

## Equipped for all applications

Maximum flexibility and minimum space requirement – these are the key prerequisites for high-performance switchgear and control cabinets in industrial environments. Switchgear cabinet manufacturers have to respond increasingly rapidly to their efficiency-conscious customers' requirements. Simplified configuration, planning and implementation bring you additional competitive advantages. The SIVACON 8MF1 system cubicles were rigorously designed to meet the increased demands placed on control cabinet construction.

The SIVACON 8MF1 modular system enables custom-tailored solutions to be configured for virtually all industrial sectors and applications. Whether fully assembled, adapted according to your specifications, or developed individually, the system cubicles support the individual creation of added value in control cabinet construction. With SIVACON 8MF1, you can also be sure of absolute compliance with relevant standards: The switchgear enclosures meet all currently applicable standards and regulations. Special versions, and control cabinets with various special certifications and specific approvals, as well as variants adapted to specific sectors, can be individually developed.



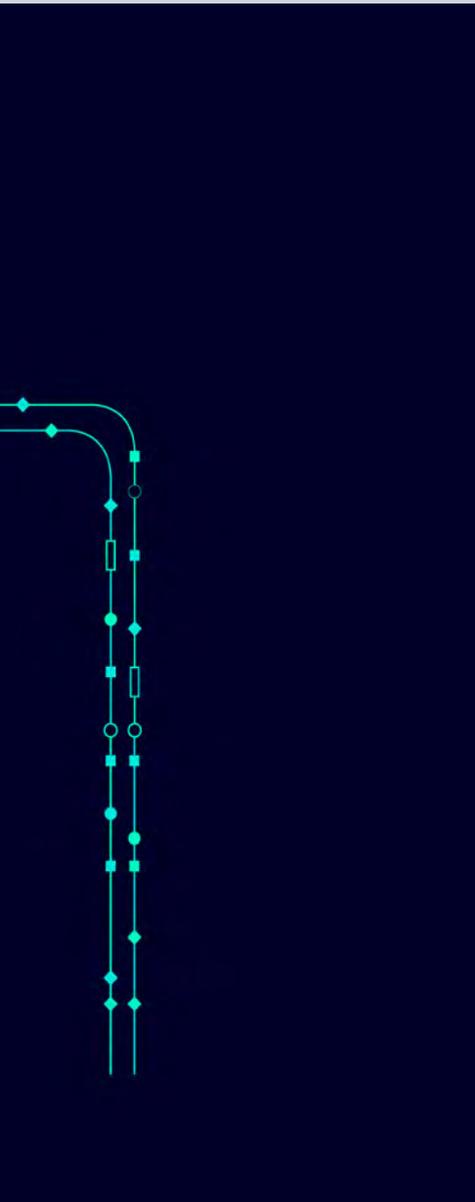
### Note:

Products bearing our Siemens EcoTech label are identified by this clickable symbol in the catalog:



[www.siemens.com/lowvoltage/SiemensEcoTech](http://www.siemens.com/lowvoltage/SiemensEcoTech)

# System Cubicles, System Lighting and System Air-Conditioning



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# A multitude of additional information ...

## Information + ordering

### All the important things at a glance

For information about system cubicles, system lighting and system air-conditioning, please visit our website [www.siemens.com/sivacon-8mf](http://www.siemens.com/sivacon-8mf)

### Your product in detail

The SiePortal platform (knowledge base) provides comprehensive information [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- Brochure
  - SIVACON 8MF1 system cubicles –  
As versatile as your requirements ([109744677](https://www.siemens.com/109744677))

The relevant tender specifications can be found at [www.siemens.com/tenderspecifications](http://www.siemens.com/tenderspecifications)

Use our conversion tool for quick and easy conversion to Siemens products [www.siemens.com/conversion-tool](http://www.siemens.com/conversion-tool)

### Everything you need for your order

Refer to SiePortal to find an overview of your products (product catalog)

- System cubicles [sie.ag/339cQB9](https://sie.ag/339cQB9)

Direct forwarding to the individual products in SiePortal by clicking on the article number in the catalog or entering this web address incl. article number [www.siemens.com/product\\_catalog\\_SIEP?Article No.](http://www.siemens.com/product_catalog_SIEP?Article No.)

### Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SIVACON 8MF1 system cubicle at

[www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

The following are additionally available for your configured SIVACON 8MF1 system cubicle:

- Parts lists
- 2D data
- 3D data

## The fast track to the experts

### Contact persons in your region

We offer a comprehensive portfolio of services. You can find your local contacts at [www.siemens.com/lowvoltage/systems/contact](http://www.siemens.com/lowvoltage/systems/contact)

You will find further information on services at [www.siemens.com/service-offers](http://www.siemens.com/service-offers)

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at [www.siemens.com/support-request](http://www.siemens.com/support-request)

# ... can be found in our online services

## Commissioning + operation

### SIMARIS therm

The SIMARIS therm calculation tool helps you to easily and precisely dimension the heat dissipation of your control panels, simply by entering the ambient air temperature and selecting the relevant devices in the panel. If necessary, you can immediately select the necessary cooling devices and air conditioners. You can also define the necessary heating power for anti-condensation heating  
[www.siemens.com/simaristherm](http://www.siemens.com/simaristherm)

### Ihr Produkt im Detail

The SiePortal platform (knowledge base) provides detailed technical information  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- Operating instructions
- Certificates

Online Support app available for download from the [App Store](#) and [Play Store](#)  
 You will find further information at  
[www.siemens.com/support-app](http://www.siemens.com/support-app)

Provision of 3D data (step and u3d data formats)

- SiePortal (product catalog)  
[www.siemens.com/lowvoltage/product-catalog](http://www.siemens.com/lowvoltage/product-catalog)
- Image database  
[www.siemens.com/lowvoltage/picturedb](http://www.siemens.com/lowvoltage/picturedb)

Engineering data for CAD or CAE systems are available in the CAx Download Manager at  
[www.siemens.com/cax](http://www.siemens.com/cax)

### Technical overview – System cubicles, system lighting and system air-conditioning



#### The fast way to get you to our online services

This page provides you with comprehensive information and links on system cubicles, system lighting and system air-conditioning  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support) (109769091)

# System overview

## System cubicles, system lighting and system air-conditioning

For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

### SIVACON 8MF1 basic cubicles



Basic cubicles, IP40



Basic cubicles, IP55



Ventilated cubicles, IP20



Data cubicles, IP40



Earthquake-resistant cubicles, IP40

### SIVACON 8MF1 configurable enclosures – Frames



Standard frames



Corner frames

### Frame accessories



Bases



Separators



Trim strips



Transport eyebolts



Transport brackets



Cubicle suites

### SIVACON 8MF1 configurable enclosures – Enclosures



Doors



Ventilated doors



Glass doors



Door halves



Compartment doors



Side walls/rear walls



Rooves



Floors

### Enclosure accessories



Roof trays



Covers



Grilles



Strips



Hinges



Rotary handles



Door position switches

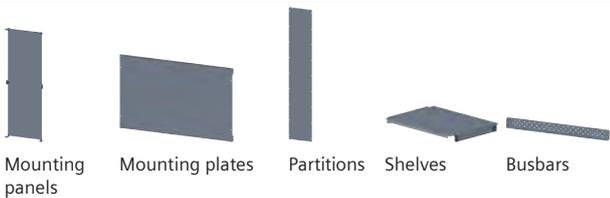


Door stays

#### Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.

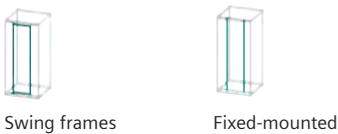
### SIVACON 8MF1 configurable enclosures – Interior installation



### Interior installation accessories



### SIVACON 8MF1 configurable enclosures – 19-inch expansion



### 19-inch expansion accessories



### SIVACON 8MF/8MR system lighting – LED lights



### LED lights accessories



### SIVACON 8MF/8MR system lighting – Slimline lights



### SIVACON 8MR system air-conditioning



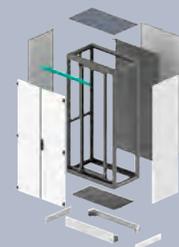
**Note:**  
 You will find a detailed range of accessories with the basic units and in the Accessories section.

# System overview

## SIVACON 8MF1 system cubicles



Standard types



Individual types

Available dimensions				
Height	mm	1800   2000   2200	Special dimensions available on request (max. 2400 mm)	
Width	mm	400   600   800   900   1000   1200	Special dimensions available on request (max. 1600 mm)	
Depth	mm	400   500   600   800   1000	Special dimensions available on request (max. 1200 mm)	
Approvals				
Standards		IEC 62208	IEC 62208	
Protection				
Degree of protection		IP20   IP40   IP55   Shock resistance IK09   Glass doors IK08	IP20   IP21   IP40   IP41   IP42   IP55   Shock resistance IK09   Glass doors IK08	
Protection class		I	I	
Enclosure				
Material		Sheet steel	Sheet steel	
Surface		Zinc-plated   Powder-coated	Zinc-plated   Powder-coated	
Color		RAL 7035 (light gray)	All RAL colors available, other color palettes available on request	
Corrosivity category acc. to EN ISO 12944-2		C3 medium, paint thickness 100 µm (±25 µm)	Up to C5-M very high (marine), paint thickness 150 µm (±25 µm)	
Material thickness				
Frame		2.5 mm	2.5 mm	
Enclosure (without doors)		1.5 mm	≤ 2.5 mm	
Mounting panels		2.5 mm	≤ 3.0 mm	
Mounting plates		2.0 mm	≤ 3.0 mm	
Doors		1.5 mm	≤ 2.0 mm	
EMC attenuation				
EMC attenuation		<a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a>	<a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a>	
Installable module heights (HU = 1 3/4" = 44.45 mm)				
		19" fixed-mounted	19" swing frame	
Height 1800 mm		36 HU	34 HU	On request
Height 2000 mm		41 HU	38 HU	On request
Height 2200 mm		45 HU	43 HU	On request

# Quick selection guide

## Two installation types



### Stand-alone installation

- With side panels  
(lockable in the case of data cubicles)



### Suite installation

- Without side panels

## Four versions



### Basic version

- IP40 or IP55



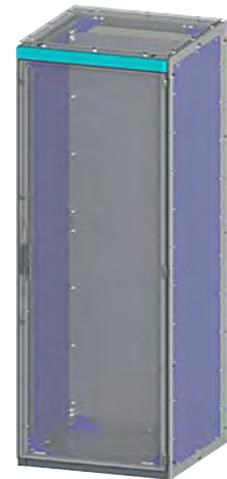
### Ventilated cubicles

- IP20
- Door and roof with ventilation fins



### Data cubicles

- IP40
- Glass door at front
- Section door at rear
- Roof with cable entry
- 19" fixed-mounted



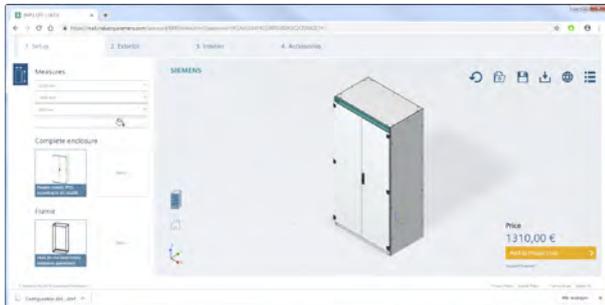
### Earthquake-resistant version

- IP40
- Increased stability

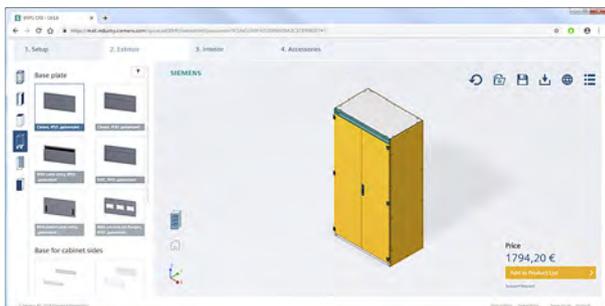
# Online configurator highlights

[www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

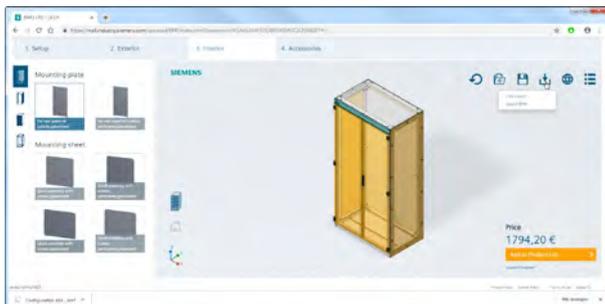
## Graphical configuration directly on the 3D model



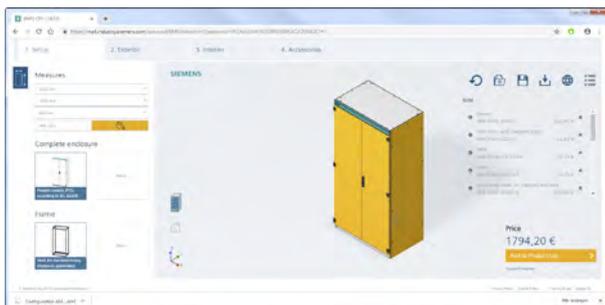
## Customization of the control cabinet with cutouts and color



## Exporting of parts lists and 3D and 2D data



## Dynamic and interactive parts lists



# Structure of the article numbers



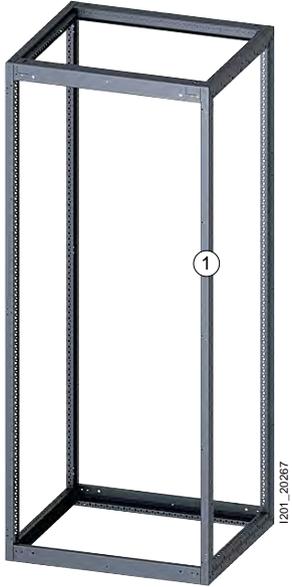
The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

		5	6	7	8	9	10	11
<b>8MF1</b>								
<b>Height</b>	1800 mm	8						
	2000 mm	0						
	2200 mm	2						
<b>Width</b>	400 mm		4					
	600 mm		6					
	800 mm		8					
	900 mm		9					
	1000 mm		0					
	1200 mm		2					
<b>Depth</b>	400 mm			4				
	500 mm			5				
	600 mm			6				
	800 mm			8				
	1000 mm			0				
<b>Version</b>	Basic					B		
	Ventilated					V		
	Data					D		
	Earthquake-resistant					E		
<b>Installation</b>	Stand-alone						S	
	Side by side						R	
<b>Degree of protection</b>	Basic cubicles, data cubicles	IP40						4
		IP55						5
	Ventilated cubicles	IP20						4
	Earthquake-resistant cubicles	IP40						5

# Quick selection guide

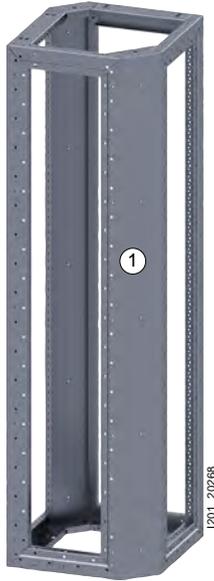
## Frame

For standard enclosure



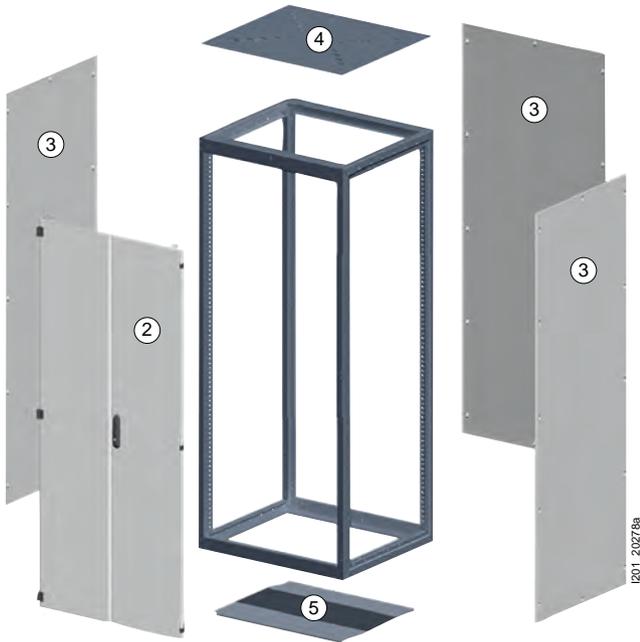
① Frame

For corner enclosure



① Frame

## Enclosure



- ② Door, door half, compartment door
- ③ Side panels, rear panel

- ④ Roof
- ⑤ Floor

# ① Frame



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## For standard enclosure

		8MF1	5	6	7	8	9	10	11	12
			8	6	7	3	G	S		0
Height	1800 mm		8							
	2000 mm		0							
	2200 mm		2							
Width	400 mm			4						
	600 mm			6						
	800 mm			8						
	900 mm			9						
	1000 mm			0						
	1200 mm			2						
Depth	400 mm				4					
	500 mm				5					
	600 mm				6					
	800 mm				8					
	1000 mm				0					
Material, surface	Zinc-plated								3	
	Powder-coated, RAL 7035								4	

## For corner enclosure

		8MF1	5	6	7	8	9	10	11	12
			8	6	7	2	G	E		0
Height	1800 mm		8							
	2000 mm		0							
	2200 mm		2							
Width	400 mm			4						
	600 mm			6						
	800 mm			8						
	1000 mm			0						
Depth	400 mm				5					
	600 mm				7					
	800 mm				0					
	1000 mm				1					
Material, surface	Zinc-plated								3	

# ① Frame



## Accessories

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

### Base



		5	6	7	8	9	10
		8MF1					
Height	100 mm	0					
	200 mm	2					
Width	400 mm		4				
	600 mm		6				
	800 mm		8				
	900 mm		9				
	1000 mm		0				
	1200 mm		2				
Version	Base for cubicles with door at the front and the rear					C	R
	Base and feet for cubicles with door at the front					C	S
	Base for corner cubicle					E	S

### Base cover, lateral



		5	6	7	8	9	10
		8MF1					
Height	100 mm	0					
	200 mm	2					
Depth	400 mm			4			
	500 mm			5			
	600 mm			6			
	800 mm			8			
	1000 mm			0			

The structure shown below is intended as an overview of each position and its meaning.  
For a complete and valid configuration of your system cubicle, please use our online configurator at  
[www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

## Trim strip



		5	6	7	8	9	10	11	12
<b>8MF1</b>		0		0	2	C	D		
<b>Width</b>	400 mm		4						
	600 mm		6						
	800 mm		8						
	900 mm		9						
	1000 mm		0						
	1200 mm		2						
<b>Version</b>	Trim strip petrol	Without Siemens logo, above the door		Without cutout				0	0
		With Siemens logo, left, above the door		Without cutout				1	0
		With Siemens logo, right, above the door		With cutout, left				1	6
		With Siemens logo, left, above the door		With cutout, right				1	7
	Trim strip RAL 7035	Without Siemens logo, below the door		Without cutout				0	8

## Separator

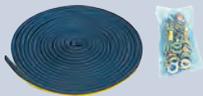
### Separator for vertical division of the enclosure



Height	Article No.
1800 mm	8MF1165-2AT30
2000 mm	8MF1185-2AT30
2200 mm	8MF1205-2AT30

## Mounting accessories

### Accessories for cubicle suites



Version	Degree of protection	Article No.
Screw set	IP40	8MF1000-2CA
Sealing strip	IP40 to IP55	8MF1000-2CB
Side-by-side installation kit	IP40 EMC (IP55 not available)	8MF1000-2CE

### Kit for stabilization of corner connections



Scope of supply	Article No.
8 units	8MF1000-2HF

## Transport accessories

### Transport eyebolts



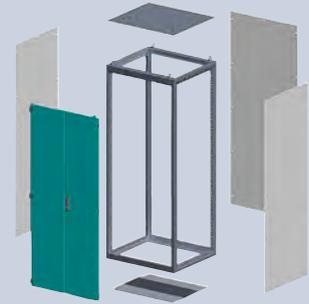
Load bearing capacity	Article No.
Up to 500 kg	8MF1000-2CK

### Transport brackets



Width	Article No.
400 mm	8MF1040-2CW
600 mm	8MF1060-2CW
800 mm	8MF1080-2CW
900 mm	8MF1090-2CW
1000 mm	8MF1000-2CW
1200 mm	8MF1020-2CW

## ② Door, door halves, compartment door



### Door, door halves

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		5	6	7	8	9	10	11	12	13	14	15	16		
		8MF1			0	2	U	T							
Height	1800 mm	8													
	2000 mm	0													
	2200 mm	2													
Width	300 mm		3												
	400 mm		4												
	450 mm		7												
	500 mm		5												
	600 mm		6												
	800 mm		8												
	900 mm		9												
	1000 mm		0												
1200 mm		2													
Door type	Door/inner door								1						
	Door halves (only available with hinging on the left)								2						
Hinge position	Left									5					
	Right									4					
Door version	IP20	With ventilation openings									1	B	A	2	
	IP40	Closed									0	C	A	1	
		With ventilation slits										2	B	A	2
	IP55	Closed										0	B	A	2
		With inspection window <i>Strips for door reinforcement cannot be mounted</i>										0	B	E	2
	IPxx	With cutout 292 × 292 mm (up to IP55) for filter fan										3	B	A	2
	–	Inner door, closed (up to 800 mm wide)										4	B	A	2

## Compartment door

The structure shown below is intended as an overview of each position and its meaning.  
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		5	6	7	8	9	10	11	12	13	14	15	16
<b>8MF1</b>				0	2	U	T	3	4	0	B	A	2
<b>Compartment height</b>	300 mm	3											
	400 mm	4											
	500 mm	5											
	600 mm	6											
	700 mm	7											
	800 mm	8											
	900 mm	9											
	1000 mm	0											
	1100 mm	1											
1200 mm	2												
<b>Width</b>	600 mm		6										
	800 mm		8										

## ② Door, door halves, compartment door



### Accessories

Door shelves					
	<ul style="list-style-type: none"> <li>Multi-purpose door bars required for mounting</li> <li>Shelf: RAL 7035</li> </ul>				
	For door width	Mounting location			Article No.
		Door	Door halves	Compartment door	
600 mm	■	■	–	8MF1060-2VP	
800 mm	■	■	–	8MF1080-2VP	
Grilles					
	<ul style="list-style-type: none"> <li>To upgrade degree of protection from IP2x to IP4x</li> <li>Surface: zinc-plated</li> </ul>				
	Width	Mounting location			Article No.
		Door	Door halves	Compartment door	
	300 mm	■	■	–	8MF1030-2HM
	400 mm	■	■	–	8MF1040-2HM
	450 mm	■	■	–	8MF1070-2HM
	500 mm	■	■	–	8MF1050-2HM
	600 mm	■	■	–	8MF1060-2HM
800 mm	■	■	–	8MF1080-2HM	
900 mm	■	■	–	8MF1090-2HM	
Strips					
	<ul style="list-style-type: none"> <li>For door reinforcement</li> <li>Surface: zinc-plated</li> <li>Cannot be used for glass doors</li> </ul>				
	Height	Mounting location			Article No.
		Door	Door halves	Compartment door	
	1800 mm	■	■	–	8MF1008-2VM
2000 mm	■	■	–	8MF1000-2VM	
2200 mm	■	■	–	8MF1002-2VM	
Door position switches					
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
	1 NO + 1 NC (incl. 3SE5232-0HC05)	■	■	■	8MF1000-2VL
1 NO + 2 NC (incl. 3SE5232-0LC05)	■	■	■	8MF1000-2VR	
Circuit diagram pockets					
	<ul style="list-style-type: none"> <li>Cannot be used for glass doors</li> </ul>				
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
Plastic	■	■	–	8MF1000-2VK	
Steel, zinc-plated	■	■	–	8MF1000-2VU	
Limit plates					
	For a number n of compartment doors, n–1 limit plates are additionally required. Please order separately.				
	Width	Mounting location			Article No.
		Door	Door halves	Compartment door	
600 mm	–	–	■	8MF1060-2AK14-0	
800 mm	–	–	■	8MF1080-2AK14-0	
Door stays					
	<ul style="list-style-type: none"> <li>With variable opening angle: 90°, 120° and 150°</li> <li>Surface: zinc-plated</li> </ul>				
	Mounting location			Article No.	
	Door	Door halves	Compartment door		
■	■	–	8MF1000-2VG		
Rotary handles					
	Version	Mounting location			Article No.
		Door	Door halves	Compartment door	
	With button insert and eye for padlock (Lock not included in 8MF portfolio)	■	–	–	8MF1000-2VN

## Rotary handle inserts

- Not suitable for door halves



Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
Double-bit key 3 mm	■	–	–	8MF1000-2VA
Square key 8 mm	■	–	–	8MF1000-2VC
Triangular key 8 mm	■	–	–	8MF1000-2VD
Daimler	■	–	–	8MF1000-2VE
Cylinder lock	■	–	–	8MF1000-2VF

## Spare part door

## Hinge sets



Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
For left-hand hinge (1 set = 3 units)	■	■	■	8MF1000-2VT
For right-hand hinge (1 set = 3 units)	■	■	■	8MF1000-2VW

## Rotary handles



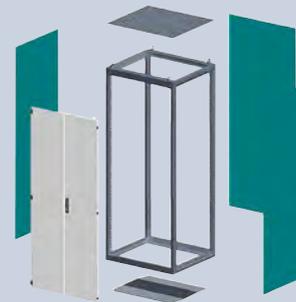
Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
With button insert	■	–	–	8MF1000-2VP

## Grounding cables for doors



Cable cross-section	Mounting location			Article No.
	Door	Door halves	Compartment door	
6 mm <sup>2</sup>	■	■	■	8MF1010-2HD3

### ③ Side/rear walls and partition

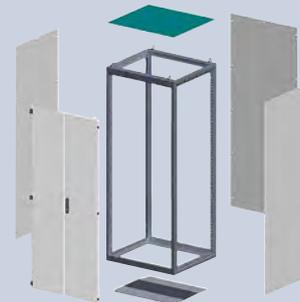


The structure shown below is intended as an overview of each position and its meaning.  
For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

8MF1				5	6	7	8	9	10	11	12	13	14
<b>Height</b>		1800 mm		8									
		2000 mm		0									
		2200 mm		2									
<b>Width</b>		400 mm			4								
		500 mm			5								
		600 mm			6								
		800 mm			8								
		900 mm			9								
		1000 mm/No selection available for partitions			0								
		1200 mm			2								
<b>Depth</b>		No value				0							
		400 mm				4							
		500 mm				5							
		600 mm				6							
		800 mm				8							
		1000 mm/No selection available for side panels				0							
<b>Side wall/ rear wall</b>	IP40	Closed	Without seal							6	0	1	C
			EMC seal							6	2	1	B
		Flat								6	3	1	C
	IP55	Closed	Foamed seal							6	1	1	C
<b>Partition</b>		Closed	Without seal							7	0	3	C



## ④ Roof



The structure shown below is intended as an overview of each position and its meaning.  
For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

### For standard systems

				5	6	7	8	9	10	11	12	13	14	
				0			2	U	D					
<b>8MF1</b>														
<b>Width</b>	400 mm			4										
	600 mm			6										
	800 mm			8										
	900 mm			9										
	1000 mm			0										
	1200 mm			2										
<b>Depth</b>	400 mm					4								
	500 mm					5								
	600 mm					6								
	800 mm					8								
	1000 mm					0								
<b>Version</b>	IP20	Perforated	Without seal							2	0	0	A	
		Closed	Without seal							1	0	0	A	
	IP40		EMC seal							1	2	0	A	
		With ventilation fins	Without seal							3	0	0	A	
	IP55	Closed		Foamed seal							1	1	0	A

### For corner enclosure

				5	6	7	8	9	10	11	12	13	14
				0	0		2	U	E				
<b>8MF1</b>													
<b>Width/depth</b>	400/400 mm					4							
	600/600 mm					6							
	800/800 mm					8							
	1000/1000 mm					0							
<b>Version</b>	For corner cubicle	IP20	With ventilation openings							2	0	0	A
		IP40	Closed							1	0	0	A
		With ventilation openings								3	0	0	A
	IP55	Closed								1	1	0	A

## Accessories

### Roof trays

#### Roof trays for increasing the degree of protection, IPX1



Width	Depth	Article No.
400 mm	400 mm	8MF1044-2VH
	500 mm	8MF1045-2VH
	600 mm	8MF1046-2VH
	800 mm	8MF1048-2VH
	1000 mm	8MF1040-2VH
600 mm	400 mm	8MF1064-2VH
	500 mm	8MF1065-2VH
	600 mm	8MF1066-2VH
	800 mm	8MF1068-2VH
	1000 mm	8MF1060-2VH
800 mm	400 mm	8MF1084-2VH
	500 mm	8MF1085-2VH
	600 mm	8MF1086-2VH
	800 mm	8MF1088-2VH
	1000 mm	8MF1080-2VH
900 mm	400 mm	8MF1094-2VH
	500 mm	8MF1095-2VH
	600 mm	8MF1096-2VH
	800 mm	8MF1098-2VH
	1000 mm	8MF1090-2VH
1000 mm	400 mm	8MF1004-2VH
	500 mm	8MF1005-2VH
	600 mm	8MF1006-2VH
	800 mm	8MF1008-2VH
	1000 mm	8MF1000-2VH
1200 mm	400 mm	8MF1024-2VH
	500 mm	8MF1025-2VH
	600 mm	8MF1026-2VH
	800 mm	8MF1028-2VH
	1000 mm	8MF1020-2VH

### Roof tray rims

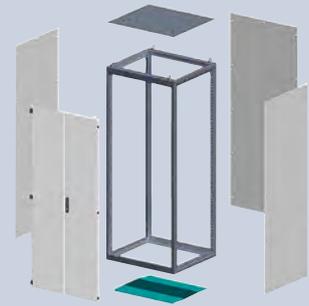
#### Roof tray rims for cubicle side, IPX1



Each cubicle or cubicle group with a roof tray requires two roof tray rims.  
(1 set = 2 units)

Depth	Article No.
400 mm	8MF1004-2VB
500 mm	8MF1005-2VB
600 mm	8MF1006-2VB
800 mm	8MF1008-2VB
1000 mm	8MF1000-2VB

# ⑤ Floor



The structure shown below is intended as an overview of each position and its meaning.  
For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

## For standard enclosure

		8MF1	5	6	7	8	9	10	11	12	13
		0				2	U	B			
Width	400 mm		4								
	600 mm		6								
	800 mm		8								
	900 mm		9								
	1000 mm		0								
	1200 mm		2								
Depth	400 mm			4							
	500 mm			5							
	600 mm			6							
	800 mm			8							
	1000 mm			0							
Version	IP30 Closed, divided								2	2	0
	IP40 Closed EMC seal								4	2	0
	IP55 Closed Seal								1	2	0
	IPxx With cable entry, rear <sup>1)</sup>								3	2	0
	With cable entry, lateral and rear <sup>2)</sup>								5	1	2
With cut-outs for flanges								5	2	0	

<sup>1)</sup> Version available from depth ≥ 600 mm, max. opening area at rear = 87 mm (without foam rubber)

<sup>2)</sup> Version available from width ≥ 600 mm and depth ≥ 600 mm, max. opening area at rear = 87 mm and at side = 100 mm (without foam rubber)

## For corner enclosure

		8MF1	5	6	7	8	9	10	11	12	13
		0				2	U	E		1	0
Depth	400 mm				4						
	600 mm				6						
	800 mm				8						
	1000 mm				0						
Degree of protection	IP40								2		
	IP55								1		



# Mounting panels



The structure shown below is intended as an overview of each position and its meaning.  
For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

For mounting plate at rear, depth adjustable <sup>1)</sup>

		5	6	7	8	9	10	11	12	13
		8MF1		0	2	A	L		3	0
Cubicle height	1800 mm	8								
	2000 mm	0								
	2200 mm	2								
Cubicle width	400 mm		4							
	600 mm		6							
	800 mm		8							
	900 mm		9							
	1000 mm		0							
	1200 mm		2							
Version	Non-perforated							0		
	Perforated							1		

<sup>1)</sup> Center mounting only possible when mounted at rear or in conjunction with mounting rail (50), if the mounting plate is installed offset in the depth direction

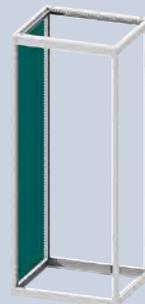
## Accessories

### Mounting panel adapters



- For connecting side-by-side mounting panels
- Surface: zinc-plated

Height	Article No.
1800 mm	8MF1800-2CH
2000 mm	8MF1000-2CH
2200 mm	8MF1200-2CH



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

### For side mounting plate

		5	6	7	8	9	10	11	12	13
<b>8MF1</b>			0		2	A	K		3	0
Cubicle height	1800 mm	8								
	2000 mm	0								
	2200 mm	2								
Depth	400 mm			4						
	500 mm			5						
	600 mm			6						
	800 mm			8						
	1000 mm			0						
Version	Non-perforated							0		
	Perforated							1		

# Mounting plates



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your system cubicle, please use our online configurator at [www.siemens.com/lowvoltage/8mf1-configurator](http://www.siemens.com/lowvoltage/8mf1-configurator)

		5	6	7	8	9	10	11	12	13
		8MF1		0	2	A				0
<b>Height</b>	100 mm	1								
	200 mm	2								
	300 mm	3								
	400 mm	4								
	600 mm	6								
	800 mm	8								
<b>Width</b>	400 mm		4							
	600 mm		6							
	800 mm		8							
	900 mm		9							
	1000 mm		0							
	1200 mm		2							
<b>Installation location</b>	Fixed with zinc die-cast parts between the bars of the frame or mounting rails (50)						M			
	Fixed directly to the frame or mounting rails (50)						A			
<b>Version</b>	Non-perforated							0		
	Perforated							1		
<b>Material</b>	2.0 mm sheet steel									2

# Mounting rails



## Mounting rails (50)



Length	Version	Article No.
250 mm	Suitable for cubicle depth 400 mm	8MF1025-2AS30
325 mm	Suitable for cubicle width 400 mm	8MF1032-2AS30
350 mm	Suitable for cubicle depth 500 mm	8MF1035-2AS30
425 mm	–	8MF1042-2AS30
450 mm	Suitable for cubicle depth 600 mm	8MF1045-2AS30
525 mm	Suitable for cubicle width 600 mm	8MF1052-2AS30
550 mm	–	8MF1055-2AS30
625 mm	–	8MF1062-2AS30
650 mm	Suitable for cubicle depth 800 mm	8MF1065-2AS30
725 mm	Suitable for cubicle width 800 mm	8MF1072-2AS30
750 mm	–	8MF1075-2AS30
825 mm	Suitable for cubicle width 900 mm	8MF1082-2AS30
850 mm	Suitable for cubicle depth 1000 mm	8MF1085-2AS30
925 mm	Suitable for cubicle width 1000 mm	8MF1092-2AS30
1050 mm	–	8MF1105-2AS30
1125 mm	Suitable for cubicle width 1200 mm	8MF1112-2AS30
1250 mm	–	8MF1125-2AS30
1350 mm	–	8MF1135-2AS30
1450 mm	–	8MF1145-2AS30
1550 mm	–	8MF1155-2AS30
1650 mm	Suitable for cubicle height 1800 mm	8MF1165-2AS30
1750 mm	–	8MF1175-2AS30
1850 mm	Suitable for cubicle height 2000 mm	8MF1185-2AS30
1950 mm	–	8MF1195-2AS30
2050 mm	Suitable for cubicle height 2200 mm	8MF1205-2AS30
2150 mm	–	8MF1215-2AS30
2250 mm	–	8MF1225-2AS30

## Mounting rails (25)



Version	Length	Article No.
Suitable for cubicle width	600 mm	8MF1056-2AS30
	1000 mm	8MF1096-2AS30
	1200 mm	8MF1006-2AS30
Suitable for door width	300 mm	8MF1016-2AS30
	400 mm	8MF1026-2AS30
	450 mm	8MF1031-2AS30
	500 mm	8MF1036-2AS30
	600 mm	8MF1046-2AS30
	800 mm	8MF1066-2AS30
	900 mm	8MF1076-2AS30
	1000 mm	8MF1086-2AS30

## Mounting rails, serrated



Version	Article No.
Flat	8MF1060-2HC13-0
	8MF1080-2HC13-0
	8MF1090-2HC13-0
	8MF1000-2HC13-0
	8MF1020-2HC13-0
	8MF1060-2HC03-0
U-shape	8MF1080-2HC03-0
	8MF1090-2HC03-0
	8MF1000-2HC03-0
	8MF1020-2HC03-0

## Mounting rails, heavy duty



- Can be installed in the cubicle depth and width (the length corresponds to the appropriate cubicle dimension)

Length	Article No.
600 mm	8MF1060-2AH60
800 mm	8MF1080-2AH60
900 mm	8MF1090-2AH60
1000 mm	8MF1000-2AH60
1200 mm	8MF1020-2AH60

# General accessories interior installation



## Telescopic rails



- For withdrawable shelves

For cubicle depth	Article No.
400 mm and 600 mm	8MF1003-2HF
800 mm and 1000 mm	8MF1006-2HF

## Mounting brackets



- For mounting expansion elements

Article No.
8MF1000-2CP

## Earthquake assembly kits



For stabilization of	Article No.
Corner connections	8MF1000-2HA

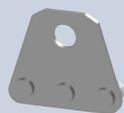


Intermediate panel	8MF1000-2HW
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19" fixed-mounted	8MF1000-2HE
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## Grounding plates



- For fixing to the frame (although fixing points for ground connection are already provided on the frame)

Article No.
8MF1000-2HK

## Grounding bars



Version	Width	Article No.
30 × 10 mm <sup>2</sup>	600 mm	8MF1060-2HD2
	800 mm	8MF1080-2HD2
	900 mm	8MF1090-2HD2
	1000 mm	8MF1000-2HD2
	1200 mm	8MF1020-2HD2
30 × 5 mm <sup>2</sup>	600 mm	8MF1060-2HD1
	800 mm	8MF1080-2HD1
	900 mm	8MF1090-2HD1
	1000 mm	8MF1000-2HD1
	1200 mm	8MF1020-2HD1

## Grounding screws



Thread	Article No.
M12	8MF1000-2HB

## Grounding straps



Cross-section	Length	Perforation	Article No.
16 mm <sup>2</sup>	300 mm	6.5 mm on both sides	8MF1000-2HK1
16 mm <sup>2</sup>	300 mm	6.5 mm and 8.5 mm	8MF1000-2HK2

## Universal sheets



- Incl. DIN rail; e.g. for mounting a heater unit

Article No.
8MF1000-2HG

## DIN rails



- For mounting modular installation devices

Height	Article No.
7.5 mm	8MF1500-2HS
15 mm	8MF1100-2HS

## Insulated supports



Thread	Dimensions	Article No.
M8	D 40 × 50 mm	8MF1000-2VY

## Cable clamping rails

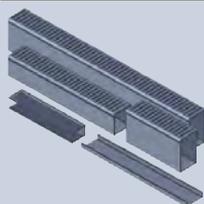


Height	Width	Depth	Article No.
30 mm	600 mm	–	8MF1360-2HH
	800 mm	–	8MF1380-2HH
	900 mm	–	8MF1390-2HH
	1000 mm	–	8MF1310-2HH
	1200 mm	–	8MF1320-2HH
	–	400 mm	8MF1304-2HH
	–	600 mm	8MF1306-2HH
	–	800 mm	8MF1308-2HH
	–	1000 mm	8MF1301-2HH
	40 mm	600 mm	–
800 mm		–	8MF1480-2HH
900 mm		–	8MF1490-2HH
1000 mm		–	8MF1410-2HH
1200 mm		–	8MF1420-2HH
–		400 mm	8MF1404-2HH
–		600 mm	8MF1406-2HH
–		800 mm	8MF1408-2HH
–		1000 mm	8MF1401-2HH
50 mm		600 mm	–
	800 mm	–	8MF1580-2HH
	900 mm	–	8MF1590-2HH
	1000 mm	–	8MF1510-2HH
	1200 mm	–	8MF1520-2HH
	–	400 mm	8MF1504-2HH
	–	600 mm	8MF1506-2HH
	–	800 mm	8MF1508-2HH
	–	1000 mm	8MF1501-2HH

# General accessories interior installation



## Cable ducts



Version	Color	Height	Width	Article No.
Halogen-free	RAL 7035	37.5 mm	25 mm	8MF1120-2HL7
		50 mm	25 mm	8MF1220-2HL7
			37.5 mm	8MF1240-2HL7
			50 mm	8MF1250-2HL7
			75 mm	8MF1260-2HL7
		75 mm	50 mm	8MF1350-2HL7
			75 mm	8MF1360-2HL7
			100 mm	8MF1370-2HL7
			125 mm	8MF1380-2HL7
			100 mm	75 mm
Standard	RAL 7030		37.5 mm	25 mm
		50 mm	25 mm	8MF1220-2HL6
			37.5 mm	8MF1240-2HL6
			50 mm	8MF1250-2HL6
			75 mm	8MF1260-2HL6
		75 mm	50 mm	8MF1350-2HL6
			75 mm	8MF1360-2HL6
			100 mm	8MF1370-2HL6
			125 mm	8MF1380-2HL6
			100 mm	75 mm

## Edge protection



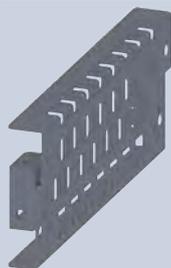
Dimensions	Length	Article No.
9.5 × 6.5 mm	5 m	8MF1000-2CD

## Mounting plates



Dimensions	Version	Article No.
122 × 91 mm	Standard	8MF1000-2HH
122 × 92 mm	With DIN rail	8MF1000-2HH1

## Buses for improving EMC



Installation in	Width	Depth	Article No.
Cubicle width	400 mm	–	8MF1040-2HN
	600 mm	–	8MF1060-2HN
	800 mm	–	8MF1080-2HN
	900 mm	–	8MF1090-2HN
	1000 mm	–	8MF1000-2HN
	1200 mm	–	8MF1020-2HN
Cubicle depth	–	400 mm	8MF1004-2HN
	–	600 mm	8MF1006-2HN
	–	800 mm	8MF1008-2HN
	–	1000 mm	8MF1001-2HN

Brackets		
	• For variable mounting of cable clamping rails	
		Article No. 8MF1000-2HH5
Toothed bars		
	• For installation on mounting rail	
	Length 100 mm	Article No. 8MF1000-2HC
Contact washers		
	• Size 6	
	Scope of supply 100 units	Article No. 8MF1000-2VJ
Screws		
	• M6 × 12	
	Scope of supply 100 units	Article No. 8MF1000-2VS
Adapters for wiring systems		
	Version	Article No.
	For Lütze wiring system	8MF1000-2HL
	For Promet wiring system	8MF1000-2HP

# 19-inch expansion



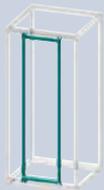
## Cubicle frames



- For the installation of 19" devices, screwed
- In combination with 2 mounting rails, heavy duty in cubicle width (order mounting rail separately, [see page 17/27](#))
- For cubicle width  $\geq 600$  mm

Surface	Height	For mounting height	Article No.
Zinc-plated	400 mm	7 HU	8MF1100-2AN30
	600 mm	12 HU	8MF1200-2AN30
	800 mm	16 HU	8MF1300-2AN30
	1000 mm	21 HU	8MF1400-2AN30
	1200 mm	25 HU	8MF1500-2AN30
	1400 mm	30 HU	8MF1600-2AN30
	1800 mm	36 HU	8MF1700-2AN30
	2000 mm	41 HU	8MF1800-2AN30
	2200 mm	45 HU	8MF1900-2AN30

## Swing frames



- For the installation of 19" devices, screwed
- Left-hand/right-hand hinge
- In combination with 2 mounting rails, heavy duty in cubicle width (order mounting rail separately)
- For cubicle width  $\geq 800$  mm

Version	Surface	Height	For mounting height	Article No.
Screwed <sup>1)</sup>	Zinc-plated	1800 mm	34 HU	8MF1800-2AR02-4
		2000 mm	38 HU	8MF1000-2AR02-4
		2200 mm	43 HU	8MF1200-2AR02-4
	Powder-coated	1800 mm	34 HU	8MF1800-2AR02-3
		2000 mm	38 HU	8MF1000-2AR02-3
		2200 mm	43 HU	8MF1200-2AR02-3
Welded <sup>2)</sup>	Powder-coated	1800 mm	34 HU	8MF1800-2AR02-2
		2000 mm	38 HU	8MF1000-2AR02-2
		2200 mm	43 HU	8MF1200-2AR02-2

<sup>1)</sup> Interlocking with 3 mm double-bit key

<sup>2)</sup> Spring interlocking at top and bottom

## Accessories

### Universal supports



Version	For mounting height	Article No.
For cable channel, DIN rail and C rail	1 HU	8MF1000-2HH2



	2 HU	8MF1000-2HH3
--	------	--------------



For cable channel, DIN rail, C rail and lamp		8MF1000-2HH4
--	--	--------------

Covers					
Version	Surface	For mounting height		Article No.	
	Closed	RAL 7035	1 HU	8MF1000-2AB01	
			2 HU	8MF1000-2AB02	
			3 HU	8MF1000-2AB03	
			4 HU	8MF1000-2AB04	
			5 HU	8MF1000-2AB05	
			6 HU	8MF1000-2AB06	
			7 HU	8MF1000-2AB07	
	With ventilation openings	RAL 7035	2 HU	8MF1000-2AB32	
			3 HU	8MF1000-2AB33	
	For modular installation devices, for 24 modular widths	RAL 7035	3 HU	8MF1000-2AB31	
Frames					
Version	Surface	For mounting height		Article No.	
	For mounting test switches, 19"	RAL 7035	7 HU	8MF1000-2AB30	
Covers for frames					
Version	Surface			Article No.	
	For mounting 7XP 1/6 standard devices	RAL 7035			8MF1000-2AB34
	For mounting 7XP 2/6 standard devices	RAL 7035			8MF1000-2AB35
	For mounting 7XP 3/6 standard devices	RAL 7035			8MF1000-2AB36
Shelves					
	• For 19" frame				
	Version	Surface	For mounting height	Depth	Article No.
	Non-adjustable	Zinc-plated	3 HU	230 mm	8MF1000-2AB12
				400 mm	8MF1000-2AB14
Withdrawable	RAL 7035	1 HU	8MF1000-2HF12		
Slide rails					
Version	Depth			Article No.	
	For 19" fixed-mounted (double mounting at front and rear)	400 mm			8MF1004-2HG12
		600 mm			8MF1006-2HG12
		800 mm			8MF1008-2HG12
		1000 mm			8MF1000-2HG12
	For 19" fixed-mounted and for 19" swing frame			8MF1000-2HS12	
Device panels					
Version	Surface	Height	Width	Article No.	
	Zinc-plated	1800 mm	100 mm	8MF1810-2AB00	
			150 mm	8MF1850-2AB00	
			200 mm	8MF1820-2AB00	
		2000 mm	100 mm	8MF1010-2AB00	
			150 mm	8MF1050-2AB00	
			200 mm	8MF1020-2AB00	
		2200 mm	100 mm	8MF1210-2AB00	
			150 mm	8MF1250-2AB00	
			200 mm	8MF1220-2AB00	

# Quick selection guide

## Standard LED lights

The LED lights offer optimum lighting conditions for installation and maintenance. The LED technology is energy-efficient and maintenance-free. The connection is established via a 2-pin plug with lock. Through-wiring is possible.

### Magnetic fixing

Easy installation at any point on the steel cubicle

### Screw fixing

Fixed installation in the case of impact loads or high vibration levels

### Clip fixing

The lamp is snapped into the clip bracket and can be turned in both directions

#### With motion detector

The lights switch on when the door is opened, enabling work in the cubicle to be started immediately



#### With on-off switch

Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components



## Ecoline LED lights

The Ecoline LED lights do not differ from the standard LED lights in terms of luminosity and mounting system. The connection is made via a 2-pole clamping terminal.

### Magnetic fixing

Easy installation at any point on the steel cubicle

### Screw fixing

Fixed installation in the case of impact loads or high vibration levels

### Clip fixing

The lamp is snapped into the clip bracket and can be turned in both directions

#### With motion detector

The lights switch on when the door is opened, enabling work in the cubicle to be started immediately



#### With on-off switch

Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components



#### Without switching function

Prepared for the use of an external switch



## Slimline lights

The Slimline lights are an alternative with an energy-saving lamp and are available as a version with an integrated socket.

	Screw fixing	Magnetic fixing
<b>With motion detector and socket</b> The lights switch on when the door is opened, enabling work in the cubicle to be started immediately		
<b>With on-off switch and socket</b> Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components		

# LED lights

## Standard

### Magnetic fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0A
	24 ... 48 V DC	VDE	8MR2201-0A
With on-off switch	100 ... 240 V AC, 50/60 Hz	VDE, UL	8MR2200-1A
	24 ... 48 V DC	VDE, UL	8MR2201-1A

### Screw fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0B
	24 ... 48 V DC	VDE	8MR2201-0B
With on-off switch	100 ... 240 V AC, 50/60 Hz	VDE, UL	8MR2200-1B
	24 ... 48 V DC	VDE, UL	8MR2201-1B

### Clip fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0C
	24 ... 48 V DC	VDE	8MR2201-0C
With on-off switch	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-1C
	24 ... 48 V DC	VDE	8MR2201-1C

## Accessories

### Cables

#### Connecting cables with socket and open end



- For connection of an LED light (switch side)
- Length 2 m

Version	Cross-section	Standard	Article No.
AC connecting cable	2 × 1.5 mm <sup>2</sup>	VDE	8MR2210-1B
	AWG 16	VDE, UL	8MR2210-2B
DC connecting cable	2 × 1.5 mm <sup>2</sup>	VDE	8MR2210-3B
	AWG 16	VDE, UL	8MR2210-4B

#### Extension cables with socket and plug



- For looping through to another LED light
- Length 1 m

Version	Cross-section	Standard	Article No.
AC plastic-sheathed cable	2 × 1.5 mm <sup>2</sup>	VDE	8MR2210-1C
	AWG 16	VDE, UL	8MR2210-2C
DC plastic-sheathed cable	2 × 1.5 mm <sup>2</sup>	VDE	8MR2210-3C
	AWG 16	VDE, UL	8MR2210-4C

### Individual plugs or sockets for self-assembly of cables

#### For connection of an LED light (switch side)



Version	Application	Standard	Color	Article No.
AC socket	For input side	VDE	White	8MR2210-1A
DC socket	For input side	VDE	Blue	8MR2210-3A

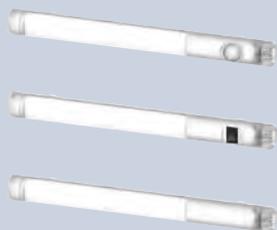
#### For looping through to another LED light



Version	Application	Standard	Color	Article No.
AC connector	For output side	VDE	White	8MR2210-2A
DC connector	For output side	VDE	Blue	8MR2210-4A

## Ecoline

### Magnetic fixing



Version	Voltage		Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-0A
	24 ... 48 V DC		8MR2301-0A
With on-off switch	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-1A
	24 ... 48 V DC		8MR2301-1A
Without switching function	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-3A
	24 ... 48 V DC		8MR2301-3A

### Screw fixing



Version	Voltage		Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-0B
	24 ... 48 V DC		8MR2301-0B
With on-off switch	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-1B
	24 ... 48 V DC		8MR2301-1B
Without switching function	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-3B
	24 ... 48 V DC		8MR2301-3B

### Clip fixing



Version	Voltage		Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-0C
	24 ... 48 V DC		8MR2301-0C
With on-off switch	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-1C
	24 ... 48 V DC		8MR2301-1C
Without switching function	100 ... 240 V AC, 50/60 Hz	90 ... 110 V DC	8MR2303-3C
	24 ... 48 V DC		8MR2301-3C

# Slimline lights

## Magnetic fixing (approx. 30 N)



Version	Voltage	Standard	Article No.
With motion detector and socket	230 V AC, 50/60 Hz	VDE	8MF5910-1C
With on-off switch and socket	230 V AC, 50/60 Hz	VDE	8MF5900-1C

## Screw fixing



Version	Voltage	Standard	Article No.
With motion detector and socket	230 V AC, 50/60 Hz	VDE	8MF5910-1A
Slimline lights with on-off switch and socket	230 V AC, 50/60 Hz	VDE	8MF5900-1A

