

FIBOX MNX

FIBOX MNX

PC
ABS
PCM
F



Pat.Reg. 384648, 400513, 400512



MNX PC



MNX ABS












MNX PCM

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.

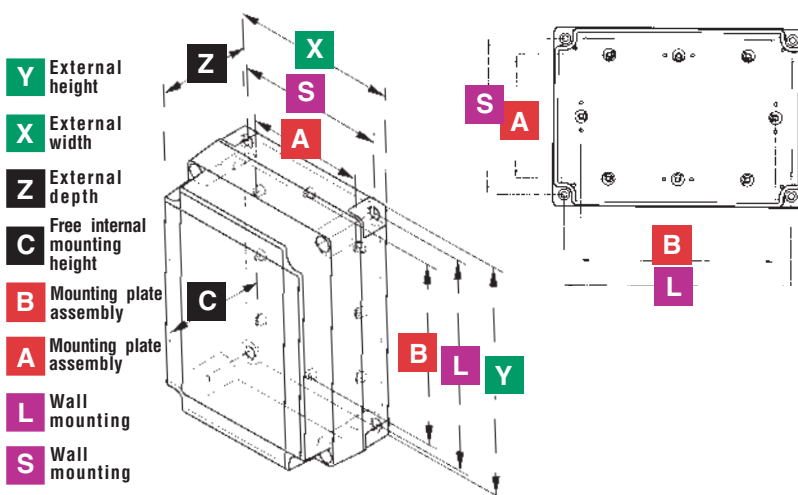
Covers are available opaque or transparent "smoked grey". A wide selection of accessories is available including a hinged "Swing Out" inner panel, the "Swing Panel".

FIBOX MNX PC

FIBOX MNX POLYCARBONATE PC: IP 66/67 and IP 66, IK 08	Z mm	C mm	Including: Enclosure cover with cover screws and wing heads for cover screws, base with mounting plate screws and gasket.				B x A
			ORDER SYMBOL		ORDER SYMBOL		L x S
			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	
	50	45.6	PC 95/50 LG		PC 95/50 LT	70 x 45	
	60	53.8	PC 95/60 HG		PC 95/60 HT	L x S	
	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	
	50	41.0	PC 100/50 LG		PC 100/50 LT	90 x 40	
	75	61.0	PC 100/75 LG		PC 100/75 LT	L x S	
	100	90.9	PC 100/100 LG		PC 100/100 LT	113.5 x 63.5	
PC 100 H 	60	44.5	PC 100/60 HG		PC 100/60 HT	B x A	
	75	61.0	PC 100/75 HG		PC 100/75 HT	90 x 40	
	100	86.3	PC 100/100 HG		PC 100/100 HT	L x S	
	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	B x A	
	50	40.9	PC 125/50 LG		PC 125/50 LT	90 x 90	
	75	65.9	PC 125/75 LG		PC 125/75 LT	L x S	
	100	90.9	PC 125/100 LG		PC 125/100 LT	113.5 x 113.5	
PC 125 H 	60	44.4	PC 125/60 HG		PC 125/60 HT	B x A	
	75	61.0	PC 125/75 HG		PC 125/75 HT	90 x 90	
	100	86.2	PC 125/100 HG		PC 125/100 HT	L x S	
	125	111.3	PC 125/125 HG		PC 125/125 HT	113.5 x 113.5	
PC 150 L 	35	23.6	PC 150/35 LG		PC 150/35 LT	B x A	
	50	41.0	PC 150/50 LG		PC 150/50 LT	140 x 90	
	75	65.9	PC 150/75 LG		PC 150/75 LT	L x S	
	100	90.9	PC 150/100 LG		PC 150/100 LT	163.5 x 113.5	
PC 150 H 	60	44.0	PC 150/60 HG		PC 150/60 HT	B x A	
	75	61.3	PC 150/75 HG		PC 150/75 HT	140 x 90	
	100	86.3	PC 150/100 HG		PC 150/100 HT	L x S	
	125	111.3	PC 150/125 HG		PC 150/125 HT	163.5 x 113.5	
PC 175 H 	60	44.0	PC 175/60 HG		PC 175/60 HT	B x A	
	75	61.0	PC 175/75 HG		PC 175/75 HT	140 x 140	
	100	86.3	PC 175/100 HG		PC 175/100 HT	L x S	
	125	111.0	PC 175/125 HG		PC 175/125 HT	163.5 x 163.5	
PC 200 H  PC 200 XH	150	135.9	PC 200/150 HG		PC 200/150 HT	B x A	
	63	47.5	PC 200/63 HG		PC 200/63 HT	215 x 140	
	75	61.2	PC 200/75 HG		PC 200/75 HT	L x S	
	100	86.3	PC 200/100 HG		PC 200/100 HT	238.5 x 163.5	
	150	135.9	PC 200/150 HG		PC 200/150 HT		
	88	71.5	PC 200/88 XHG		PC 200/88 XHT		
	100	86.8	PC 200/100 XHG		PC 200/100 XHT		
	125	111.9	PC 200/125 XHG		PC 200/125 XHT		
175	161.5	PC 200/175 XHG		PC 200/175 XHT			

External height **Y** External width **X** External depth **Z** Free internal mounting height **C** Mounting plate assembly **B x A** Wall mounting **L x S**

L (low base) = enclosure with the low 25 mm base, H (high base) = enclosure with the high 50 mm base, XH (extra high base) = enclosure with the extra high 75 mm base, T = smoked transparent cover with black cover screws and black wing heads, G = grey cover with grey cover screws and grey wing heads.



SYMBOLS AND ABBREVIATIONS

PC 100 / 60 L G	
PC	Cover G = Grey T = Smoked grey transparent
L	Base height L= Low 25 mm H= High 50 mm XH= Extra high 75 mm
G	Total height = base + cover
100 / 60	Size (length + width/2)
	Enclosure range/type
PC	Smooth sides
ABS	Smooth sides
PCM	Sides with metric knock-outs

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.



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

FIBOX MNX PCM WITH METRIC KNOCK-OUTS

Amount of metric knock-outs in FIBOX MNX PCM:

Y x X mm	KNOCK-OUT OPENINGS Long side		KNOCK-OUT OPENINGS Short side
	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 PC: IP 66/67 and IP 66, IK 08	Z mm	C mm	Including: Enclosure cover with cover screws and wing heads for cover screws, base with mounting plate screws and gasket.			B x A
			ORDER SYMBOL	ORDER SYMBOL	L x S	
					mm	
			Grey cover		Smoked transparent cover	
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	44.0 61.0 86.3 111.3 135.9	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	47.5 61.2 86.3 135.9	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	71.5 86.8 111.9 161.5	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

External height **Y** External width **X** External depth **Z** Free internal mounting height **C** Mounting plate assembly **B x A** Wall mounting **L x S**

Enclosure with the high 50 mm base. X (extra high base) = enclosure with the extra high 75 mm base.
T= smoked transparent cover with black cover screws and black wing heads, G= grey cover with grey cover screws and grey wing heads.

FIBOX MNX ABS

FIBOX MNX ABS ABS: IP 66/67 and IP 66, IK 07	Z mm	C mm	Including: Enclosure cover with cover screws and wing heads for cover screws, base with mounting plate screws and gasket.				B x A
			ORDER SYMBOL		ORDER SYMBOL	L x S	
			Grey cover		Smoked transparent cover	mm	
ABS 95 L / ABS 95 H Y x X 100 mm 100 mm 	35	28.8	ABS 95/35 LG		ABS 95/35 LT	B x A	
	50	45.6	ABS 95/50 LG		ABS 95/50 LT	70 x 45	
	60	53.8	ABS 95/60 HG		ABS 95/60 HT	L x S	
	75	70.6	ABS 95/75 HG		ABS 95/75 HT	83.5 x 83.5	
ABS 100 L Y x X 130 mm 80 mm 	35	24.1	ABS 100/35 LG		ABS 100/35 LT	B x A	
	50	41.0	ABS 100/50 LG		ABS 100/50 LT	90 x 40	
	75	61.0	ABS 100/75 LG		ABS 100/75 LT	L x S	
	100	90.9	ABS 100/100 LG		ABS 100/100 LT	113.5 x 63.5	
ABS 100 H Y x X 130 mm 80 mm 	60	44.5	PC 100/60 HG		ABS 100/60 HT	B x A	
	75	61.0	PC 100/75 HG		ABS 100/75 HT	90 x 40	
	100	86.3	PC 100/100 HG		ABS 100/100 HT	L x S	
	125	111.3	PC 100/125 HG		ABS 100/125 HT	113.5 x 63.5	
ABS 125 L Y x X 130 mm 130 mm 	35	24.0	ABS 125/35 LG		ABS 125/35 LT	B x A	
	50	40.9	ABS 125/50 LG		ABS 125/50 LT	90 x 90	
	75	65.9	ABS 125/75 LG		ABS 125/75 LT	L x S	
	100	90.9	ABS 125/100 LG		ABS 125/100 LT	113.5 x 113.5	
ABS 125 H Y x X 130 mm 130 mm 	60	44.4	ABS 125/60 HG		ABS 125/60 HT	B x A	
	75	61.0	ABS 125/75 HG		ABS 125/75 HT	90 x 90	
	100	86.2	ABS 125/100 HG		ABS 125/100 HT	L x S	
	125	111.3	ABS 125/125 HG		ABS 125/125 HT	113.5 x 113.5	
ABS 150 L Y x X 180 mm 130 mm 	35	23.6	ABS 150/35 LG		ABS 150/35 LT	B x A	
	50	41.0	ABS 150/50 LG		ABS 150/50 LT	140 x 90	
	75	65.9	ABS 150/75 LG		ABS 150/75 LT	L x S	
	100	90.9	ABS 150/100 LG		ABS 150/100 LT	163.5 x 113.5	
	125	115.5	ABS 150/125 LG		ABS 150/125 LT		
ABS 150 H Y x X 180 mm 130 mm 	60	44.0	ABS 150/60 HG		ABS 150/60 HT	B x A	
	75	61.3	ABS 150/75 HG		ABS 150/75 HT	140 x 90	
	100	86.3	ABS 150/100 HG		ABS 150/100 HT	L x S	
	125	111.3	ABS 150/125 HG		ABS 150/125 HT	163.5 x 113.5	
	150	135.9	ABS 150/150 HG		ABS 150/150 HT		
ABS 175 H Y x X 180 mm 180 mm 	60	44.0	ABS 175/60 HG		ABS 175/60 HT	B x A	
	75	61.0	ABS 175/75 HG		ABS 175/75 HT	140 x 140	
	100	86.3	ABS 175/100 HG		ABS 175/100 HT	L x S	
	125	111.0	ABS 175/125 HG		ABS 175/125 HT	163.5 x 163.5	
	150	135.9	ABS 175/150 HG		ABS 175/150 HT		
ABS 200 H Y x X 255 mm 180 mm 	63	47.5	ABS 200/63 HG		ABS 200/63 HT	B x A	
	75	61.2	ABS 200/75 HG		ABS 200/75 HT	215 x 140	
	100	86.3	ABS 200/100 HG		ABS 200/100 HT	L x S	
	150	135.9	ABS 200/150 HG		ABS 200/150 HT	238.5 x 163.5	
	88	71.5	ABS 200/88 XHG		ABS 200/88 XHT		
	175	161.5	ABS 200/175 XHG		ABS 200/175 XHT		

External height **Y** External width **X** External depth **Z** Free internal mounting height **C** Mounting plate assembly **B** x **A** Wall mounting **L** x **S**

L (low base) = enclosure with the low 25 mm base, H (high base) = enclosure with the high 50 mm base, XH (extra high base) = enclosure with the extra high 75 mm base, T = smoked transparent cover with black cover screws and black wing heads, G = grey cover with grey cover screws and grey wing heads.

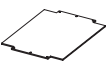






FIBOX MNX PC/ABS





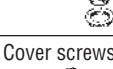





TECHNICAL INFORMATION

PROPERTY	POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CSA, CE, Lloyds, BV, FI)
Ingress Protection (EN 60529)	IP66/IP 67 and IP66	IP66/67 and IP66	USA Enclosures for Electrical Equipment PC: UL Type 1, 4, 4X, 6 (12 and 13) (UL 50/508) ABS: NEMA 1, 4, 4X, 6 (12 and 13)
Impact Resistance (EN 50102)	IK 08	IK 07	Canada Industrial Control Equipment Enclosures for Electrical Equipment/ULc
Temperature Range (short term)	Celsius Fahrenheit	Celsius Fahrenheit	Europe Enclosures for Switch Gear and Control Gear Assemblies EN 50298:1998
Temperature Range (continuous)	Celsius Fahrenheit	Celsius Fahrenheit	Europe Safety of Information Technology Equipment EN 60950
Electrical Insulation	Totally insulated <input type="checkbox"/>	Totally insulated <input type="checkbox"/>	Australia Enclosures for switch gear and control gear AS 3132-1991
Light Grey Parts Colour	RAL 7035 Industry Grey	RAL 7035 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  incl. screws	HFP 130 HFP 180	130 180	
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 15 x 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)  incl. mounting screws	TH A		
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 KN 3.9x9.5	2.9 x 6.5 3.9 x 9.5	

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.

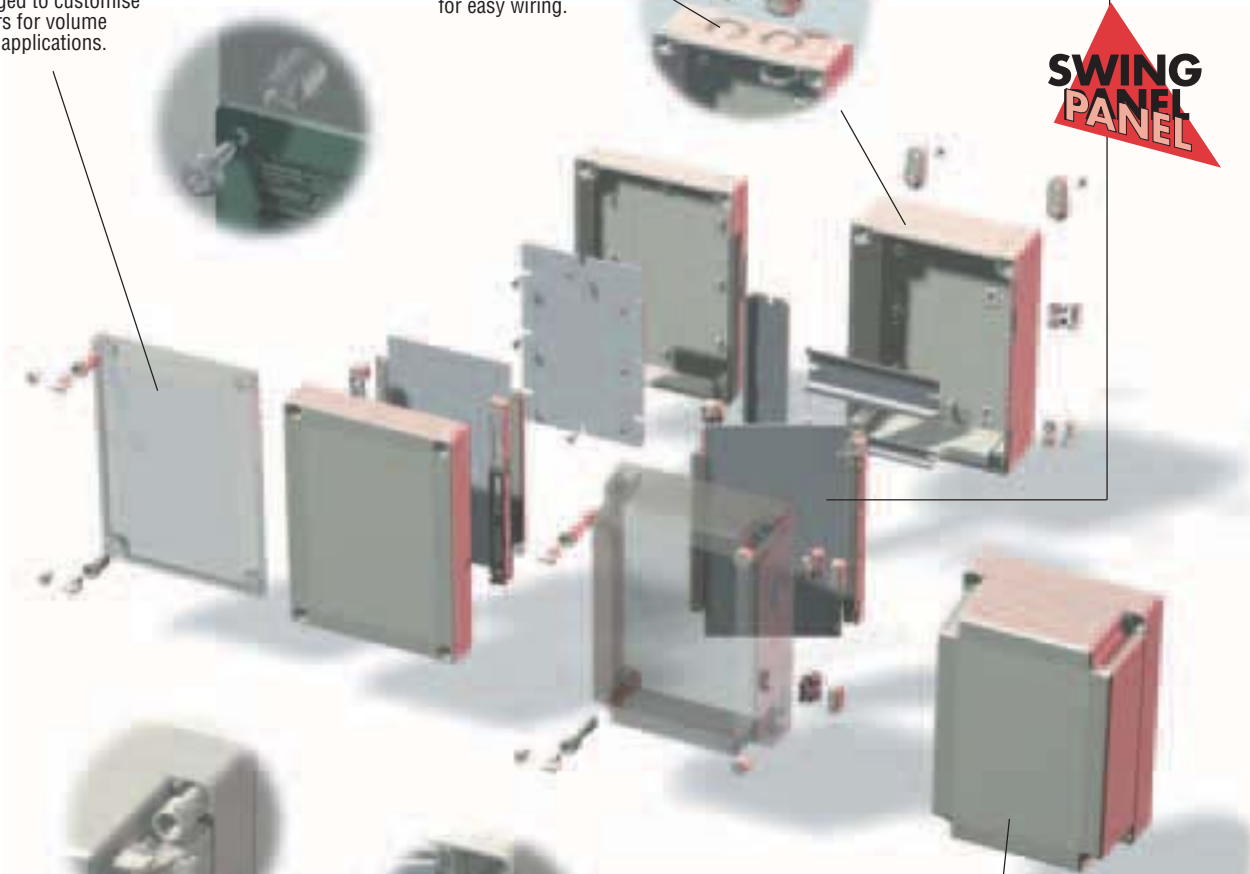


FIBOX MNX PCM

Enclosure features metric knock-outs moulded in place for easy wiring.



**SWING
PANEL
PANEL**



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.



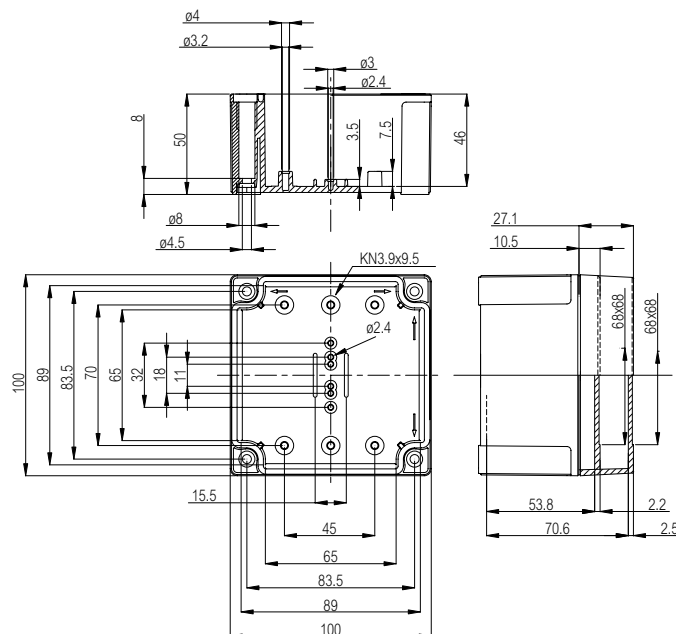
Sample photo

Order symbol: PC 95/60 HG
Product nbr: 6011331
Description: Enclosure, PC
Remarks: Grey cover

EAN: 6418074054630
El. number:
 Finland 3421364
 Denmark 8212027721

Including: Base with PUR gasket and screws for mounting plate/DIN-rail, cover with polyamide cover screws and wing heads for cover screws.

Dimensions:			Rating:	
	L	W	H	
mm:	100	100	60	Ingress Protection (EN 60529): IP 66/67
inch:	3.9	3.9	2.4	Impact Resistance (EN 50102): IK 08
Materials:			Electrical insulation: Totally insulated	
Material:	PC		Halogen free (DIN/VDE 0472, Part 815): Yes	
Base colour:	RAL 7035		UV resistance: UL 508	
Cover colour:	RAL 7035		Flammability Rating (UL 746 C 5): UL 94 5V	
Cover screws material:	Polyamide		Glow Wire Test (IEC 695-2-1) °C: 960	
Cover screws colour:	Grey		NEMA Class: NEMA 1, 4, 4X, 6, 12, 13	
Gasket material:	Polyurethane		Certificates:	
Temperatures:			Germanischer Lloyd (GL)	
Short term:	-40 ... 120 °C		Underwriters Laboratories	
Continuous:	-40 ... 80 °C		Det Norske Veritas	
Short term:	-40 ... 250 °F		Fimko	
Continuous:	-40 ... 175 °F		Europe EN 50298 1998	
Accessories:			UL Canada	
MIV 95	Mounting plate		Gost R	
B-3	DIN-35 Mounting rail			





Sample photo

Order symbol: PCM 95/60 T
Product nbr: 6016931
Description: Enclosure, PC
Remarks: Smoked transparent cover

EAN: 6418074054791
El. number:
 Finland 3421396
 Denmark 8212027572

Including: Base with metric knock-outs and PUR gasket and screws for mounting plate/DIN-rail, cover with polyamide cover screws and wing heads for cover screws.

Dimensions:			Rating:
L	W	H	
mm:	100	100	Ingress Protection (EN 60529): IP 66/67
inch:	3.9	3.9	Impact Resistance (EN 50102): IK 08
Materials:			Certificates:
Material:	PC		Electrical insulation: Totally insulated
Base colour:	RAL 7035		Halogen free (DIN/VDE 0472, Part 815): Yes
Cover colour:	Smoked grey		UV resistance: UL 508
Cover screws material:	Polyamide		Flammability Rating (UL 746 C 5): UL 94 5V
Cover screws colour:	Black		Glow Wire Test (IEC 695-2-1) °C: 960
Gasket material:	Polyurethane		NEMA Class: NEMA 1, 4, 4X, 6, 12, 13
Temperatures:			
Short term:	-40 ... 120 °C		Germanischer Lloyd (GL)
Continuous:	-40 ... 80 °C		Underwriters Laboratories
Short term:	-40 ... 250 °F		Det Norske Veritas
Continuous:	-40 ... 175 °F		Fimko
Accessories:			Europe EN 50298 1998
MIV 95	Mounting plate		UL Canada
B-3	DIN-35 Mounting rail		Gost R

