



**MULTI-BOX**  
THE BOX COMPANY



## Product Information

Polycarbonate-Enclosures MBX





# Excellent protection in harsh environments.

## Polycarbonate-Enclosures MBX

MULTI-BOX MBX is one of the most durable standard plastic enclosure range on the market, specifically designed for use in industrial and outdoor applications. The three versions of the enclosure series cover the diverse requirements of demanding applications, such as shipbuilding, agricultural engineering or wind power industry. The enclosures offer an excellent protection for components and sensitive electronics, even when demands are extremely high. With a seamlessly foamed 2-component polyurethane gasket, all MULTI-BOX MBX types achieve protection class IP69K. The enclosures can easily withstand high pressure water jets,

steam jet cleaning or short-term flooding. They are therefore ideally suited for use in vehicle construction, agricultural engineering or plant construction. The extremely durable version MULTI-BOX MBX PRO is produced from a newly developed impact-resistant and weather-resistant polycarbonate material, which meets self-extinguishing levels according to UL94V-0/5VA. The MBX PRO series is superior to all aluminium enclosures, especially in applications with an increased risk of corrosion.

The 10 sizes are compatible with the well-known standard aluminium enclosures.

### FEATURES

- Best protection for all electronic components due to absolute tightness (protection class IP69K)
- Weather resistant (UV stabilized UL F1)
- Absolutely corrosion resistant
- Self-extinguishing (UL 94V-0/5VA) MBX PRO
- Impact resistant (IK10) even at temperatures below 0 °C MBX PRO
- Railway approval according to DIN EN 45545 MBX PRO

### PRODUCT ADVANTAGES

- Compatible with standard aluminium enclosures
- Existing installations with conventional aluminium enclosures can easily be replaced by an MBX enclosure
- Low weight despite extremely high stability
- Special colours available on request
- Fixing channels outside the sealing chamber
- Captive cover screws made of stainless steel
- Thread bushes made of nickel-plated brass MBX PRO
- Innovative sealing concept for reliable function and high degree of protection



**MULTI-BOX MBX PRO**



Customised silk screen printing on a MULTI-BOX MBX PRO enclosure. Individual mechanical CNC machining is carried out according to customer drawings.

**MULTI-BOX MBX BASIC**



Various MULTI-BOX MBX Basic enclosures with customised machining. We transform our standard products into your bespoke enclosure solution.

**MULTI-BOX MBX BASIC-K**



Version MULTI-BOX MBX BASIC-K with transparent lid. Your electronics and components can be clearly viewed safe and protected.

**VERSIONS AND TECHNICAL INFORMATION**

	MBX PRO	MBX BASIC	MBX BASIC-K / Clear cover
Color description Base	Silver-Grey / RAL 7001	Light-Grey / RAL 7035	Light-Grey / RAL 7035
Color description Cover	Silver-Grey / RAL 7001	Light-Grey / RAL 7035	Transparent
Thread bushes / Cover screws	Brass nickel-plated / Stainless steel	Brass / Stainless steel	Brass / Stainless steel
Protection class	IP69K / IP66	IP69K / IP66	IP69K / IP66
Temperature resistance	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C
UV-Stability	UL 746C (F1)	UL 746C (F1)	UL 746C (F1)
Impact resistance	IK10	IK08	IK08
Flame retardancy	UL 94V-0/5VA	UL 94V-2	UL 94V-2
Gasket (Standard)	PU-foam seamless	PU-foam seamless	PU-foam seamless
Scope of delivery	4 x mounting screw	4 x mounting screw	4 x mounting screw

**ARTICLE NUMBERS, DIMENSIONS AND ACCESSORIES**

Article Number	Type	Length mm	Width mm	Height mm	Accessories					
					Mounting rail	Mounting plate	Wall brackets	External hinges	Silicone gasket	Wall fixation thread inserts
<b>MULTI-BOX MBX PRO</b>										
1005100200	MBX 606030 P	58	64	34	■	■	■		■	■
1005100400	MBX 906030 P	98	64	35	■	■	■		■	■
1005100900	MBX 708055 P	75	80	57	■	■	■	■	■	■
1005101100	MBX 128055 P	125	80	57	■	■	■	■	■	■
1005101300	MBX 178055 P	175	80	57	■	■	■	■	■	■
1005101800	MBX 121280 P	122	120	80	■	■	■	■	■	■
1005101900	MBX 121290 P	122	120	90	■	■	■	■	■	■
1005102300	MBX 221290 P	220	120	90	■	■	■	■	■	■
1005102500	MBX 161690 P	160	160	90	■	■	■	■	■	■
1005102600	MBX 261690 P	260	160	90	■	■	■	■	■	■
<b>MULTI-BOX MBX BASIC</b>										
1003100200	MBX 606030 B	58	64	34	■	■	■		■	■
1003100400	MBX 906030 B	98	64	35	■	■	■		■	■
1003100900	MBX 708055 B	75	80	57	■	■	■	■	■	■
1003101100	MBX 128055 B	125	80	57	■	■	■	■	■	■
1003101300	MBX 178055 B	175	80	57	■	■	■	■	■	■
1003101800	MBX 121280 B	122	120	80	■	■	■	■	■	■
1003101900	MBX 121290 B	122	120	90	■	■	■	■	■	■
1003102300	MBX 221290 B	220	120	90	■	■	■	■	■	■
1003102500	MBX 161690 B	160	160	90	■	■	■	■	■	■
1003102600	MBX 261690 B	260	160	90	■	■	■	■	■	■
<b>MULTI-BOX MBX BASIC-K</b>										
1004100200	MBX 606030 BK	58	64	34	■	■	■		■	■
1004100400	MBX 906030 BK	98	64	35	■	■	■		■	■
1004100900	MBX 708055 BK	75	80	57	■	■	■	■	■	■
1004101100	MBX 128055 BK	125	80	57	■	■	■	■	■	■
1004101300	MBX 178055 BK	175	80	57	■	■	■	■	■	■
1004101800	MBX 121280 BK	122	120	80	■	■	■	■	■	■
1004101900	MBX 121290 BK	122	120	90	■	■	■	■	■	■
1004102300	MBX 221290 BK	220	120	90	■	■	■	■	■	■
1004102500	MBX 161690 BK	160	160	90	■	■	■	■	■	■
1004102600	MBX 261690 BK	260	160	90	■	■	■	■	■	■

Technical drawings and further information about our products can be found online at [multi-box.com/mbx](http://multi-box.com/mbx)



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