

CAMPING-/MARINA PROGRAM





Forward-looking connection system from a dynamic and flexible expert for supply systems.





The MOSER columns are standard compliant.

Electrical installation on campsites has become increasingly important in recent years. Nationally and internationally valid standards and regulations are extremely important here and compliance with them is of great significance.

Excerpt of some regulations for power distributors in campsites.

- Section 7 Each socket outlet must be protected by its own residual-current device with a rated differential current IΔN ≤ 30 mA. The selected device shall disconnect all active conductors including the neutral conductor.
- Section 10.1 Electrical equipment on a caravan site or camping site must either itself comply with at least protection class IP44 or be installed in an appropriate enclosure.
- Section 12.1 Industrial plugs and socket-outlets shall be used that meet the requirements of ÖVE/ÖNORM EN 60309-2.
 All sockets shall be at least IP44 rated or such protection shall be provided by an enclosure.
- Section 12.2 All electrical outlets shall be located as close as possible to the caravan site or tent site to be supplied. Electrical outlets shall be located in the distribution or in a separate enclosure.
- Section 12.3 To avoid hazards from long extension cords, a maximum of 4 receptacles may be combined in one enclosure.
- Section 12.5 In general, single-phase receptacles with a rated voltage up to AC 250 V and a rated current of 16 A shall be provided.
- Section 12.6 The bottom edge of each receptacle shall be located at a height between 0.5 m and 1.5 m from the floor. In special cases with extreme environmental conditions, it is permitted to exceed the maximum height of 1.5 m. In these cases, special measures must be taken to ensure that plugging and unplugging is safe.

MS10 Camping-/Marina column

This column represents both: a cost effective and at the same time an elegant solution for power supply on camping sites. Due to its timeless and slim design, it fits perfectly into almost any outdoor area. It is suitable for holding one to four power outlets. The column is used if the sub-distribution is already available on site.



Technical data

- Dimensions profile cross-section: 100x50mm (WxD)
- Dimensions height:
- Color:
- Material:
- Ingress protection:
- Protection class:
- 100x50mm (WxD) variable silver, anthracite Aluminum, anodized E6/EV1 IP44

Structure of the column

- Closed aluminum profile
- Upper end cover
- Base plate for mounting on every solid underground
- incl. mounting material
- incl. equipotential bonding

Sockets

The installed CEE sockets have an eyelet, in which a padlock can be attached if required.



Options

- Height according to customer requirements
- Also available as empty column
- Customized versions on request
- Available in RAL oder DB colors on request

Component parts

 Ground element for use on unpaved ground with cable inlet (installation depth 500mm)







Item no. MB10050020

Item no. MB50807115		
	Dimensions:	100x50x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 × CEE 16A 3P 230V
	Max. back-up fuse:	16A (with RCD 0,03A on-site)
	Power supply terminals:	2x3x4qmm
	Weight:	approx. 2,6kg
	Weight.	
em no. MB50807115C	Dimensional	
	Dimensions:	100x50x800mm (WxDxH)
-	Color:	anthracite
89 C	Ingress protection:	IP44
*	Equipment:	2 x CEE 16A 3P 230V
	Max. back-up fuse:	16A (with RCD 0,03A on-site)
	Power supply terminals:	2x3x4qmm
	Weight:	approx. 2,6kg
em no. MB51007116		
(in)	Dimensions:	100x50x1000mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V
	Max. back-up fuse:	16A (with RCD 0,03A on-site)
	Power supply terminals:	2x3x4qmm
	Weight:	approx. 3kg
em no. MB51007116C		
m	Dimensions:	100x50x1000mm (WxDxH)
2	Color:	anthracite
÷.	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V
	Max. back-up fuse:	16A (with RCD 0,03A on-site)
	Power supply terminals:	2x3x4qmm

approx. 3kg

Weight:



Picture shows the column, height 1000mm

MS18 Camping-/Marina column

The timeless and attractive design of the column contributes to a positive appearance at any campsite and docks. Due to the possibility to equip the columns with light components, a jetty lighting can be realized at the same time - this invites to pleasant evening walks on the jetties at dusk.



Technical data

- Dimensions profile cross-section: 180x100mm (WxD)
- Dimensions height:
- Color:
- Material:
- Ingress protection:
- Protection class:
- variable silver Aluminum, anodized E6/EV1 IP44
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Structure of the column

- Closed aluminum profile
- Upper end cover
- Base plate for mounting on every solid underground
- incl. mounting material
- incl. equipotential bonding

Sockets

The installed CEE sockets have an eyelet, in which a padlock can be attached if required.



Options

- LED orientation or mounting light (starting on page 12)
- Height according to customer requirements
- Distribution modules
- Also available as empty column
- Customized versions on request
- Available in RAL oder DB colors on request

Component parts

 Ground element for use on unpaved ground with cable inlet (installation depth 500mm)





Item no. MD10100004



MS18 Camping-/Marina	columns - without light module	e
Item no. MD60806001		
	Dimensions:	180x100x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
	Weight:	approx. 8kg
	Wolght.	approx. org
Item no. MD61006002		
	Dimensions:	180x100x1000mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
ψ	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
	Weight:	approx. 10kg
Item no. MD60806003	Dimensions:	180x100x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
	Weight:	approx. 8kg
Item no. MD61006004		
101110. MD01000004	Dimensions:	180x100x1000mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
	Weight:	approx. 10kg
	troight.	approvi long

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em no. MD60806005		
	Dimensions:	180x100x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	4 x CEE 16A 3P 230V IP44 4 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
20.02	Power supply terminals:	5x10qmm
	Weight:	approx. 9kg
em no. MD61206006		
	Dimensions:	180x100x1200mm (WxDxH)
6 K	Color:	silver
	Ingress protection:	IP44
	Equipment:	4 x CEE 16A 3P 230V IP44 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
- \$J	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
	Weight:	approx. 12kg
em no. MD60806007		
	Dimensions:	180x100x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	4 x CEE 16A 3P 230V IP44 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
1	Power supply terminals:	5x10qmm
	Weight:	approx. 9kg
em no. MD61206008		
	Dimensions:	180×100×1200mm (M/vDvL)
		180x100x1200mm (WxDxH)
•	Color:	silver IP44
	Ingress protection: Equipment:	4 x CEE 16A 3P 230V IP44 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
1	Max. back-up fuse:	32A
	max. buon up tube.	SLIN
	Power supply terminals:	5x10qmm

Light modules

The columns offer the possibility of mounting a light module. Thus, the supply of electricity and water connections and jetty lighting can be realized at the same time. We offer the following two variants:

LED Orientation light

- High quality end cover made of anodized aluminum
- With inserted LED light strip, water resistant shed
- LED driver 24V
- Light color: Daylight white ~6.300K
- pre-wired on supply terminal 2x2,5qmm

LED Mounting light

- High quality end cover made of anodized aluminum
- Acrylic glass cylinder, shining on four sides
- Lamp holder E27
- Light source: LED bulb 9W
- Light color: Daylight white ~6.000K
- pre-wired on supply terminal 3x2,5qmm







Picture shows the column with LED orientation light, height 800mm

MS18 Camping-/Marina columns - with LED Orientation light

Dimensions: 100x100x800mm (Wx0xH) Color: silver Ingress protection: IP44 Ingress protection: 2x CEE 16A 3P 230V 2x RCBO 16A/0,03A C 1P+N 2x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 6x10gmm Light module: LBD Orientation light (clamps 2x2.5qmm) Weight: approx.9kg Ingress protection: IP44 Ingress protection: IP44 Max. back-up fuse: 2x CEE 16A 3P 230V Ingress protection: IP44 Max. back-up fuse: 2x CEE 16A 3P 230V 1/2 word supply terminals: 5x10gmm Ingress protection: IP44 Max. back-up fuse: 32A Powor supply terminals: 5x10gmm 1/2 bit module: 2x CEE 16A 3P 230V Ingress protection: IP44 Ingress protection: IP44 Ingress protection: Iptimodule: Ingress protection: Iptimodule: Ingress protection: Iptimodule: Ingress protec	Item no. MD70806009		
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Equipment:2 × CEE 16A 3P 230V 2 × Single phase energy meter 2 × RCBO 16A/0,03A C 1P+NMax. back-up fuse:32APower supply terminals:5x10qmmLight module:LED Orientation light (clamps 2x2,5qmm)Veight:approx. 9kgItem no. MD71006012Dimensions:Dimensions:180x100x1000mm (WxDxH)Color:silverIngress protection:IP44Equipment:2 × CEE 16A 3P 230V 2 × Single phase energy meter 2 × RCBO 16A/0,03A C 1P+NMax. back-up fuse:32APower supply terminals:32APower supply terminals:32A		Color:	silver
Equipment:2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+NMax. back-up fuse:32APower supply terminals:5x10qmmLight module:LED Orientation light (clamps 2x2,5qmm)Weight:approx. 9kgItem no. MD71006012Item sinse:Dimensions:180x100x1000mm (WxDxH)Color:silverIngress protection:IP44Equipment:2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm		Ingress protection:	IP44
Power supply terminals:5x10qmmLight module:LED Orientation light (clamps 2x2,5qmm)Weight:approx. 9kgItem no. MD71006012Dimensions:Dimensions:180x100x1000mm (WxDxH)Color:silverIngress protection:IP44Equipment:2 x CEE 16A 3P 230V2 x RCBO 16A/0,03A C 1P+Nx back-up fuse:Max. back-up fuse:32APower supply terminals:5x10qmm		Equipment:	2 x Single phase energy meter
Light module:LED Orientation light (clamps 2x2,5qmm)Weight:approx. 9kgItem no. MD71006012Dimensions:180x100x1000mm (WxDxH)Color:silverIngress protection:IP44Equipment:2 × CEE 16A 3P 230V 2 × Single phase energy meter 2 × RCBO 16A/0,03A C 1P+N 1 × Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm	2.3	Max. back-up fuse:	32A
Light module:LED Orientation light (clamps 2x2,5qmm)Weight:approx. 9kgItem no. MD71006012Dimensions:180x100x1000mm (WxDxH)Color:silverIngress protection:IP44Equipment:2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm			5x10qmm
Item no. MD71006012 Dimensions: 180x100x1000mm (WxDxH) Color: silver Ingress protection: IP44 Augment: 2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 9ower supply terminals: 5x10qmm		Light module:	LED Orientation light (clamps 2x2,5qmm)
Dimensions:180x100x1000mm (WxDxH)Color:silverIngress protection:IP44Ingress protection:2 × CEE 16A 3P 230VEquipment:2 × Single phase energy meter 2 × RCB0 16A/0,03A C 1P+N 1 × Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm		Weight:	approx. 9kg
Color:silverIngress protection:IP44Ingress protection:2 × CEE 16A 3P 230VEquipment:2 × Single phase energy meter2 × RCBO 16A/0,03A C 1P+N1 × Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm	Item no. MD71006012		
Ingress protection:IP44Ingress protection:2 × CEE 16A 3P 230V 2 × Single phase energy meter 2 × RCBO 16A/0,03A C 1P+N 1 × Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm		Dimensions:	180x100x1000mm (WxDxH)
Equipment:2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm		Color:	silver
Equipment:2 × CEE 16A 3P 230V 2 × Single phase energy meter 2 × RCBO 16A/0,03A C 1P+N 1 × Drinking water connection 1/2"Max. back-up fuse:32APower supply terminals:5x10qmm	1	Ingress protection:	IP44
Power supply terminals: 5x10qmm			2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N
Power supply terminals: 5x10qmm	1	Max. back-up fuse:	32A
Light module: LED Orientation light (clamps 2x2.5gmm)	- 2	Power supply terminals:	5x10qmm
		Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight: approx. 11kg		Weight:	approx. 11kg



MS18 Camping-/Marina columns - with LED Orientation light Item no. MD70806013 Dimensions: 180x100x800mm (WxDxH) Color: silver Ingress protection: IP44 4 x CEE 16A 3P 230V Equipment: 4 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x10qmm LED Orientation light (clamps 2x2,5qmm) Light module: Weight: approx. 10kg Item no. MD71206014 Dimensions: 180x100x1200mm (WxDxH) Color: silver IP44 Ingress protection: 4 x CEE 16A 3P 230V Equipment: 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" . Max. back-up fuse: 32A 2 Power supply terminals: 5x10qmm Light module: LED Orientation light (clamps 2x2,5qmm) Weight: approx. 13kg Item no. MD70806015 Dimensions: 180x100x800mm (WxDxH) Color: silver Ingress protection: IP44 4 x CEE 16A 3P 230V Equipment: 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x10qmm LED Orientation light (clamps 2x2,5qmm) Light module: Weight: approx. 10kg Item no. MD71206016 Dimensions: 180x100x1200mm (WxDxH) Color: silver IP44 Ingress protection: 4 x CEE 16A 3P 230V 4 x Single phase energy meter Equipment: 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A 12 Power supply terminals: 5x10qmm Light module: LED Orientation light (clamps 2x2,5qmm)

approx. 13kg

Weight:

MS18 Camping-/Marina columns - with LED Mounting light

Item no. MD80806017		
	Dimensions:	180x100x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
	Light module:	LED Mounting light (clamps 3x2,5qmm)
	Weight:	approx. 10kg
Item no. MD81106018	0	
	Dimensions:	180x100x1100mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
1	Max. back-up fuse:	32A
sh	Power supply terminals:	5x10qmm
	Light module:	LED Mounting light (clamps 3x2,5qmm)
	Weight:	approx. 12kg
Item no. MD80806019		
	Dimensions:	180x100x800mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
2	Power supply terminals:	5x10qmm
	Light module:	LED Mounting light (clamps 3x2,5qmm)
1	Weight:	approx. 10kg
Item no. MD81106020		
	Dimensions:	180x100x1100mm (WxDxH)
	Color:	silver
Time	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N
10.00	Equipment.	1 x Drinking water connection 1/2"
	Max. back-up fuse:	
190 19		1 x Drinking water connection 1/2"
10 10	Max. back-up fuse:	1 x Drinking water connection 1/2" 32A



Dimensions: 180x100x800mm (WxDxH) Color: silver Ingress protection: IP44 4 x CEE 16A 3P 230V Equipment: 4 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x10qmm Light module: LED Mounting light (clamps 3x2,5qmm) Weight: approx. 11kg Item no. MD81306022 Dimensions: 180x100x1300mm (WxDxH) Color: silver IP44 Ingress protection: 4 x CEE 16A 3P 230V Equipment: 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A Power supply terminals: 5x10qmm 14 Light module: LED Mounting light (clamps 3x2,5qmm) Weight: approx. 14kg Item no. MD80806023 Dimensions: 180x100x800mm (WxDxH) Color: silver Ingress protection: IP44 4 x CEE 16A 3P 230V Equipment: 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x10qmm Light module: LED Mounting light (clamps 3x2,5qmm) Weight: approx. 11kg Item no. MD81306024 Dimensions: 180x100x1300mm (WxDxH) Color: silver IP44 Ingress protection: 4 x CEE 16A 3P 230V 4 x Single phase energy meter Equipment: 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A 1 ų Power supply terminals: 5x10qmm

Light module:

Weight:

MS18 Camping-/Marina columns - with LED Mounting light

Item no. MD80806021

17

LED Mounting light (clamps 3x2,5qmm)

approx. 14kg

MS18 Camping-/Marina column with door

The timeless and attractive design of the column contributes to a positive appearance at any campsite and docks. Due to the possibility to equip the columns with energy and water connection, a jetty lighting can be realized at the same time - this invites to pleasant evening walks on the jetties at dusk. It provides the right amount of security and excludes use by unauthorized persons.

1968 B Picture shows the column construction according to customer's request, closability of the door during operation is not guaranteed

Technical data

- Dimensions profile cross-section: 180x205mm (WxD) variable, max. 1600mm
- Dimensions height:
- Color:
- Material:
- Ingress protection:
- Protection class:

Structure of the column

- Closed aluminum profile
- Lockable door
- Upper end cover
- Base plate for mounting on every solid underground
- incl. mounting material
- incl. equipotential bonding

Sockets

The installed CEE sockets have an wall-mounted design. The door can be closed even during operation.



silver

IP44

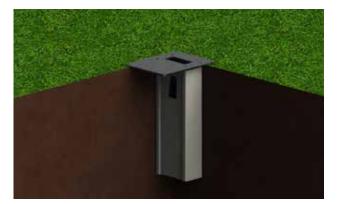
Aluminum, anodized E6/EV1

Options

- LED light module (starting on page 22)
- Height according to customer requirements
- Distribution modules
- Also available as empty column
- Customized versions on request
- Available in RAL oder DB colors on request

Component parts

Ground element for use on unpaved ground with cable inlet (installation depth 500mm)





Item no. MD10100005



MS18 Camping-/Marina columns with door - without light module

Item no. MDH1006101		
	Dimensions:	180x205x1000mm (WxDxH)
	Color:	silver
1.000	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
100	Power supply terminals:	5x10qmm
A. A.	Weight:	approx. 14kg
Item no. MDH1406102	Wolght.	
Item no. MDH1406102	Dimensions:	180x205x1400mm (WxDxH)
	Color:	
-		silver
18	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
594 1	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
1.0	Weight:	approx. 21kg
Item no. MDH1006103	5	
	Dimensions:	180x205x1000mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
103	Power supply terminals:	5x10qmm
the second	Weight:	approx. 14kg
Item no. MDH1406104		
	Dimensions:	180x205x1400mm (WxDxH)
	Color:	silver
	Ingress protection:	IP44
	Equipment:	2 x CEE 16A 3P 230V 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
4-1 (30)	Max. back-up fuse:	32A
	Power supply terminals:	5x10qmm
2.0	Weight:	approx. 21kg
	-	·



Picture shows the column with LED light module, height 1200mm

Light modules

The columns offer the possibility of mounting a light module. Thus, the supply of electricity and water connections and jetty lighting can be realized at the same time. We offer the following two variants:

LED light module

- High quality end cover made of anodized aluminum
- Acrylic frosted glass cylinder, shining on four sides
- Lamp holder E14
- Light source: LED bulb 9W
- Light color: Daylight white ~6.000K
- pre-wired on supply terminal 3x2,5qmm

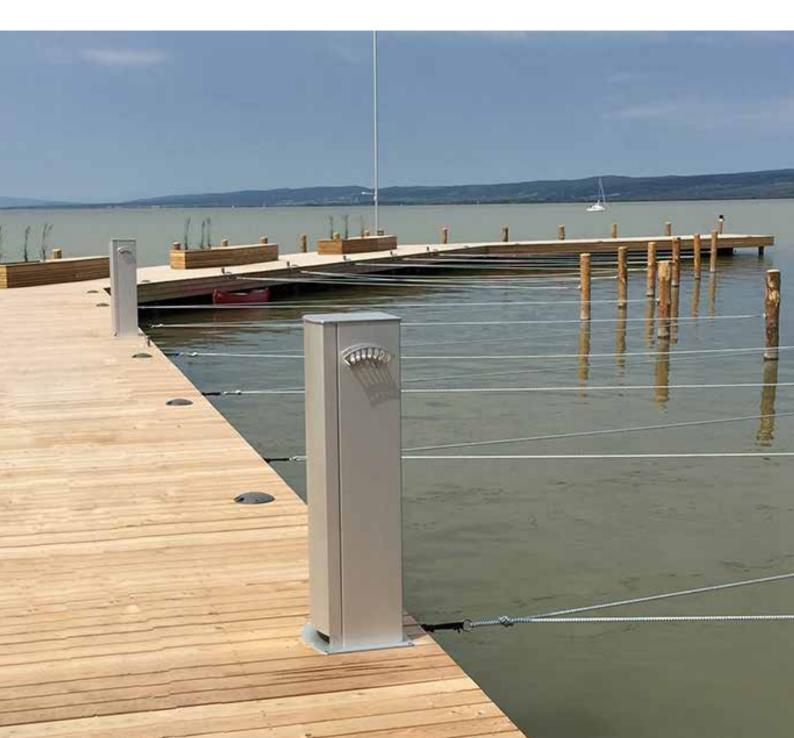




MS18 Camping-/Marina columns with door and light module Item no. MDH1106205 Dimensions: 180x205x1100mm (WxDxH) Color: silver Ingress protection: IP44 2 x CEE 16A 3P 230V IP44 Equipment: 2 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x10qmm LED light module (clamps 3x2,5qmm) Light module: Weight: approx. 15kg Item no. MDH1506206 Dimensions: 180x205x1500mm (WxDxH) Color: silver IP44 Ingress protection: 2 x CEE 16A 3P 230V IP44 Equipment: 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A Power supply terminals: 5x10qmm Light module: LED light module (clamps 3x2,5qmm) Weight: approx. 22kg Item no. MDH1106207 Dimensions: 180x205x1100mm (WxDxH) Color: silver Ingress protection: IP44 2 x CEE 16A 3P 230V IP44 Equipment: 2 x Single phase energy meter 2 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x10qmm LED light module (clamps 3x2,5qmm) Light module: Weight: approx. 15kg Item no. MDH1506208 Dimensions: 180x205x1500mm (WxDxH) Color: silver IP44 Ingress protection: 2 x CEE 16A 3P 230V IP44 2 x Single phase energy meter Equipment: 2 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A Power supply terminals: 5x10qmm Light module: LED light module (clamps 3x2,5qmm) Weight: approx. 22kg

MS290 Camping-/Marina column

Large and elegant - the column type MS290. It is a visual as well as a practical enrichment for each campsite and port facility. Due to the possibility to equip the columns with energy and water connections, a jetty lighting can be realized at the same time - this invites to pleasant evening walks on the jetties at dusk. It provides the right amount of of security and excludes use by unauthorized persons.



Technical data

- Dimensions profile cross-section: 290x314mm (WxD)
- Dimension height:
- Color:
- Material:
- Ingress protection:
- Protection class:
- variable silver, anthracite Aluminum, anodized E6/EV1 IP44

Structure of the column

- Side panels
- Mounting plate and back cover
- Iockable door with bar lock, incl. sash lock
- Upper end cover
- Base plate for mounting on every solid underground
- incl. mounting material
- incl. equipotential bonding

Sockets

The installed CEE sockets have an angled design. The door can be closed even during operation.



Options

- Light module
- Height according to customer requirements
- Distribution modules for in-line units
- Also available as empty column
- Customized versions on request
- Available in RAL oder DB colors on request

Component parts

 Ground element for use on unpaved ground with cable inlet (installation depth 500mm)





MS290 Camping-/Marina columns - without light module

Item no. MG80807457



Item no. MG01007571



Item no. MG80807454



Item no. MG01007572



iumns - without light module	
Dimensions:	290x314x800mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 × CEE 16A 3P 230V 4 × RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Weight:	approx. 16kg
Dimensions:	290x314x1000mm (WxDxH)
Color:	silver
Ingress protection:	IP44
	4 x CEE 16A 3P 230V
Equipment:	4 x RCBO 16A/0,03A C 1P+N
	1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Weight:	approx. 20kg
Dimensions:	290x314x800mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Weight:	approx. 17kg
Wolght.	
Disconsistent	000-014-1000 (MA-DLI)
Dimensions:	290x314x1000mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Weight:	approx. 21kg



MS290 Camping-/Marina columns - without light module

Item no. MG80807457C		
	Dimensions:	290x314x800mm (WxDxH)
	Color:	anthracite
	Ingress protection:	IP44
100 mm		
	Equipment:	4 x CEE 16A 3P 230V 4 x RCBO 16A/0,03A C 1P+N
	Max. back-up fuse:	32A
	Power supply terminals:	5x16qmm
A DOWN OF	Weight:	approx. 16kg
Item no. MG01007571C		
	Dimensions:	290x314x1000mm (WxDxH)
	Color:	anthracite
and the second se	Ingress protection:	IP44
3		11 77
200 SS 21-1-1	Equipment:	4 x CEE 16A 3P 230V 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
	Max. back-up fuse:	32A
	Power supply terminals:	5x16qmm
Summer of the local division of the local di	Weight:	approx. 20kg
Item no. MG80807454C		
Ren 110. MG000074340	Dimensions:	290x314x800mm (WxDxH)
200	Color:	anthracite
	Ingress protection:	IP44
	Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N
1000	Max. back-up fuse:	32A
	Power supply terminals:	5x16qmm
and the second	Weight:	approx. 17kg
Item no. MG01007572C		
	Dimensions:	290x314x1000mm (WxDxH)
-	Color:	anthracite
	Ingress protection:	IP44
	Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
	Max. back-up fuse:	32A
	Power supply terminals:	5x16qmm
and the second s	Weight:	approx. 21kg

Light modules

The columns offer the possibility of mounting a light module. Thus, the supply of electricity and water connections and jetty lighting can be realized at the same time. We offer the following two variants:

LED Orientation light

- High quality end cover made of anodized aluminum
- With inserted LED light strip, water resistant shed
- LED driver 24V
- Light color: Daylight white ~6.300K
- pre-wired on supply terminal 2x2,5qmm

LED Mounting light

- High quality end cover made of anodized aluminum
- Acrylic frosted glass cylinder, shining on four sides
- Lamp holder E14
- Light source: LED bulb 9W
- Light color: Daylight white ~6.000K
- pre-wired on supply terminal 3x2,5qmm







MS290 Camping-/Marina columns - with LED Orientation light

Item no. MG80805457

Item no. MG01005571



Item no. MG80805454



Item no. MG01005572



Dimensions:	290x314x800mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight:	approx. 17kg
0	
Dimensions:	290x314x1000mm (WxDxH)
Color:	silver
Ingress protection:	IP44
ingress protection.	1F44
Equipment:	4 x CEE 16A 3P 230V 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight:	approx. 21kg
Dimensions:	290x314x800mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight:	approx. 18kg
Dimensions:	290x314x1000mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Power supply terminals: Light module:	5x16qmm LED Orientation light (clamps 2x2,5qmm)
	•



MS290 Camping-/Marina columns - with LED Orientation light

Item no. MG80805457C



Item no. MG01005571C



Item no. MG80805454C



Item no. MG01005572C



nns - with LED Onental	lon light
Dimensions:	290x314x800mm (WxDxH)
Color:	anthracite
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse: Power supply terminals: Light module: Weight:	32A 5x16qmm LED Orientation light (clamps 2x2,5qmm) approx. 17kg
Dimensions:	290x314x1000mm (WxDxH)
Color:	anthracite
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight:	approx. 21kg
5	
Dimensions:	290x314x800mm (WxDxH)
Color:	anthracite
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight:	approx. 18kg
Dimensions:	290x314x1000mm (WxDxH)
Color:	anthracite
Ingress protection:	
Equipment:	4 x CEE 16A 3P 230V 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Orientation light (clamps 2x2,5qmm)
Weight:	approx. 22kg

MS290 Camping-/Marina columns - with LED mounting light

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Item no. MG80806457

Item no. MG01006571



Item no. MG80806454



Item no. MG01006572



Diumns - with LED mounting	
Dimensions:	290x314x800mm (WxDxH)
Color:	silver
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V
Equipment.	4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Mounting light (clamps 3x2,5qmm)
Weight:	approx. 21kg
Dimensions:	290x314x1000mm (WxDxH)
Color:	silver
Ingress protection:	IP44
	4 x CEE 16A 3P 230V
Equipment:	4 x RCBO 16A/0,03A C 1P+N
	1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Mounting light (clamps 3x2,5qmm)
Weight:	approx. 25kg
<u> </u>	
Dimensions:	290x314x800mm (WxDxH)
Color:	silver
Ingress protection:	IP44
	4 x CEE 16A 3P 230V
Equipment:	4 x Single phase energy meter
	4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Mounting light (clamps 3x2,5qmm)
0	
Weight:	approx. 22kg
Dimensions:	290x314x1000mm (WxDxH)
Color:	silver
Ingress protection:	IP44
	4 x CEE 16A 3P 230V
Equipment:	4 x Single phase energy meter
Equipmont.	4 x RCBO 16A/0,03A C 1P+N
	1 x Drinking water connection 1/2"
Max. back-up fuse:	32A
Power supply terminals:	5x16qmm
Light module:	LED Mounting light (clamps 3x2,5qmm)
Weight:	approx. 26kg



MS290 Camping-/Marina columns - with LED mounting light

Item no. MG80806457C Dimensions: 290x314x800mm (WxDxH) Color: anthracite Ingress protection: IP44 4 x CEE 16A 3P 230V Equipment: 4 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x16qmm Light module: LED Mounting light (clamps 3x2,5qmm) Weight: approx. 21kg Item no. MG01006571C Dimensions: 290x314x1000mm (WxDxH) Color: anthracite IP44 Ingress protection: 4 x CEE 16A 3P 230V Equipment: 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A Power supply terminals: 5x16qmm Light module: LED Mounting light (clamps 3x2,5qmm) Weight: approx. 25kg Item no. MG80806454C Dimensions: 290x314x800mm (WxDxH) Color: anthracite Ingress protection: IP44 4 x CEE 16A 3P 230V Equipment: 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N Max. back-up fuse: 32A Power supply terminals: 5x16qmm Light module: LED Mounting light (clamps 3x2,5qmm) Weight: approx. 22kg Item no. MG01006572C Dimensions: 290x314x1000mm (WxDxH) Color: anthracite IP44 Ingress protection: 4 x CEE 16A 3P 230V 4 x Single phase energy meter Equipment: 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 1/2" Max. back-up fuse: 32A Power supply terminals: 5x16qmm

Light module:

Weight:

LED Mounting light (clamps 3x2,5qmm)

approx. 26kg

Energy bollards

The bollard is a visually appealing energy supply-unit and serves as drive-through and road securing at the same time. Through the elegant design blends it nearly perfectly into every area and braves due to its robust type of design external impacts of any kind.



Technical data

- Dimensions:
- Dimensions height:
- Color:
- Material:
- Ingress protection:
- Protection class:

Ø 330mm und Ø 450mm variable anthracite V2A stainless steel (1.4301) IP44 I

Structure of the bollard

- Housing made of stainless steel
- Ground anchoring with flange plate
- Wall distribution box
- Lockable door with a profile half cylinder with 3 keys
- Cable outlet for locking the door during operation

Sockets

The installed CEE sockets have an angled design. The door can be closed even during operation.



Options

- Drinking water connection with pipe heating
- Pneumatic unit
- Heights: 650, 850, 1050, 1280, 1400, 1500mm
- Available also as empty housing
- Version made of V4A stainless steel
- Customized versions on request

Component parts

 Ground element for use on unpaved ground with cable inlet (installation depth 900mm)







Stainless steel energy bollards

Item no. MS62350104C



Item no. MS62350114C



Weight:

Dimensions:	330x1280mm (DxH)
Color:	anthracite
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V IP44 4 x RCBO 16A/0,03A C 1P+N
Max. back-up fuse:	32A
Power supply terminals:	5x10qmm
Weight:	approx. 55kg
Dimensions:	330x1280mm (DxH)
Dimensions: Color:	330x1280mm (DxH) anthracite
Color:	anthracite
Color: Ingress protection:	anthracite IP44 4 x CEE 16A 3P 230V IP44 4 x Single phase energy meter
Color: Ingress protection: Equipment:	anthracite IP44 4 × CEE 16A 3P 230V IP44 4 × Single phase energy meter 4 × RCBO 16A/0,03A C 1P+N

approx. 55kg

Stainless steel energy bollards

Item no. MS62360124C



Item no. MS62360134C



Dimensions:330x1400mm (DxH)Color:anthraciteIngress protection:IP44Equipment: $4 \times CEE 16A 3P 230V IP44 \\ \times RCB0 16A/0,03A C 1P+N \\ 1 \times Drinking water connection 3/4" incl. pipe heatingMax. back-up fuse:32APower supply terminals:5x10qmmWeight:approx. 70kg$		
Ingress protection:IP44Ingress protection:IP44Equipment:4 × CEE 16A 3P 230V IP44 4 × RCB0 16A/0,03A C 1P+N 1 × Drinking water connection 3/4" incl. pipe heatingMax. back-up fuse:32APower supply terminals:5x10qmm	Dimensions:	330x1400mm (DxH)
Equipment: 4 × CEE 16A 3P 230V IP44 4 × RCBO 16A/0,03A C 1P+N 1 × Drinking water connection 3/4" incl. pipe heating Max. back-up fuse: 32A Power supply terminals: 5x10qmm	Color:	anthracite
Equipment:4 × RCBO 16A/0,03A C 1P+N 1 × Drinking water connection 3/4" incl. pipe heatingMax. back-up fuse:32APower supply terminals:5x10qmm	Ingress protection:	IP44
Power supply terminals: 5x10qmm	Equipment:	4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 3/4"
	Max. back-up fuse:	32A
Weight: approx. 70kg	Power supply terminals:	5x10qmm
	Weight:	approx. 70kg

Dimensions:	330x1400mm (DxH)
Color:	anthracite
Ingress protection:	IP44
Equipment:	4 x CEE 16A 3P 230V IP44 4 x Single phase energy meter 4 x RCBO 16A/0,03A C 1P+N 1 x Drinking water connection 3/4" incl. pipe heating
Max. back-up fuse:	32A
Power supply terminals:	5x10qmm
Weight:	approx. 70kg

Stainless steel standing distributor



For the application at ports which are located on lake- or seawater, we also offer standing distributors made of stainless steel. The equipment can be realized exactly according to your requirements and the technical possibilities.

Technical data

- Dimensions:

465x360x1610mm (Type ESV2) 785x360x1610mm (Type ESV4) 1085x480x1610mm (Type ESV6) V2A stainless steel (1.4301)

- Material: V2AIngress protection: IP44
- Protection class:

Item no. Empty housing

- Item no. Type ESV2 MS62292002
- Item no. Type ESV4 MS62292004
- Item no. Type ESV6 MS62292006

Structure of the distributor

- Housing made of stainless steel
- Mounting plate at the inside of the housing

- Lockable door with swing handle lock
- Upper end cover with eaves
- Mounting inside on every solid underground
- Cable outlet

Options

- Version made of V4A stainless steel
- Customized versions on request
- Available in RAL oder DB colors on request

Component parts

- Pedestal, suitable for 3 types
- Cable entry from the bottom
- Height 530mm

Item no. pedestals

- Item no. Type ESV2 MS62999021
- Item no. Type ESV4 MS62999041
- Item no. Type ESV6 MS62999061





Stainless steel standing column with door

As an alternative to the stainless steel stand distributors we offer smaller stand columns with moderate capacity. The design of the column depends on the required equipment. The lockable door ensures that use by unauthorized persons is excluded.



ESS-EAV2Item no. Empty housing MS62302002



ESS-EAV4Item no. Empty housing MS62302004

ESS-EAV6Item no. Empty housing MS62302006



Technical data

- Dimensions:
- Material:
- Ingress protection:
- Protection class:

Structure of the distributor

Housing made of stainless steel, visible sides polished

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- Mounting plate in the inside of the housing
- Lockable door with swing handle lock
- Rain protection cover
- Mounting on every solid underground incl. mounting material
- Cable outlet at the bottom side

Options

- Version made of V4A stainless steel
- Customized versions on request
- Available in RAL oder DB colors on request

420x240x1230mm (Type ESS-EAV2) 300x330x1230mm (Type ESS-EAV4) 530x370x1230mm (Type ESS-EAV6) V2A stainless steel (1.4301) IP44

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