30/80/100
W	-Cross head screw	CS 10256	30/100
1	Slotted head screw, quick-lock, *)	SS 10544	30/100
1 0	Wing head screw, quick-lock, *)	HS 10533	30
W /	Quick-locking wing head screw, hinged, *)	HS 10532	30
63			
D B	 -*) Threaded bushing *) Threaded bushing (needed for quick-locking screws) 	MB 10534	
//	- Cross head screw	SS 10563	80
8/9	- Wing head screw	HS 10562	80
Car.			
29	- Noryl slotted head screw(good chemical resistance)	SS 10256N	30
3 m	- Noryl wing head screw (good chemical resistance)	HS 10255N	30
20	Set of four cross head screws	SS 10256-4	30/100
	Set of six cross head screws	SS 10256-6	30/100
	Set of four cross head screws	SS 10563-4	80

SOLID FRAME



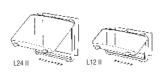
KEY-LOCK SET



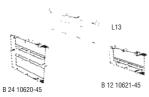
Key-lock set incl., lock and 2 keys MB 1059 for 30 mm covers

INSPECTION WINDOWS

The order symbol indicates the amount of the DIN modules for exsample L08=8 modules.









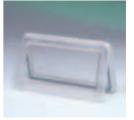
	ORDER SYMBOL	SIZE mm
Windows, IP 65	L12 II	248x128
Windows, IP 65	L24 II	248x128
Windows, IP 65	L12	248x128
Windows, IP 65	L24	248x128
Windows, IP 65	L13	257x108
Windows, IP 54	L10	199x77
Windows, IP 54	L08	162x77
Windows, IP 54	L06	130x77
Windows, IP 54	L04	96x77
Windows, IP 54	L02	60x77

ORDER SYMBOL

Front plates for L 12 windows B12 10621-45 Front plates for L 24 windows B24 10620-45

 Large size windows, IP 65,
 L44 II
 377x331

 for enclosure EKW 100-G
 L43 II
 331x277



L 12 clear



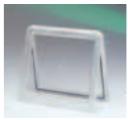
L 12 II transparent smoked grey



L 13 clear



SOLID FRAME application



L 24 clear

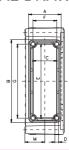


L 44 II transparent smoked grey

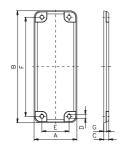


L 43 II transparent smoked grey

DIMENSIONAL DRAWINGS



FLANGE OPENINGS									
Plate size		Dimensions							
	Α	В	С	D	Е	F	G	M	
1	48	138	33	7	121	30	120	31	
2	86	217	63	9,5	195	62	193	52	
3	127	332	101	11,5	306	80	292	71	



COVER PLAT	ES								
Order symbol	Plate size			[Dimensio	ns			
		А	В	С	D	Е	F	G	
MB 10215	1	49	140,5	10	7	30	120	5	
MB 10546	2	85	217	10	9,5	62	193	5	
MB 10324	3	127	332	15	11,5	80	292	8	

TECHNICAL INFORMATION

PROPERTY		POLYCARBONATE (PC)	CONFORMITY TO STANDARDS		
Ingress Protection		IP66/IP67	USA Enclosures for Electrical Equipment		
(EN 60529)			PC: UL Type 1, 3, 3S, 4, 4X, 6, 6P and 12 (UL 50/508)		
Impact Resistance		IK 08	Canada Industrial Control Equipment		
(EN 50102)			Enclosures for Electrical Equipment/ULc		
Temperature Range	Celsius	-40°120°C	Europe Enclosures for Switch Gear and Control Gear Assemblies		
(short term)	Fahrenheit	-40°250°F	EN 50298:1998		
Temperature Range	Celsius	-40°80°C	Europe Safety of Information Technology Equipment		
(continuous)	Fahrenheit	-40°175°F	EN 60950		
Electrical Insulation		Totally insulated	Australia Enclosures for switch gear and control gear		
			AS 3132-1991		
Light Grey Parts Colo	ur	RAL 7035	DNV PC: DNV Rules for Classification of Ships and Mobile		
		Industry Grey	Offshore Units		
Transparent Clear PC	Cover	Clear Transparent	GL PC: GL Regulations for the Performance of Type Test, Part 1		
Cover Screws		RAL 7035			
Cover Screws		Polyamide (PA)	LR Marine offshore and industrial installations		
Gasket		PUR	BV BV Rules		
Enclosure Flammabili	ty Rating	UL94-5V	UL 746 C 5 in. vertical flame test		
Glow Wire Test		960°C	IEC 695-2-1, Self-extinguishing		
Non-toxicity		Halogen Free	DIN/VDE 0472, Part 815		
UV resistance		UL 508	CE, FI-mark		
		720 hours in "Weatherometer"			
Chemical Resistance	*	Good			

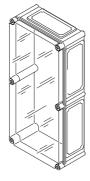
Data subject to change without notice. *Consult separate raw material data for more detailed information

NEW!

EK enclosure sets

Some most popular EK sizes are now available as complete enclosures with just one order symbol.

Sets include base, cover and cover screws. Naturaly same wide SOLID/EK accessory range allows you to customise these "easy-to-order" sets to your needs.



EKTH 130 T

ORDER SYMBOL	SIZE mm	
EKHA 130 G EKJB 130 G EKMB 130 G EKOE 130 G EKPE 130 G EKTH 130 G EKUH 180 G EKWH 250 G	190x190x130 280x190x130 380x190x130 280x280x130 380x280x130 560x280x130 560x380x180 760x560x250	
EKHA 130 T EKJB 130 T EKMB 130 T EKOE 130 T EKPE 130 T EKTH 130 T EKUH 180 T	190x190x130 280x190x130 380x190x130 280x280x130 380x280x130 560x280x130 560x280x130	

F BOX CAFQUICK







FIBOX CAB PC/ABS wall mounting cabinets are manufactured using high impact resistant polycarbonate or ABS material, withstanding harsh, hostile industrial environments. The FIBOX QUICK lock system allows easy access to the enclosure, while still ensuring tight sealing. The enclosure is rated EN 60529 IP66/IP67.

The cabinet base features numerous internal mounting pods, allowing ease in component assembly and installation. FIBOX CAB PC/ABS (hinged one), FIBOX QUICK PC/ABS (screw cover). Transparent "smoked grey" cover options allows easy viewing of installed control equipment and indicators.

CAB ENCLOSURE WITH KEY LOCKS			Including: Cabinet base lock(s) with key, hinges	, door with EPDM gasket, 3 mm double bit , mounting plate screws, and corner plugs.	ВХА
PC: IP 65, IK 08	Z	С	ORDER SYMBOL	ORDER SYMBOL	LXS
ABS: IP 65, IK 08	mm	mm	Grey door 3 mm double bit key	Smoked transparent cover 3 mm double bit key	mm
CAB PC/ABS 302018 G3B CAB PC/ABS 302018 T3B Y X X 300 mm 200 mm	180 180	168 168	CAB PC 302018 G3B CAB ABS 302018 G3B	CAB PC 302018 T3B CAB ABS 302018 T3B	B x A 260 x 160 L x S 272 x 172
CAB PC/ABS 303018 G3B CAB PC/ABS 303018 T3B Y X X 300 mm 300 mm	180 180	168 168	CAB PC 303018 G3B CAB ABS 303018 G3B	CAB PC 303018 T3B CAB ABS 303018 T3B	B x A 260 x 260 L x S 272 X 272
CAB PC/ABS 403018 G3B CAB PC/ABS 403018 T3B Y X X 400 mm 300 mm	180 180	167 167	CAB PC 403018 G3B CAB ABS 403018 G3B	CAB PC 403018 T3B CAB ABS 403018 T3B	B x A 260 x 360 L x S 372 x 272
CAB PC/ABS 504020 G3B CAB PC/ABS 504020 T3B Y X X 500 mm 400 mm	200 200	185 185	CAB PC 504020 G3B CAB ABS 504020 G3B	CAB PC 504020 T3B CAB ABS 504020 T3B	B x A 360 x 460 L x S 472 x 372
CAB PC/ABS 604022 G3B CAB PC/ABS 604022 T3B Y X X 600 mm 400 mm	220 220	207 207	CAB PC 604022 G3B CAB ABS 604022 G3B	CAB PC 604022 T3B CAB ABS 604022 T3B	B x A 360 x 560 L x S 572 x 372























CAB ENCLOSURE WITH LATCHES			Including: Cabinet base mounting plate screws,	, door with EPDM gasket, hinges, latches, and corner plugs.	ВХА
PC: IP 65, IK 08	Z	С	ORDER SYMBOL	ORDER SYMBOL	LXS
ABS: IP 65, IK 08	mm	mm	Grey door Hinges on short sides	Smoked transparent cover Hinges on long side	mm
CAB PC/ABS 203018 CAB PC/ABS 302018 Y X X 300 mm 200 mm	180 180 180 180	168 168 168 168	CAB PC 203018 G CAB PC 203018 T CAB ABS 203018 G CAB ABS 203018 T	CAB PC 302018 G CAB PC 302018 T CAB ABS 302018 G CAB ABS 302018 T	B x A 260 x 160 L x S 272 x 172
CAB PC/ABS 303018 Y X X 300 mm 300 mm	180 180 180 180	168 168 168 168	CAB PC 303018 G CAB PC 303018 T CAB ABS 303018 G CAB ABS 303018 T		B x A 260 x 260 L x S 272 X 272
CAB PC/ABS 304018 CAB PC/ABS 403018 Y X X 400 mm 300 mm	180 180 180 180	167 167 167 167	CAB PC 304018 G CAB PC 304018 T CAB ABS 304018 G CAB ABS 304018 T	CAB PC 403018 G CAB PC 403018 T CAB ABS 403018 G CAB ABS 403018 T	B x A 260 x 360 L x S 372 x 272
CAB PC/ABS 405020 CAB PC/ABS 504020 Y X X 500 mm 400 mm	200 200 200 200 200	185 185 185 185	CAB PC 405020 G CAB PC 405020 T CAB ABS 405020 G CAB ABS 405020 T	CAB PC 504020 G CAB PC 504020 T CAB ABS 504020 G CAB ABS 504020 T	B x A 360 x 460 L x S 472 x 372
CAB PC/ABS 604022 Y X X 600 mm 400 mm	220 220 220 220 220	207 207 207 207		CAB PC 604022 G CAB PC 604022 T CAB ABS 604022 G CAB ABS 604022 T	B x A 560 x 360 L x S 572 x 372













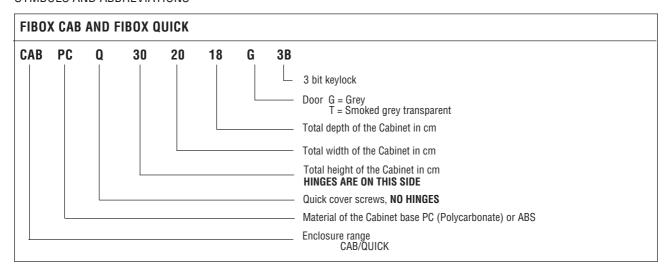


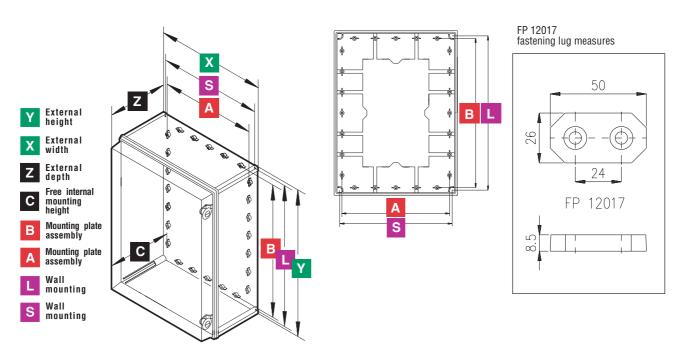






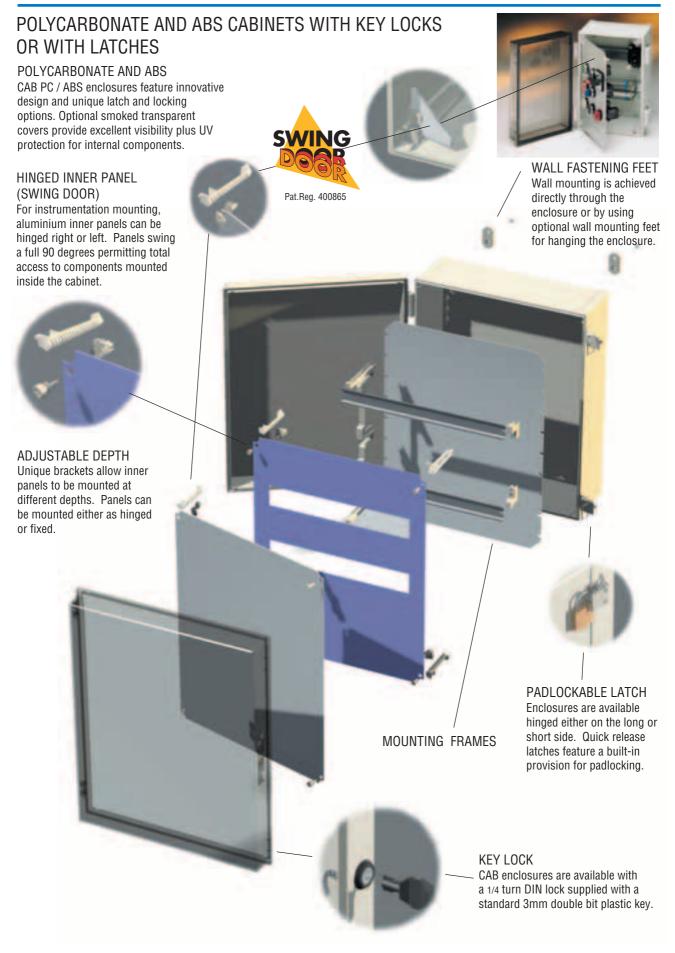
SYMBOLS AND ABBREVIATIONS





TECHNICAL INFORMATION FOR CAB ENCLOSURES

PROPERTY		POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection		IP65	IP65	USA Enclosures for Electrical Equipment
(EN 60529)				PC: UL Type 1, 4, 4X, 12 and 13 (UL 50/508)
				ABS: NEMA 1, 4, 4X, 12 and 13
Impact Resistance		IK 08	IK 08	Canada Industrial Control Equipment
(EN 50102)				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 Colou	ır	RAL 7035	RAL 7035	
		Industry Grey	Industry Grey	
Transparent Clear PC (Cover	Smoked Grey	Smoked Grey	
Hinges and Latches (P	C)	RAL 7035	RAL 7035	
Gasket		PUR/EPDM	PUR/EPDM	
Enclosure Flammability	y 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	UV resistance			
		720 hours in "Weatherometer"		
Chemical Resistance *		Good	Good	



FIBOX QUICK

FIBOX QUICK			Including: Enclosure b	ase, cover, screws 4x CS12137, and mounting	
PC AND ABS ENCLOSURE PC and ABS: IP 66/IP 67, IK 08			screws. ORDER SYMBOL	ORDER SYMBOL	B X A
	Z	C mm	Grey cover	Smoked transparent cover	L X S
CAB PCQ 23 CAB ABSQ 23	170 170	158 158	CAB PCQ 302017 G CAB ABSQ 302017 G	CAB PCQ 302017 T CAB ABSQ 302017 T	B x A 260 x 160 L x S
300 200 mm mm					272 x 172
CAB PCQ 33 CAB ABSQ 33	170 170	158 158	CAB PCQ 303017 G CAB ABSQ 303017 G	CAB PCQ 303017 T CAB ABSQ 303017 T	B x A 260 x 260
300 300 mm mm					L x S 272 X 272
CAB PCQ 43 CAB ABSQ 43	170 170	158 158	CAB PCQ 403017 G CAB ABSQ 403017 G	CAB PCQ 403017 T CAB ABSQ 403017T	B x A 360 x 260
400 300 mm mm	230 230	218 218	CAB PCQ 403023 G CAB ABSQ 403023 G	CAB PCQ 403023 T CAB ABSQ 403023 T	L x S 372 x 272
CAB PCQ 44 CAB ABSQ 44	170 170	158 158	CAB PCQ 404017 G CAB ABSQ 404017 G	CAB PCQ 404017 T CAB ABSQ 404017 T	B x A 360 x 360
400 400 mm	+100	+100	EKI EXT 44 Extension frame for multi-times additional 100 mm	EKI EXT 44	L x S 372 x 372
CAB PCQ 63	170	158	CAB PCQ 603017 G	CAB PCQ 603017 T	B x A 560 x 260
Y X X 600 300 mm mm					L x S 572 x 272
CAB PCQ 64 CAB ABSQ 64	210 210	198 198	CAB PCQ 604021 G CAB ABSQ 604021 G	CAB PCQ 604021 T CAB ABSQ 604021 T	B x A 560 x 360
600 400 mm mm	270 270	258 258	CAB PCQ 604027 G CAB ABSQ 604027 G	CAB PCQ 604027 T CAB ABSQ 604027 T	L x S 572 x 372





















FIBOX QUICK

FIBOX QUICK – QUICK TURN COVER SCREW

SWING

HINGED INNER PANEL (SWING DOOR)

For instrumentation mounting, aluminium and insulated plastic inner panels can be hinged right or left. Panels swing a full 90 degrees permitting total access to components mounted inside the cabinet.

ADJUSTABLE DEPTH Unique brackets allow panels to be mounted at different depths. Panels can be mounted either as

hinged or fixed.

NEW DESIGN WITH STYLE

- Increased wall thickness adds strength and rigidity
- Smoked grey transparent cover provides excellent
- More flexibility
 More flexibility in component mounting with large number of mounting pods
 Lower weight when compared with fibreglass or metal
- Smooth surfaces for nomenclature, decals and overlays

QUICK LOCK SCREWS Quarter turn screws have optional head designs.



Internal mounting options include metal mounting plates, plastic front plates, DIN rail assemblies and variable depth spacers.

ACCESSORIES TO CUSTOMISE YOUR **APPLICATION**

- · Quick turn cover screws feature alternative screw heads: slotted, wing, blind and Phillips.
- Unique corner brackets permit variable depth mounting of front plates, DIN rail frames and mounting plates
 Corner hinge brackets permit inner swing panel to open 90 degrees.
- Wall mounting may be done directly through the rear of an enclosure. Sealing plugs maintain the NEMA rating. Alternatively, optional wall mounting feet may be added using the brass mounting inserts on the rear of the enclosure.
- Inspection windows provide access to components, yet maintain IP ratings.



Pat.Reg. 400865

SPACE AND MORE SPACE

Unique corner pod design leaves maximum mounting space without limiting accessories.

Moulded in place, perimeter gasket allows full enclosure base opening (no door return to reduce opening.)

Depth increase with enclosure size. Two optional 100mm high covers increase overall

FIBOX SPACE LINK

FIBOX SPACE LINK			Please order separately (see page 60), for EKI 6	: Enclosure base, cover and screws QUICK SET. 3 and EKI 64, 2 x QUICK SET.	ВХА
10.11 00	Z	С	ORDER SYMBOL	ORDER SYMBOL	L X S
	mm	mm	Grey cover	Smoked transparent cover	mm
EKI 23			Base:	Base:	BxA
			EKI 23-2 EKI 23-4	EKI 23-2 EKI 23-4	260 x 160
Y X X			Cover:		LxS
200 300 mm mm	170	158	EKI 23/40G	Cover: EKI 23/40T	272 x 172
EKI 33			Base:	Base:	ВхА
			EKI 33-2 EKI 33-4	EKI 33-2 EKI 33-4	260 x 260
Y X X			Cover:	Cover:	LxS
300 300 mm mm	170	158	EKI 33/40G	EKI 33/40T	272 X 272
EKI 43			Base:	Base:	BxA
Y X X			EKI 43-5A EKI 43-4	EKI 43-5A EKI 43-4	360 x 260
400 300			Cover:	Cover:	LxS
mm mm	170	158	EKI 43/40G	EKI 43/40T	372 x 272
	230	218	EKI 43/100G	EKI 43/100T	
EKI 44			Base:	Base:	BxA
V V V			EKI 44-4	44-4	360 x 360
Y X X 400 400	170	158	Cover: EKI 44/40G	Cover: EKI 44/40T	
mm mm	+100	+100	EKI EXT 44	EKI EXT 44	L x S 372 x 372
			Extension frame adds 100 mm depth, use many. See page 64.		OIZ X OIZ
EKI 63			Base:	Base:	
EN 60			EKI 63-6	EKI 63-6	B x A 560 x 260
YXX					1 0
600 300 mm mm	170	158	Cover: EKI 63/40G	Cover: EKI 63/40T	L x S 572 x 272
		100	EN 00/400	EKI 05/401	
J. Carlotte					
EKI 64			Base: EKI 64H - 4EPA	Base: EKI 64H - 4EPA	B x A 560 x 360
Y X X			EKI 64H - 6	EKI 64H - 6	JUU X 30U
600 400			Cover:	Cover:	L x S
mm mm	210	198	EKI 64/40G	EKI 64/40T	572 x 372
	270	258	EKI 64/100G	EKI 64/100T	



















FIBOX SPACE LINK

FIBOX SPACE LINK - LARGE FLANGE OPENINGS FOR EASY ASSEMBLY

COMPREHENSIVE ASSEMBLY SYSTEM

- New quick-link system plus a more rugged flange opening design making it easier to connect enclosure assemblies together.
- Flange support system works with popular bus bar systems (ABB, Wohner, Weber, etc.) designed for 5 x 20 and 10 x 30 mm copper bars.
- New DIN rail frames ease DIN module mounting and feature front plate corner brackets.
- Inspection windows with standard DIN 17.5/45 mm openings. New sizes include 377 x 331 mm and 331 x 277 mm.

EXTENSION FRAMES

Available in 400 x 400 mm and when stacked create additional depth in 100mm increments., for example, 170mm, 270mm, 370mm, etc.

QUICK-LINK SYSTEM

Assembly of the enclosures faster than ever.



60 MM BUS-BAR SYSTEM



ACCESSORIES TO CUSTOMIZE YOUR APPLICATION

- Quick turn cover screws feature alternative screw heads: slotted, wing, blind and Phillips.
- Unique corner brackets permit variable depth mounting of front plates, DIN rail frames and mounting plates
- · Corner hinge brackets permit inner swing panel to open 90 degrees.
- Wall mounting may be done directly through rear of enclosure. Sealing plugs maintain the NEMA rating. Alternatively, optional wall mounting feet may be added using the brass mounting inserts on the rear of the enclosure.
- Inspection widows provide access to components, while maintaining NEMA ratings.
- · Hinges, spacers, ventilators, etc.
- Flange plates with knockouts or blank.
- · Variety of cable glands, strain relief and conduit fittings.

MOUNTING RAILS AND **PLATES**

Pat.Reg. 400865

Internal mounting options include metal mounting panels, blue polycarbonate front plates, DIN rail assemblies with variable depth spacers.

SNAP-IN

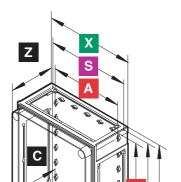
SYSTEM

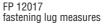
Fastest way to assemble the flanges.

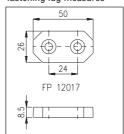
FIBOX SPACE LINK

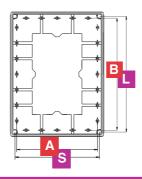
SYMBOLS AND ABBREVIATIONS

- External height
- External
- External
- Free internal mounting C height
- Mounting plate assembly
- Mounting plate assembly
- Wall mounting
- Wall mounting









QUICK SET

Screw set for Space Link and Quick includes:

- 4 x CS 12137 cover screws head, blue 4 x MSM PT 5x10 mounting plate screw
- 4 x SP 12087 internal corner plug, red
- (4 x)CS 12137
- (4 x)MSM PT 5x10
- SP 12087

Please order one QUICK SET for each SPACE LINK enclosure except 2 for EKI 63 and EKI 64.

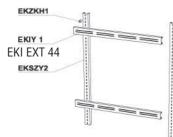
ASSEMBLY OF SPACE LINK ENCLOSURES

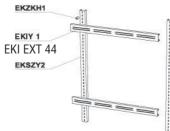
400 600 900

POLYCARBONATE FLANGES

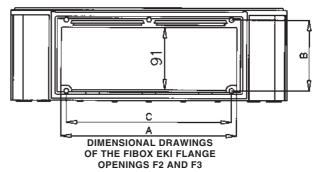
Ordering symbol	Size	Openings
F3/12014	F3	no opening
F3/12022	F3	12xPg16/9 + 7xPg16
F3/12088	F3	4xPg36/29 + 4xPg16
F3/12028	F3	4xPg21 + 9xPg16
		= for plate size 2 in EK range
F3/12187	F3	6 x M20/M25, 4 x M25/M32
F3/12023	F3	C-opening (SFS)
F3/EPA	F3/EPA	C-opening (SFS)
		incl. MB 12288 plate +
		2xFA 12114
F2/12015	F2	no opening
F2/12042	F2	6xPg16/9 + 5xPg16
F2/12041	F2	4xPg16 + 3xPg21
F2/12089	F2	4xPg 16+3xPg 29
F2/12069	F2	2xPg 36+1xPg 16

EXTENSION FRAME In size 400 x 400 mm allow unlimited depth 170mm, 270mm, 370mm 470 mm etc...









TYPE	Α	В	С
F2	155	102	140
F3	255	102	240



TECHNICAL INFORMATION FOR SPACE LINK ENCLOSURES

PROPERTY	POLYCARBONATE (PC)	CONFORMITY TO STANDARDS
Ingress Protection	IP65	USA Enclosures for Electrical Equipment
(EN 60529)		PC: UL Type 1, 3R (UL 50/508)
		NEMA 1, 4, 4X, 12 and 13
Impact Resistance	IK 08	Canada Industrial Control Equipment
(EN 50102)		Enclosures for Electrical Equipment/ULc
Temperature Range Celsius	-40°120°C	Europe Enclosures for Switch Gear and Control Gear Assemblies
(short term) Fahrenheit		EN 50298:1998
Temperature Range Celsius	-40°80°C	Europe Safety of Information Technology Equipment
(continuous) Fahrenheit		EN 60950
Electrical Insulation	Totally insulated	Australia Enclosures for switch gear and control gear
		AS 3132-1991
Light Grey Parts Color	RAL 7035	
	Industry Grey	
Transparent Clear PC Cover	Smoked Grey	
Screws Head CS (PC)	RAL 5023 Blue	
Gasket	PUR/EPDM	
Enclosure Flammability Rating	UL94-5V	UL 746 C 5 in. vertical flame test
Glow Wire Test	960°C	IEC 695-2-1, Self-extinguishing
Non-toxicity	Halogen Free	DIN/VDE 0472, Part 815
UV resistance	UL 508	
	720 hours in "Weatherometer"	
Chemical Resistance *	Good	

TECHNICAL INFORMATION FOR QUICK ENCLOSURES

PROPERTY		POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS
Ingress Protection		IP 66/IP67	IP 66/IP67	USA Enclosures for Electrical Equipment
(EN 60529)				PC: UL Type 1, 3R (UL 50/508)
,				NEMA 1, 4, 4X, 12 and 13
Impact Resistance		IK 08	IK 08	Canada Industrial Control Equipment
(EN 50102)				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 Colo	r	RAL 7035	RAL 7035	
		Industry Grey	Industry Grey	
Transparent Clear PC	Cover	Smoked Grey	Smoked Grey	
Screws Head CS (PC)		RAL 5023 Blue	RAL 5023 Blue	
Gasket		PUR/EPDM	PUR/EPDM	
Enclosure Flammabilit	y 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	DIN/VDE 0472, Part 815
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 FOR CAB -, QUICK AND SPACE LINK ENCLOSURES

Product	Order symbol	Size mm	
Swing door/ front plates (aluminium)	FP A 23 FP A 33 FP A 43 FP A 44 FP A 54 FP A 63 FP A 64	168x268 268x268 368x268 368x368 468x368 568x268 568x368	
) Use with FP 12190	FP 12-23 FP 12-33 FP 12x2-33 FP 12x2-43 FP 12x2-43 FP FP 12x3-43 FP 18x2-54 FP 12x3-63 FP 18x3-64	178 x 278 278 x 278 278 x 278 278 x 278 378 x 278 378 x 278 378 x 278 478 x 378 578 x 378 578 x 378	
Front plates, black (ABS)	FP 23 FP 33 FP 43 FP 44 FP 54 FP 63 FP 64	268 x 176 276 x 268 376 x 268 376 x 368 476 x 368 576 x 268 576 x 368	

Product	Order symbol	Size mm	
) Swing door kit for front plates and swing door	MB 12225 AL)		*) Use with FP A front plates
DIN rail frame Incl. A pair of metal profile bar and mounting screws and front plate holders	DRF 23 DRF 33 DRF 43/44 DRF 54 DRF 63/64	170 270 370 470 570	
DIN-rails/Banks DIN 35 DRF + EKIV =	EKIV 17 EKIV 27 EKIV 37 EKIV 47	166 266 366 466	
Mounting plates (Zinc plates metal)	EKIV 23 EKIV 33 EKIV 43 EKIV 44 EKIV 54 EKIV 63 EKIV 64	170 x 270 270 x 270 370 x 270 370 x 370 470 x 370 570 x 270 570 x 370	



ACCESSORIES FOR CAB - AND QUICK ENCLOSURES

Product	Order symbol	Size mm	
Inspection windows	L44 II	377 x 331	
	L43 II	331 x 277	
L44 II	L24 II	248 x 218	
L43II	L12 II	248 x 128	
	L24	248 x 218	
L24 II	L12	248 x 128	
**************************************	L13	257 x 108	
L12 II	L10		
L 24 L 12	L08	199 x 77	
	L06	162 x 77	
L 13		130 x 77	
	L04	96 x 77	
L02-L10	L02	60 x 77	
Front plates for windows L12 and L24	B12 10621-45 B24 10620-45	12 modules 24 modules 1 module = 17,5 mm	
Cover screws			
heads	CS 12137		
	SS 12136		
Grey Grey	HS 12112		
Ç, Grey	BS 12138		
Hinge set Only to CAB	MB CH SET		
Latch set Only to CAB	MB CL SET		
Hinge set Only to QUICK	PAT 12040		
Wall fastening lug	FP 12017		
10g			
Set of four, incl screws M6x10			
Corner plug	SP 12087		
4			
Key Key	MB 12235		
DIN rail support	FP 12190		
Spacers	FA 12053 FA 12052 MB 10686 set		
Mounting screws	MSM PT 5x10		
Ventilation device	MB 10564 II MB 10631		
Water plug	MB 12189		
Pole mount set	PM 60 PM 120		

Product	Order symbol	
Bush-bar support flange .	BBSF	
Support flanges	F2/12291 F3/12290	
PE bus-bar, DIN-rail clip-on, blue	MS BAR 7 B	
N bus-bar, DIN-rail clip-on, green/yellow	MS BAR 7 GY	
Terminal support, DIN-rail clip-on	MS TS	
Mounting screw for MS TS. Order separately.	KN 2.9x9.5	
PE/N terminal bus-bar 25+ 10 mm ²	MS BAR 2+18	
PE/N terminal bus-bar 35+ 10 mm ²	MS BAR 3+24	
PE/N terminal bus-bar 10 mm ²	MS BAR 96	
Terminal bus-bar clamp, 25 mm²	MS BAR CLAMP	
Terminal bus-bar clamp, 35 mm ²	MR 26145	

Cable entry direct mount to flange opening

Product	Order symbol	Size mm	
For F3-size flange open.	F3/12101	2 x 30-60 mm cables	
For F2-size flange open.	F2/12102	1x 30-60 mm cables	
Connect. kit	MB F3F2	For F2/12101 and F3/12101	
Cable gasket	MK 10428	28-60 mm cables	

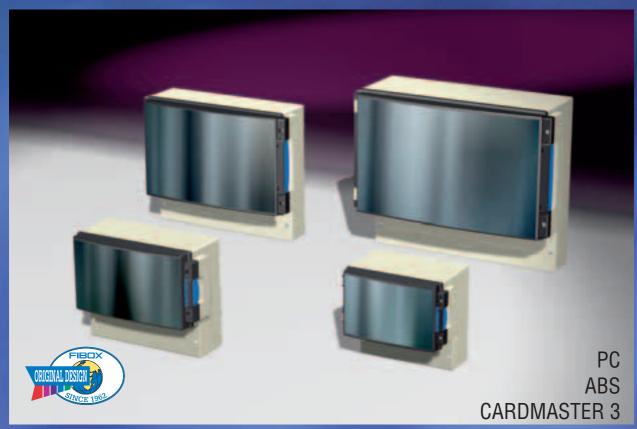
Cable entry with cable gasket for gland plate F3/EPA

Product	Order symbol	Size mm	
Cable entry with cable gasket	HIBOX 16	1 x 37-62 mm cables	
Cable entry with two cable gasket	DSHIBOX 26	2 x 37-62 mm cables	
Cable entry kit	F3/EPA	Connecting HIBOX/DSHIBOX to EKI bases	

Cable entry for gland plate F3/EPA

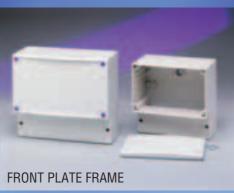
Product	Order symbol	Size mm	
Cable entry Cable entry	EPA 2160 EPA 2260	1 x 28-60 mm 2 x 28-60 mm	
Connector set	MB 10670	Size 2 flange opening	
Gland plate gasket	MK 10438	Size 2 flange opening	
Cable gasket	MK 10428	28-60 mm cables	

EARDMASTER









A new generation of FIBOX CARDMASTER enclosures, featuring improved design and colours, is available in polycarbonate and ABS. Designed for use with modular components, the FIBOX CARDMASTER 3 range is ideal for packaging instrumentation, measurement, monitoring and process control equipment.

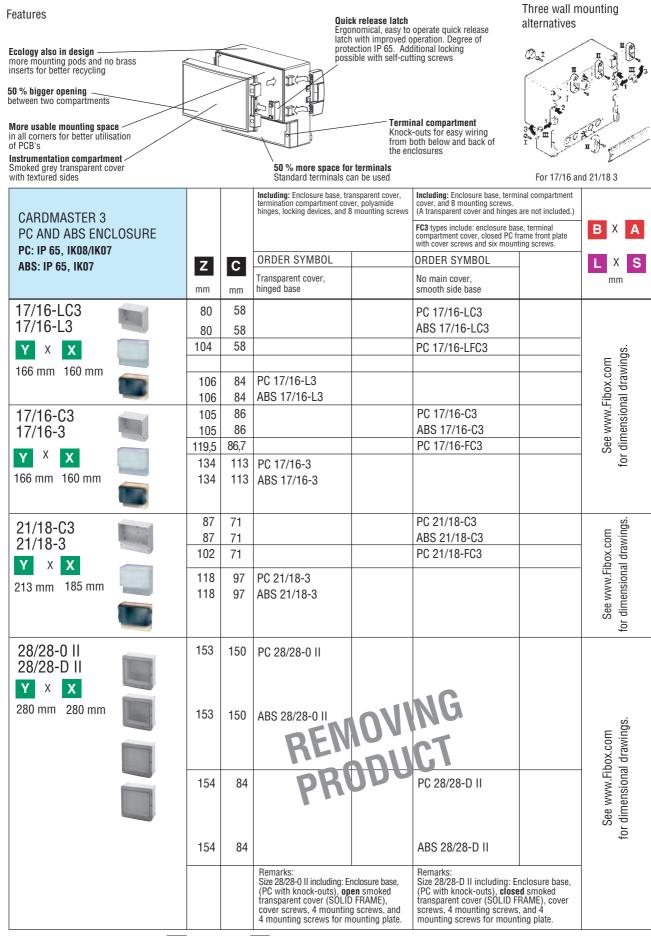
The enclosure has built in PCB card guides and a separate terminal wiring compartment.

Hinged transparent covers have quick release latches.

All sizes available in either impact resistant polycarbonate or ABS.

New accessory front plate frame also available.

FIBOX CARDMASTER 3















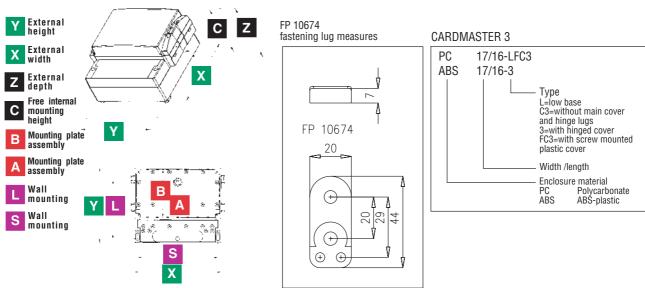






FIBOX CARDMASTER 3

SYMBOLS AND ABBREVIATIONS



CARDMASTER PC AND ABS ENCLOSURE			Including: Enclosure base, transpart termination compartment cover, pol hinges, locking devices, and 6 mounting screws	ent cover, lyamide Including: Enclosure base, termination compartment cover, front plate, and 6 mounting screws	B X A
PC: IP 65, IK08/IK07	Z	С	ORDER SYMBOL	ORDER SYMBOL	L X S
ABS: IP 65, IK07	mm	mm	Transparent cover	No main cover	mm
21/18-1 Y x x	113	91	PC 21/18-3 USA		See www.Fibox.com for dimensional drawings.
185 mm 213 mm					ww.Fit
Remarks: USA: Incl. FP 21/18 and PC with 3 x 0.85" knock-outs.					See ww for dimen
30/25-3 30/25-C3	123 123 123	103 103 103	PC 30/25-3 ABS 30/25-3 PC 30/25-3 USA		oox.com I drawings.
Y X X 256 mm 296 mm	92 92	68 68		PC 30/25-C3 ABS 30/25-C3	See www.Fibox.com
USA: Incl. FP 30/25 and PC with 5 x 0.85" knock-outs.					
36/31-3 36/31-C3	162 162 162	139 139 139	PC 36/31-3 ABS 36/31-3 PC 36/31-3 USA		lbox.com al drawings.
X X 316 mm 363 mm	130 130	105 105		PC 36/31-C3 ABS 36/31-C3	See www.Fibox.com for dimensional drawings.
USA: Incl. FP 36/31 and PC with 2 x 0.85" and 2 x 1.09" knock-outs.					

FIBOX CARDMASTER

TECHNICAL INFORMATION FOR CARDMASTER 3

PROPERTY		POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection		IP65	IP65	USA Enclosures for Electrical Equipment
(EN 60529)				PC: UL Type 1 and 12K (UL 50/508)
				PC/ABS: NEMA 1, 4, 4X, 6, 12 and 13
Impact Resistance		IK 08/IK 07	IK 07	Canada Industrial Control Equipment
(EN 50102)				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 Color	ur	RAL 7035	RAL 7035	
		Industry Grey	Industry Grey	
Transparent Clear PC	Cover	Smoked Grey	Smoked Grey	
Latches (PA)		RAL 5023 Blue	RAL 5023 Blue	
Gasket		PUR/EPDM	PUR/EPDM	
Enclosure Flammabilit	y 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/size	Order symbol	Size mm	
Front plate	FP 17/16 FP 21/18 FP 28/28 FP 30/25 FP 36/31	160 x 100 207 x 119 254 x 254 290 x 190 351 x 225	
Back panels	MP 17/16 MP 21/18 MP 30/25 MP 36/31	136 x 133 200 x 142 282 x 215 345 x 258	
Cover	CM 17/16-3T CM 21/18-3T CM 30/25-3T CM 36/31-3T	166 x 106 x 29 213 x 125 x 30 296 x 196 x 36 363 x 271 x 36	
Wall mounting lug 17/16-21/18	FP 10674		

Product/size	Order symbol	Size mm	
Set of hinges & latches	SET 17/16-21/18-3 SET 30/25-3 SET 36/31-3		
DIN-rail support	MB 20064 SET		
Frame front plate, closed IP 65	FC PC 17/16 FC PC 21/18	160 x 100 203 x 115	









Fibox EX enclosures are made for use in hazardous areas. They are designed, tested and manufactured to international standards. The certificates are issued by the manufacturer under licence from a test authority.

All certified products are labelled clearly in compliance with the certification.

An enclosure with Component Certification will achieve the specified degree of safety in use when selected, assembled and installed correctly. The Component Certification establishes the acceptability of the empty enclosure for use as a component part of equipment which is certified by a Certificate of Conformity. Only equipment with a Certificate of Conformity should be installed in hazardous areas.

FIBOX ALX

FIBOX ALX ALUMINIUM ENCLOSURE			Including: Enclosure ba	se, cover,	cover screws, m	nounting screws, earth screws and earth terminal.
At least IP 54, IK 08	Υ	X	ORDER SYMBOL	Z	С	
	mm	mm	Grey cover	mm	mm	ACCESSORIES
	50	45	ALX 050503	32	20	Order symbol Size mm
	60	66	ALX 060605	46	35	Mounting plate AM 0808 69 x 64 AM 0813 69 x 114 AM 0818 69 x 164 AM 0825 69 x 240
	100	66	ALX 061005	46	35	AM 1212 107 x 110 AM 1222 107 x 207 AM 1236 107 x 347
- Vag	152	65	ALX 061505	46	35	AM 1616 146 x 146 AM 1626 146 x 244 AM 1636 146 x 346 AM 1656 146 x 545
FIBOX ALX aluminium enclosures for housing terminal blocks,	82	77	ALX 080806	57	45	AM 2320 215 x 184 AM 2328 215 x 264 AM 2333 215 x 315
electronic devices and other ndustrial components. These	127	81	ALX 081306	57	45	AM 2340 215 x 385 AM 2360 215 x 586 AM 3140 294 x 387 AM 3160 293 x 585
enclosures are made from high quality, non corrosive aluminium.	177	81	ALX 081806	57	45	Mounting rail DIN 15
quality, non-con-con-c aranimam.	252	81	ALX 082506	57	45	ARM 0610
1	125	124	ALX 121208	81	64	ARM 0825 15 x 240
						Mounting rail DIN 35 ARH 12 35 x 105
	222	125	ALX 122208	81	64	ARH 22 35 x 203 ARH 36 35 x 343
A SUPERIOR	362	125	ALX 123608	81	74	ARH 16 35 x 140 ARH 26 35 x 240 ARH 1636 35 x 340
ATEX	163	162	ALX 161609	91	74	ARH 2320 35 x 180 ARH 2328 35 x 260 ARH 2333 35 x 310
/TT 03 ATEX Q 002 /TT 03 ATEX 044U (II 2 G, EEx e II)	263	162	ALX 162609	91	74	ARH 40 35 x 383 ARH 60 35 x 580
/TT 03 ATEX 137U (II 3 D) Supplement 1 to VTT 03 ATEX 044U IND VTT 03 ATEX 137U						Wall mounting lugs MRS 28540 MRS 28541
CHNICAL INFORMATION	1	1	1	1	<u> </u>	More accessories and dimensions; see page 28.

TECHNICAL INFORMATION

PROPERTY AISI CAST ALUMINIUM CONFORMITY TO STANDARDS **USA** Enclosures for Electrical Equipment Ingress Protection At least IP 54 (EN 60529) IP66/IP67 NEMA 1, 4, 4X, 6 12 and 13 (50/508) Europe Electrical apparatus for potentially explosive atmospheres EN 50014: 1997 + A1.....A5, Genreral requirements EN 50019: 1997 + A1.....A5, Increased safety "e" Impact Resistance 7J (Short term)

Temperature Range
(Short term) Celsius -50°...140°C -60°...285°F -10°...80°C Fahrenheit Celsius 14°...175°F Silicone (continuous) Fahrenheit ALX 121208 to ALX 162609 Temperature Range (short term) Temperature Range Celsius -50°...140°C Fahrenheit -60°. . .285°F Celsius -25°...80°C (continuous) .175°F Fahrenheit -13° PUR Gasket RAL 7001 grey Stainless Steel Good Polyester Powder Paint Colour Cover Screws
Chemical Resistance *

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

Also bigger Ex sizes available.













FIBOX FEX-PC-7

FIBOX FEX-PC-7 POLYCARBONATE ENCLOSURE			Including: Enclosure ba and mounting screws.	se, cover, cover s	crews,	
At least IP 54	Υ	X	ORDER SYMBOL		ORDER SYMBOL	ZXC
	mm	mm	Grey cover	EAN-code	Transparent cover	mm
	190	190	FEX 1919 13 G		FEX 1919 13 T	130 x 115
	190	190	FEX 1919 18 G		FEX 1919 18 T	180 x 165
	280	190	FEX 2819 13 G		FEX 2819 13 T	130 x 115
	280	190	FEX 2819 18 G		FEX 2819 18 T	180 x 165
The FEX-PC-7 range is suitable for enclosing terminals and other	380	190	FEX 3819 13 G		FEX 3819 13 T	130 x 115
equipment in harsh environmental conditions such as petrochemical sites or off-shore platforms.	380	190	FEX 3819 18 G		FEX 3819 18 T	180 x 165
Carlo Barrer	280	280	FEX 2828 13 G		FEX 2828 13 T	130 x 115
The same of the sa	280	280	FEX 2828 18 G		FEX 2828 18 T	180 x 165
-	380	280	FEX 3828 13 G		FEX 3828 13 T	130 x 115
CERTIFICATES: - VTT 03 ATEX Q 002 - VTT 03 ATEX 043U (II 2 G, EEx e II)	380	280	FEX 3828 18 G		FEX 3828 18 T	180 x 165
- VTT 03 ATEX 136U (II 3 D) - FIMKO: IP67 to IEC529 - Germanischer Lloyd	560	280	FEX 5628 13 G		FEX 5628 13 T	130 x 115
	560	380	FEX 5638 18 G		FEX 5638 18 T	180 x 165
	Access	sories, se	e pages 43-44.			

TECHNICAL INFORMATION

PROPERTY	POLYCARBONATE (PC)	CONFORMITY TO STANDARDS
Ingress Protectionat	At least IP 54	Europe Electrical apparatus for potentially explosive atmospheres
(EN 60529)	IP66/IP67	EN 50014: 1977 + A1A5, General requirements
		EN 50019: 1997 + A1A5, Increased safety "e"
Impact Resistance	4J	
(EN 50014)		
Temperature Range Celsius	-40°120°C	
(short term) Fahrenheit	-40°250°F	
Temperature Range Celsius	-10°80°C	
(continuous) Fahrenheit	14°175°F	
Electrical Insulation	Totally insulated	
Light Grey Parts Colour	RAL 7035	
Industry Grey		
Transparent Clear PC Cover	Clear Transparent	
Cover Screws	RAL 7035	
Cover Screws	Polyamide (PA)	
Gasket	Silicone	
Enclosure Flammability Rating	UL94-5V	UL 746 C 5 in. vertical flame test
Glow Wire Test	960°C	IEC 695-2-1, Self-extinguishing
Non-toxicity	Halogen Free	
UV resistance	UL 508, 720 hours in "Weatherometer"	
Chemical Resistance *	Good	

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













FIBOX PEX

FIBOX PEX POLYESTER ENCLOSURE			Including: Enclosure base, cover, cover screws, and mounting screws.					
At least IP 54	X	Υ	ORDER SYMBOL	Z				
	mm	mm	Grey cover	mm	C mm	ACCES	SORIES	
	75	80	PEX 080806	55	47	Order s	symbol	Size mm
	75	110	PEX 081106	55	47	Mountii	ng plate	
	75	160	PEX 081606	55	47	PM 080 PM 081)8	64 x 69 64 x 99
	75	190	PEX 081906	55	47	PM 081 PM 081 PM 081 PM 161	6 9	64 x 149 64 x 179 146 x 146
1	120	122	PEX 121209	90	75	PM 162 PM 252	26	146 x 244 231 x 240
	120	220	PEX 122209	90	75	PM 252 PM 254 PM 404	40	231 x 383 390 x 385
	160	160	PEX 161609	90	75			
The FIBOX PEX product family is suitable for enclosing terminals	160	260	PEX 162609	90	75	Mounti	ng rail	
and other electrical equipment in	160	360	PEX 163609	90	75	DIN 15		
the most demanding environ-						PRM 08 PRM 08		15 x 99 15 x 149
ments such as mining or chemical industries.	250	255	PEX 252612	120	105	PRM 08		15 x 179
	250	400	PEX 254012	120	105	Mountii DIN 35	ng rail	
	405	400	PEX 404012	120	105	PRH 25		35 x 238
140						Hinge k		
IN.E.						AH A/B PH A		
CERTIFICATES: - PTB: EEx e II						Mounti foot kit		
						MRS 28	8540 8541	11x42 15x50
						More acc see page		d dimensions;

TECHNICAL INFORMATION

PROPERTY	POLYESTER	CONFORMITY TO STANDARDS
Ingress Protection (EN 60529) Impact Resistance (EN 50014) Temperature Range Celsius (short term) Fahrenheit Temperature Range Celsius (continuous) Fahrenheit Electrical Insulation Enclosure Flammability Rating Glow Wire Test Cover screws Gasket Chemical Resistance *	IP 65 At least IP 54 7J -40°120°C -40°250°F -10°80°C 14°175°F Totally insulation □ UL94-5V 960°C Stainless Steel EPDM Good	USA Enclosures for Electrical Equipment NEMA 1, 4, 4X, 6 12 and 13 UL 746 C 5 in. vertical flame test IEC 695-2-1, Self-extinguishing UL 746 C 5 in. vertical flame test IEC 695-2-1, Self-extinguishing

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

















FIBOX EX

EX CERTIFICATION OF ENCLOSURES

Fibox EX enclosures are made for use in hazardous areas. They are designed, tested and manufactured to international standards. The certificates are issued by the manufacturer under licence from a test authority. All certified products are labelled clearly in compliance with the certification.

An enclosure with Component Certification will achieve the specified degree of safety in use when selected, assembled and installed correctly. The Component Certification establishes the acceptability of the empty enclosure for use as a component part of equipment which is certified by a Certificate of Conformity. Only equipment with a Certificate of Conformity should be installed in hazardous areas.

Hazardous areas are referred to as they are classified under CENELEC European Norms:

- Zone 0 = Zone in which an explosive gas/air mixture is continuously present or present for long periods.
- Zone 1 = Zone in which an explosive gas/air mixture is likely to occur in normal operation.
- Zone 2 = Zone in which an explosive gas/air mixture is not likely to occur in normal operation and if arises, will only last for a short period.

EXPLANATION OF CERTIFICATE SYMBOLS

The following tables can be used as practical quick guides. For more detailed information please contact your local Fibox representative.

The different EX protection types specified are:

Symbol	Test Standard	
е	EN 50019	
n	-	
d	EN 50018	
i	EN 50020	
S	-	
m	EN 50028	
0	EN 50015	
р	EN 50016	
q	EN 50017	
	e n d i s m	e EN 50019 n - d EN 50018 i EN 50020 s - m EN 50028 o EN 50015 p EN 50016

Classification of gas groups to IEC standards:

Gas Group	Representative Gas	
1	Methane	
II A	Prophane	
II B	Ethylene	
II C	Acetylene and Hydrogen	

Temperature classification to EN standards of the maximum surface temperature allowed for any part of an apparatus:

Temperature Class	Max. Surface Temperature	
T1	450 °C	
T2	300 °C	
T3	200 °C	
T4	135 °C	
T5	100 °C	
T6	85 °C	

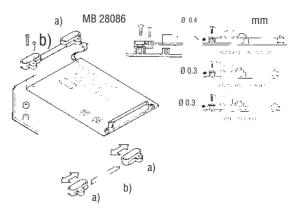
These temperature classifications are applicable only to mounted enclosures which have a Certificate of Conformity.

CIRCUIT BOARD BRACKET

Printed circuit boards and mounting plates often need special mounting supports that offer flexibility in positioning the boards across the enclosure body. Mounting supports also raise the board above the enclosure bottom, especially effective when using two sided boards. This circuit board bracket has a standard E1 (IEC 297-3, DIN 41494) Eurocard screw mounting distance of 89 mm (3.5") accepting M2,5 to M4 screws. The bracket can also be used for nonstandard boards by separating the ends of the bracket (a) from the connector bridge (b). If the bracket is not needed, the adapter parts for each individual

If the bracket is not needed, the adapter parts for each individual mounting pod size can be used only for raising the board above the enclosure base level.

CIRCUIT BOARD BRACKET							
ORDER SYMBOL	Remarks						
MB 28086	89	3.5	Adapter for EURONORD, PICCOLO, MINI. Direct mount to EK, SOLID, EKI, ALX, PC-7, PEX.				



CUSTOMISATION

Enclosures can be machined, painted, screen printed and preassembled to meet your customisation requirements. Fibox's service center offers complete CNC machining, hinge mounting, screen printing,

assembly and much more. Our wide selection of enclosures and accessories can be customised to create a unique enclosure meeting your application requirements.



CONTRACT MANUFACTURING



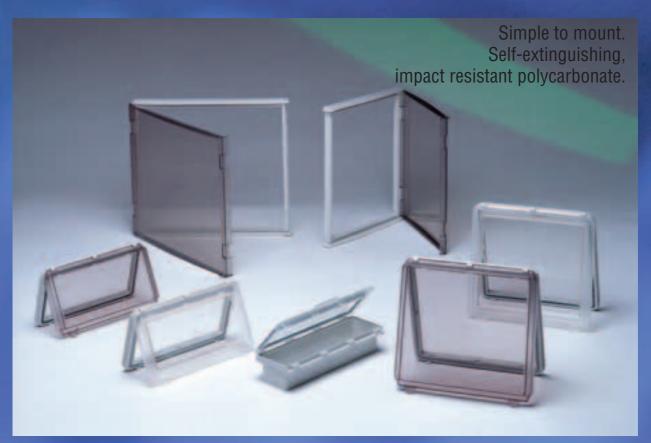


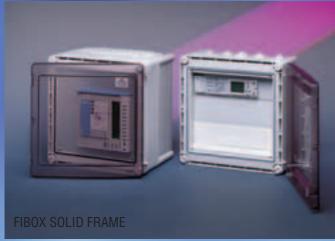






www.fibox.com







FIBOX Inspection Windows permit both viewing and access to IP rating and controls which are surface mounted on plastic or metal enclosures. While providing access, when cover closed, these inspection windows maintain enclosure environmental ratings up to IP 65. Four new second generation windows

L12 II, L24 II, L43 II and L44 II, feature transparent smoked grey polycarbonate with textured sides and stylish design.

FIBOX INSPECTION WINDOWS	Remarks	IP	Size mm	ORDER SYMBOL
L44 II	For 36 modules (1 module = 17,5 mm) Smoked transparent cover	65	377 x 331	L44 II
L43 II	For 26 modules Smoked transparent cover	65	331 x 277	L43 II
213 213 27 24 26 26 27 248 27 248	For 24 modules High cover Smoked transparent cover	65	248 x 218	L24 II
EDONT DI ATES FOR WINDOWS	For 12 modules High cover Smoked transparent cover	65	248 x 128	R12 10621-45
FRONT PLATES FOR WINDOWS L12, L 24, L12 II and L24 II	12 modules 2 x 12 modules	65		B12 10621-45 B24 10620-45



FIBOX INSPECTION WINDOWS	Remarks	IP	Size mm	ORDER SYMBOL	
L24 24 24 10	For 24 modules Low clear cover	65	248 x 218	L24	
213 213 213 248 27					
L12	For 12 modules	65	248 x 128	L12	
24	Low clear cover				
213 216 248					
L13	For 13 modules	65	257 x 108	L13	
35 15 243 257 47.5	Clear cover				
L02-L10 S	For 10 modules For 8 modules For 6 modules For 4 modules For 2 modules Clear cover	54 54 54 54 54	199 x 77 162 x 77 130 x 77 96 x 77 60 x 77	L10 L08 L06 L04 L02	
L02 99 2.3 44 1.7 L04 94.5 3.7 78 3.1 L06 129.5 5.1 114 4.5 L08 163 6.4 146 5.7 L10 200 7.9 183 7.2					

FIBOX SOLID FRAMES	Remarks	Size mm	ORDER SYMBOL	
	Frame, with opening Smoked transparent cover	280 x 280	Cover 28/28-0	
	Frame, no opening Smoked transparent cover	280 x 280	Cover 28/28-D	
	Frame with one DIN opening Smoked transparent cover	280 x 280 x 54	SF PC2828-SG-12-1	
	Frame with two DIN openings Smoked transparent cover	280 x 280 x 54	SF PC2828-SG-12-2	

Data subject to change without notice.

FEATURES YOU'VE NEVER SEEN BEFORE

Ingress protection: IP 54-IP 65 Temperature range: $-40^{\circ}\text{C} - +120^{\circ}\text{C}$

- Chemical resistance to concentrated mineral acids, organic acid, oxidants, deducing agents, neutral /acid salt solutions, grease & oil
- Resistance to U.V. radiation
- Self-extinguishing to UL94
- Non-hygroscopic

Data subject to change without notice.

CUSTOMISATION

Enclosures can be machined, painted, screen printed and preassembled to meet your customisation requirements. Fibox's service centre offers complete CNC machining, hinge mounting, screen printing, assembly and much more. Our

wide selection of enclosures and accessories can be customised to create a unique enclosure meeting your application requirements.



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