



IP 65

IK 08

+80 °C

-40 °C



# MCE

## Modular component enclosures in a modern design

The Fibox MCE Control system offers a practical and modern design with elegant transparent smoked grey windows on the front face, for power distribution, automation and control, are protected to IP 65 and up to 63 A. The MCE enclosures are made from halogen-free and UV-tested polycarbonate with a very high mechanical impact resistance.

Fibox MCE range includes five sizes in 5, 9, 14, 28 and 42 modules which are stock products, and bigger sizes are available on request. MCE MF/M versions have knock-outs on both base ends for metric (M16-M50) and multi cable membrane (M50 optional). MF/FL versions have size II flange and metric knock-outs (M25, M32) on one base end (only 14, 28, 42 modules) and on the other metric knock-outs (M20-M50). Additional knock-outs on the sides and in the bottom of the base give more possibilities: enable side-coupling of enclosures and entering of flush-installed cables.

MCE - Modular component enclosures offer easy-to-use and practical functionality, and are designed to house modular DIN rail-mounted power distribution, automation and control components.

Unique features include multiple membrane cable glands for secure and application specific wiring both in assembly and on site. All cable entry knock-outs are in metric dimensions for hassle-free use. Lockable and secured frame mounting stops unauthorised access to components.

### Spacious and easy to wire MCE gives more - 14 modules in one row

DIN rails are mounted away from the base of the enclosure and on units of 14+ modules the position is adjustable. PEN supports are positioned to allow optimum wiring space inside the enclosure. Their position also makes wiring as easy as possible.

### Every wiring configuration made possible

"Multi FEM" (optional), multi-cable membrane glands, size M50, enable quick and effective entry of 3 x ø6-10 mm,

#### Many Features Create Functional Solutions

- DIN rail system has an adjustable rail depth and can be mounted in extra mounting pods for cross direction in the bottom.
- PEN supports are positioned to allow optimum wiring space.
- Transparent windows are reversible – left- or right-hinged according to application requirements.
- Non-modular components can be installed behind or on aluminum front plate in sizes 14+.
- Window can be secured with pad lock and cover screw can be seal-wired.
- Multiple cable entry options.
- FL versions have size II knock-out for standard gland plates.
- Spacious and easy to wire
- Polycarbonate with very high mechanical impact – no corrosion
- High Ingress Protection IP 65
- Halogen free – no PVC

3 x ø10-14 mm cables through one single membrane while maintaining IP 65. There are cable entries on five sides of every MCE enclosure and all of them are the metric standard.

### Unauthorised access stops here

Stylish, but impact proof window can be secured easily with padlock (optional) or screw. Secured windows cover the screws used for the mounting of frame part of the enclosure and thus the components and the wall mounting remains inaccessible. Cover screws and windows can also be wire-sealed.

## Enclosures

## Accessories included

## Accessories (sold separately)

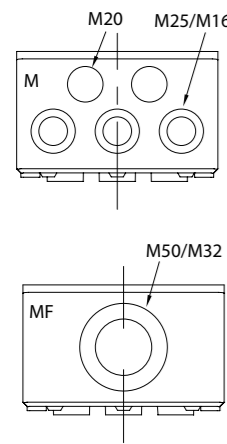
Order symbol	Modules	Size	EAN	DIN rail (mounted)	FEM membrane cable glands	PEN bar (mounted)	Cover plate for 12 modules	Front plate, aluminium	Locking (Pad lock set)
MCE II PC 5 MF/M	5 modules in 1 row	200 x 116 x 105	6418074095183	1 x DIN 35-rail	M20, M25, M32	6 x 10 mm <sup>2</sup> , 6 x 10 mm <sup>2</sup>	-	-	-
MCE II PC 9 MF/M	9 modules in 1 row	200 x 190 x 105	6418074095190	1 x DIN 35-rail	2 x M20, M25, M32	10 x 10 mm <sup>2</sup> , 10 x 10 mm <sup>2</sup>	-	-	-
MCE II PC 14 MF/M	14 modules in 1 row	280 x 306 x 145	6418074077646	1 x DIN 35-rail	5 x M20, 2 x M25, M32	3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> + 3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup>	MB 26050	FP A 26133	MB 26146 SET
MCE II PC 28 MF/M	28 modules in 2 rows	430 x 306 x 145	6418074077653	2 x DIN 35-rail	2 x M16, 5 x M20, 4 x M25, M32	2 x (3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> + 3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> )	MB 26050	FP A 26133	MB 26146 SET
MCE II PC 42 MF/M	42 modules in 3 rows	580 x 306 x 145	6418074077660	3 x DIN 35-rail	2 x M16, 8 x M20, 4 x M25, 2 x M32	2 x (3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> + 3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> )	MB 26050	FP A 26133	MB 26146 SET
MCE II PC 14 MF/FL*	14 modules in 1 row	280 x 306 x 145	6418074071033	1 x DIN 35-rail	M20, M25, M32	3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> + 3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup>	MB 26050	FP A 26133	MB 26146 SET
MCE II PC 28 MF/FL*	28 modules in 2 rows	430 x 306 x 145	6418074071040	2 x DIN 35-rail	M25, M32, M40	2 x (3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> + 3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> )	MB 26050	FP A 26133	MB 26146 SET
MCE II PC 42 MF/FL*	42 modules in 3 rows	580 x 306 x 145	6418074071064	3 x DIN 35-rail	M25, M32, M40	2 x (3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> + 3 x 16 mm <sup>2</sup> , 11 x 4 mm <sup>2</sup> )	MB 26050	FP A 26133	MB 26146 SET

All enclosures include module marking stripes & pockets and wall mounting cover plugs.

\*Flange plate not included – order separately.

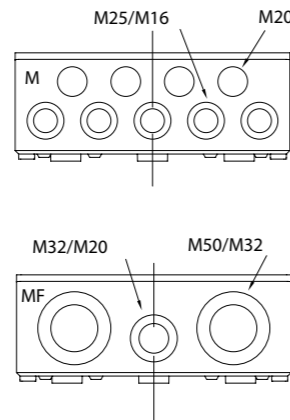
### MCE PC 5

MCE 200x116x105



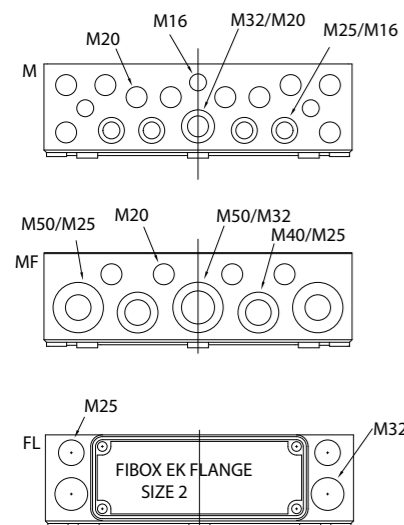
### MCE PC 9

MCE 200x190x105



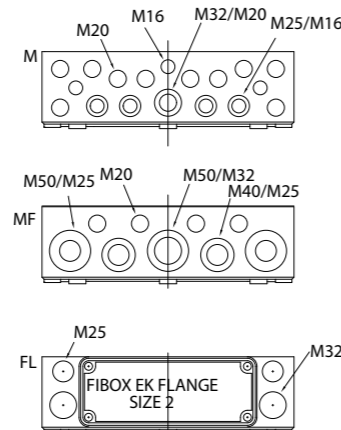
### MCE II PC 14

MCE 280x306x145



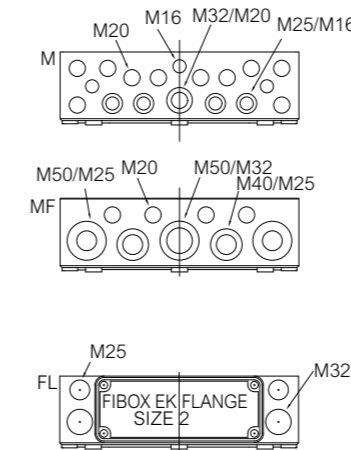
### MCE II PC 28

MCE 430x306x145



### MCE II PC 42

MCE 580x306x145



Aluminium front plate for non-modular components are available for sizes 14+



### Membrane cable glands

EPDM Rubber, RAL 7035 Grey, IP 66/IP 67 (EN 60529:1991+ A1:2000), Flame resistance UL 94-V2, Temperature range -40°...+120°C

Order symbol	EAN	Size	Cable diameter	Wall thickness (mm)
FEM 5-9 Long	6418074070456	M 16	5-9	2-5
FEM 8-13	6418074035448	M 20	8-13	1-4
FEM 11-17	6418074035462	M 25	11-17	1-4
FEM 15-20	6418074035479	M 32	15-20	1-4
FEM 19-28	6418074035486	M 40	19-28	1-4
FEM 27-35	6418074035530	M 50	27-35	1-4
MFM 8-12	6418074036803	M 50	3 x 6-10 + 3 x 10-14	1-4

### Flange sets: including flange, gasket plate connectors with screws

Order symbol	EAN	Size	Description
Cover plate, Polycarbonate (PC), IP 66 (EN 60529), Grey RAL 7035, Flame resistance UL 94-V1			
MB 10546 SET	6418074092489	size 2	
Metric cable gland plate set, Polycarbonate (PC), IP 65 (EN 60529), Grey RAL 7035, Flame resistance UL 94-V1			
MB 10891 SET	6418074056658	size 2	12 x M20
MB 10860 SET	6418074052421	size 2	5 x M25 + 6 x M20
MB 10861 SET	6418074052438	size 2	2 x M50 + 4 x M20
MB 10862 SET	6418074052445	size 2	2 x M16 + 3 x M20 + 2 x M25 + 2 x M32
Membrane flange plate sets, TPE (Thermo Plastic Elastomer), IP 65 (EN 60529), Flame resistance UL 94HB, Grey RAL 7035, Temperature range -40°...+120°C			
FMC 3F-SET	6418074057969	size 2	lead-through 7 (Ø3-55mm)
FMC 25F-SET	6418074057976	size 2	lead-through 29 (Ø3-26mm), optional RJ-45 lead-through
FMC 35F-SET	6418074057983	size 2	lead-through 43 (Ø3-30mm), optional RJ-45 lead-through

## New plug-in PEN terminals in 14+ sizes

All 14+ sizes are fitted now with the new plug-in PE/N terminals.

Outgoing wires are clamped and kept firmly in the terminal without a screw. It makes wiring easy and quick and brings down the cost of installation.

Housing of the terminals is made from insulating material and its design is finger-proof – these features enhance safety and provide maximum user protection.

Single PEN-bar offers 3 x 16 mm<sup>2</sup> + 11 x 4 mm<sup>2</sup> for PE and the same configuration for N connections. In sizes 28 and 42 two bars are used to provide relevant wiring capacity.

3 x 16 mm<sup>2</sup> are screw terminals to ensure connection reliability.



### MCE technical information

Property	Polycarbonate (PC)
Ingress Protection (EN 60529)	IP 65
Impact Resistance (EN 62262)	IK 08
Static loads	10 kg/rail
Temperature Range Celsius (short term)	-40° . . 120°C
Temperature Range Celsius (continuous)	-40° . . 250°F
Temperature Range Celsius (short term)	-40° . . 80°C
Temperature Range Celsius (continuous)	-40° . . 175°F
Rated voltage, current	AC 400V, 63A max.
Rated short-time withstand current	10kA max.
Frequency	50Hz
Electrical Insulation	Totally insulated <input type="checkbox"/>
Light Grey Parts Colour	RAL 7035 Industry Grey
Transparent Clear PC Cover	Smoked Grey
Cover Screws	RAL 7035 Polyamide (PA)
Gasket	TPE, Thermo Plastic Elastomer
Enclosure Flammability rating	UL 94-V0
Glow Wire Test (IEC 695-2-1)	960°C
Self-extinguishing (PC)	
Non-toxicity	Halogen Free (DIN/VDE 0472, part 815)
UV resistance	UL 746C 720 hours in "Weatherometer"
Chemical Resistance **	Good

### Conformity to standards

**USA** Enclosures for Electrical Equipment  
PC:UL Type 1; UL File E75645 Vol1 Sec 8\*

**Canada** Industrial Control Equipment  
Enclosures for Electrical Equipment/ULc\*

**Europe** Empty enclosures for low-voltage  
switchgear and controlgear  
assemblies EN 62208:2011  
Low-voltage switchgear and controlgear  
assemblies  
EN 61439-3:2012  
EN 61439-4:2013

RoHS directive 2011/65/EU

**Russia** GostR - Gost Russian certificate of  
conformity

The product(s) fulfils the essential safety  
requirements for CE conformity marking  
according to the Low Voltage Directive  
(2006/95/EU)

\*UL label on request

Data subject to change without notice.

\*\*Consult separate raw material data for more detailed information

More product information including dimensional drawings, 2D CAD/CAM –files, 3D-CAD files  
and PDF product datasheets available at [www.fibox.com](http://www.fibox.com)

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