

Product Overview



A company of the PCE-Group



**Connection technology
for every application**

Your partner for modern and sustainable connection technology in the range of indoor and outdoor

For more than 40 years MOSER is one of the leading companies in the range of underground systems and connection columns. According to continuous redevelopments the product range has been extended and comprises nowadays a complete high quality program of connection technology from the workplace in the office to the industry.

From 1967 to 1975 MOSER expanded its business field with electric installation and developed the first connection columns. In 1985 supply posts followed. This technique has been improved until 1988 so MOSER could present as the first company worldwide its retractable connection technology, which is suitable for the urban use and also for applications in the aviation industry in an outstanding way.

From 2013 Moser Systemelektrik GmbH is a company of the PCE Group and organizationally attributed to the MERZ GMBH as a sub company.

MERZ GMBH offers a wide product range with high quality in the range of mobile power distribution (especially building site main cabinets), test technology, sheet metal technology and low voltage switch gears. (more information under: www.merz-elektro.de)

The holding company PC Electric GmbH with its headquarter in St.Martin (Austria) is specialized in the production of industrial plugs, sockets with earth contact and plugs and furthermore offers a complete product range of distribution boxes made out of solid rubber and synthetic material. (more information under www.pcelectric.at)

Contents

	page		page
Underground technology	3	Industrial workplace	20
TerraMo-Underground connection	7	Clean room technology	23
Garden Supply- and gate intercom columns	9	Mounting and installation possibilities	
Connection columns for marinas / camping	14	(of floor connection columns)	26
Office connection technology	16		



As European market leader in the field underground systems MOSER convince with its retractable connection technology. With more than 10.000 built-in units worldwide which can proudly look back to a lifetime of 20 years, you can find our retractable connection technology located by well-known partners like EADS Airbus in Hamburg or in the German capital Berlin. The advantages of this technology are numerous and should convince responsible designers:

Underground systems directly from the developer:

The retractable connection technology, developed by MOSER as the first company worldwide. According to continuous enhancements there are now a multiplicity of underground systems available for different demands.



A partner for everything

MOSER delivers its underground systems as a mounted complete unit inclusive pit. Therefore we are always your direct contact person for the whole assembly.

Better than other systems

The humidity control is a focal point for the designing engineers at MOSER. Other suppliers usually abdicate this. Our drainage system "Dry Inside" and an integrated heating system keep the device column and the mechanical parts dry and applicable at all weather conditions. MOSER technique protects the units against freezing, formation of condensation water, surface water, flooding and sand storms.

Optimal field management

The application of underground systems allows an optimal use of the space at market places or on areas of airports, which is normally limited. Sunk-in they create space and retracted they are drivable with a weight from up to 90 tons.



Concreted resource management

You can save time and money, because the needed connections on site are always available and fit for service. Furthermore the systems are extremely easy-care, service reduced and durable. The perfect ergonomics of the units enables an easy and effort-saving operation.

Needs-oriented and individual executions

The systems are offered in different size, type and modules. The well-thought-out modular construction enables equipment which is variable and two-sided. Furthermore it creates the possibility for a reconstruction or expansion.

Highest safety

The safety for humans and technique is sometimes enabled by small and inconsiderable details. Examples: an orientation light while the unit is lifted, an entry to the pit for maintenance and fitting, the system "Dry Inside", the self-locking of the device column or the use of a dead man's control.

Service and maintenance from the producer

We're at your side with our skilled employees from the planning to the insertion to the maintenance. It is advantageous that MOSER offers its in-house service, though even it is rarely necessary. Specialist staff and our representations enable quick and effective an utilization for many years.



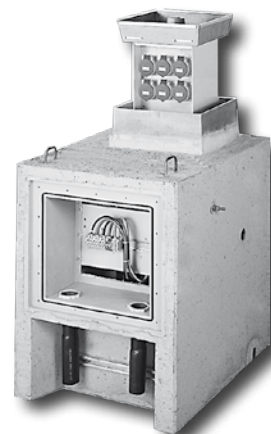
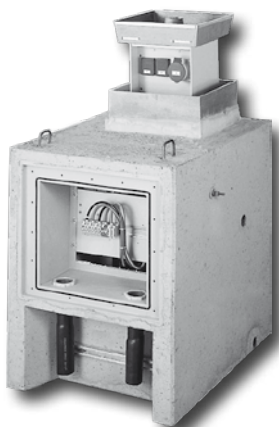
Equipment options

Retractable connection technology SE30A

Retractable connection technology SE30AH500

Retractable, freely accessible for vehicles, electrical connections and distribution columns for open areas and halls for ground-flush installation in compliance with VDE regulations, comprising:

Concrete pit with integrated drainage, cable feed-throughs and cable terminal boxes, corrosion-proof aluminium pit insert, supply tower with pit cover of cast aluminium suitable for paving, electrical device modules and hand crank.



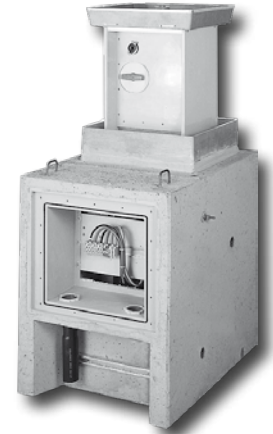
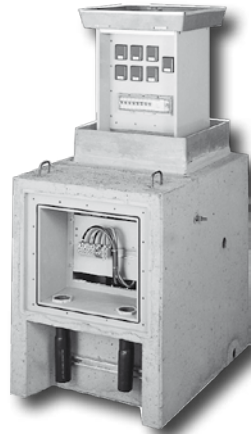
Technical data	SE30A	SE30AH500
Protection stages:	IP 44 for electrical sockets	
	IP 65 for distributors	
Protection equipment:	earth contact class 1	
Mains voltage/frequency:	230/400 V, 50 Hz	
Kind of voltage:	TN-S system	
Connection value:	approx. 15 kW	
Feed in cable max. permissible:	5 x 16 mm ²	
Concrete shaft + Shaft insert:	570 kg	580 kg
Device column equipped:	30 kg	50 kg
Concrete shaft (HxWxD):	795 x 610 x 885 mm	
Cover support (incl. sealing compound):	110 mm	
Installation depth:	905 mm	
Extendible height:	233 mm	400 mm
Space for pavement in cover:	50 mm	
Load capacity for the paved cover:	D 400, 40t point load	
Lifting mechanism:	Thread spindle	
Sewage connections:	2 DN 40	

Designation	Equipment side A	side B	Order-No.
Retractable connection technology SE30A	1 distributor, 10 partitions 1 elcb 40/0,03 A, 4 P 1 mcb 16 A, B, 3 P 2 mcb 16 A, B, 1 P 1 mcb 2 A, C, 1 P (for heating)	1 CEE 16 A, 5 P 2 protective contact sockets	MSSE30A-Sta-01
Retractable connection technology SE30AH500	2 distributor, 10 partitions 1 elcb 40/0,03 A, 4 P 6 mcb 16 A, B, 1 P 1 mcb 2 A, C, 1 P	6 CEE 16 A, 3 P	MSSE30AH500-Sta-01

Retractable connection technology SE50

Retractable connection technology-hydrant SEH50

Retractable, freely accessible for vehicles, electrical connections and distribution columns for open areas and halls for ground-flush installation in compliance with VDE regulations, comprising:
Concrete pit with integrated drainage, cable feed-throughs and cable terminal boxes, corrosion-proof aluminium pit insert, supply tower with pit cover of cast aluminium suitable for paving, electrical device modules (**SEH50**: also water device modules) and hand crank.



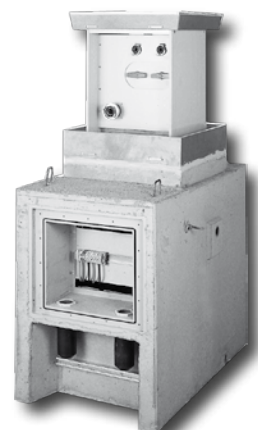
Technical data	SE50	SEH50
Protection stages:	IP 44 for electrical sockets	
	IP 67 for distributors	
Protection equipment:	earth contact class 1	
Mains voltage/frequency:	230/400 V, 50 Hz	
Kind of voltage:	TN-S system	
Connection value:	approx. 30 kW	
Feed in cable max. permissible:	5 x 16 mm ²	
Concrete shaft + Shaft insert:	620 kg	630 kg
Device column equipped:	65 kg	
Concrete shaft (HxWxD):	795 x 610 x 885 mm	795 x 610 x 1036 mm
Cover support (incl. sealing compound):	110 mm	
Installation depth:	905 mm	
Extendible height:	466 mm	
Space for pavement in cover:	50 mm	
Load capacity for the paved cover:	D 400, 40t point load	
Lifting mechanism:	Thread spindle	
Sewage connections:	2 DN 40	

Designation	Equipment side A	side B	Order-No.
Retractable connection technology SE50	1 CEE 32 A, 5 P 1 CEE 16 A, 5 P 2 CEE 16 A, 3 P 1 distributor, 13 partitions 1 elcb 63/0,03 A, 4 P 1 mcb 32 A, B, 3 P 1 mcb 16 A, B, 3 P 2 mcb 16 A, B, 1 P	7 protective contact sockets 1 distributor, 13 partitions 1 elcb 40/0,03 A, 4 P 7 mcb 16 A, B, 1 P 1 mcb 2 A, C, 1 P (for heating)	MSSE50-Sta-03
Retractable connection technology-hydrant SEH50	1 CEE 32 A, 5 P 1 CEE 16 A, 5 P 2 CEE 16 A, 3 P 1 distributor, 13 partitions 1 elcb 63/0,03 A, 4 P 1 mcb 32 A, B, 3 P 1 mcb 16 A, B, 3 P 1 mcb 16 A, B, 1 P 1 mcb 2 A, C, 1 P (for heating)	1 High speed clutch Type GK 1/2" (freshwater) 1 freshwater shut-off valve	MSSEH50-Sta-01

Retractable connection technology SE56

Retractable connection technology-hydrant SEH56

Retractable, freely accessible for vehicles, electrical connections and distribution columns for open areas and halls for ground-flush installation in compliance with VDE regulations, comprising:
Concrete pit with integrated drainage, cable feed-throughs and cable terminal boxes, corrosion-proof aluminium pit insert, supply tower with pit cover of cast aluminium suitable for paving, electrical device modules (**SEH50:** also water device modules) and hand crank.



Technical data	SE56	SEH56
Protection stages:	IP 44 for electrical sockets	
	IP 67 for distributors	
Protection equipment:	earth contact class 1	
Mains voltage/frequency:	230/400 V, 50 Hz	
Kind of voltage:	TN-S system	
Connection value:	approx. 50 kW	approx. 40 kW
Feed in cable max. permissible:	5 x 50 mm ²	5 x 16 mm ²
Concrete shaft + Shaft insert:	650 kg	710 kg
Device column equipped:	75 kg	
Concrete shaft (HxWxD):	965 x 632 x 928 mm	965 x 632 x 1084 mm
Cover support (incl. sealing compound):	110 mm	
Installation depth:	1075 mm	
Extendible height:	520 mm	
Space for pavement in cover:	50 mm	
Load capacity for the paved cover:	D 400, 40t point load	
Lifting mechanism:	Thread spindle	
Sewage connections:	2 DN 40	

Designation	Equipment side A	side B	Order-No.
Retractable connection technology SE56	1 CEE 63 A, 5 P 1 CEE 16 A, 5 P 3 protective contact sockets 1 distributor, 18 partitions 1 elcb 63/0,03 A, 4 P 1 mcb 63 A, B, 3 P 1 mcb 16 A, B, 3 P 3 mcb 16 A, B, 1 P	1 CEE 32 A, 5 P 2 CEE 16 A, 5 P 2 CEE 16 A, 3 P 1 distributor, 18 partitions 1 elcb 63/0,03 A, 4 P 1 mcb 32 A, B, 3 P 2 mcb 16 A, B, 3 P 2 mcb 16 A, B, 1 P 1 mcb 2 A, C, 1 P (for heating)	MSSE56-Sta-03
Retractable connection technology-hydrant SEH56	1 CEE 63 A, 5 P 1 CEE 16 A, 5 P 3 protective contact sockets 1 distributor, 18 partitions 1 elcb 63/0,03 A, 4 P 1 mcb 63 A, B, 3 P 1 mcb 16 A, B, 3 P 3 mcb 16 A, B, 1 P 1 mcb 2 A, C, 1 P (for heating)	2 high speed clutches Type GK 1/2" (freshwater) 2 ball taps (freshwater shut-off valve) 1 high speed clutch 2" Storz 52-C 2" DIN 14037 (sewage)	MSSEH56-Sta-01



The youngest generation of the underground systems convinces with its multiplicity of positive features. Public areas keep their flexible usability if those units will be built in inner areas like shopping malls, offices, conference centers or exhibition halls. Due to the integrated climate control the units can also be used every season in outdoor areas like parkways, on market places or on terraces.

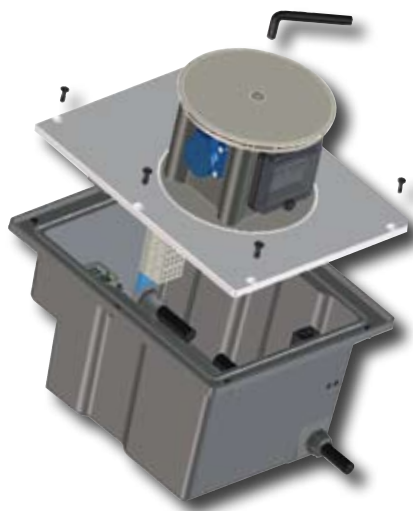
The compact and attractive design is extremely space-saving and easy to integrate. The closed complete unit convinces with a simple and quick assembly. The lifting mechanism with gas pressure spring enables a comfortable operation. A high safety standard is warranted by the use of an earth leakage circuit breaker and a pre-fuse. Due to its robust construction it is possible to passing over the retracted unit by car.

The competent counseling at design, assembly and maintenance, the excellent converting "Made in Germany" as well as the low installation costs, working costs and the superior high endurance, enthuse the architects, builder and electrical engineers.



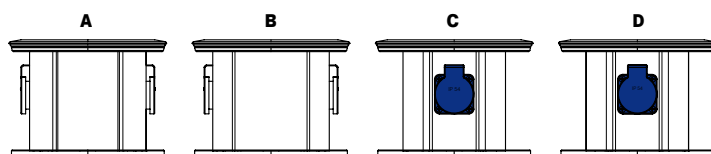
Equipment options

TerraMo - Underground connection

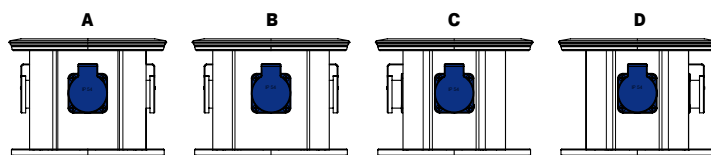


Technical data

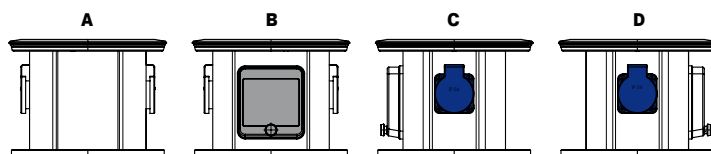
Protection class:	IP44/IP54 for sockets IP55 for distributors
Protection equipment:	Protective conductor, protection class 1
Nominal voltage / Frequency:	230/400V, 50Hz
Network:	TN-S system
Connected load:	Max. 3 kW
Max. permissible supply cable:	5 x 6 mm ²
Total weight:	11 kg
Dimensions: (H x W x D):	303 x 390 x 310 mm
Installation depth:	303 mm
Extendible height:	136 mm
Loading capacity of cover:	Supports weight of car
Heater:	20W switch cabinet heater
Lifting mechanism:	20W switch cabinet heater
Drainage connection:	1 DN 40



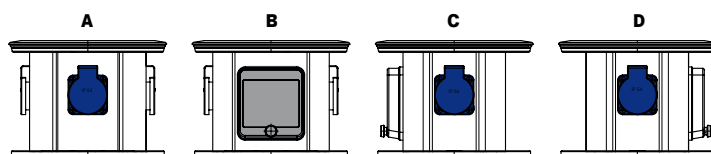
TerraMo Standard 01



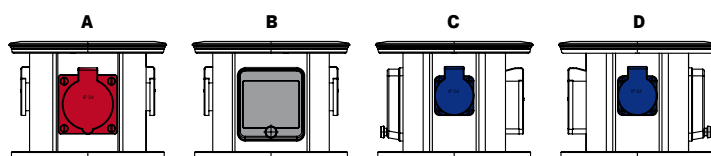
TerraMo Standard 02



TerraMo Standard 03



TerraMo Standard 04



TerraMo Standard 05

Designation	Equipment	Order No.
TerraMo Standard 01	2 protective contact sockets, 16A	TerraMo-Sta-01
TerraMo Standard 02	4 protective contact sockets, 16A	TerraMo-Sta-02
TerraMo Standard 03	1 distributor - 4 modules, 2 protective contact sockets, 16A	TerraMo-Sta-03
TerraMo Standard 04	1 distributor - 4 modules, 3 protective contact sockets, 16A	TerraMo-Sta-04
TerraMo Standard 05	1 distributor - 4 modules, 1 CEE 16A, 2 protective contact sockets, 16A	TerraMo-Sta-05



With the MOSER garden columns green arrangements are woken to new life. By their application, electricity supply and water care are uncomplicated as well as guaranteed optically attractively in countless outside areas. Whether a radio, notebook, electrical barbecue, chain of lights, tree lighting or lawn mower, MOSER garden supply towers provide power where you need it and can be equipped with the devices of your choice.

Because of these positive qualities, popular operational areas of the garden columns are botanical gardens, private gardens, commercial horticulture, nursery gardens, parks, farms, kindergartens, playgrounds, sports fields, outdoor swimming pools, leisure parks, camping places, coach ports, cemeteries or hotel arrangements.



The entrance area of a building serves as the visiting card. With this columns MOSER successfully achieves a symbiosis of technology and design. As the supply ducts are underground, admission control systems do not require walls for mounting. Available with or without light.

The discreet design of the gate intercom columns in different executions allows the application of standard control systems of famous manufacturers. Besides, their easy and quick mounting persuades every installer. With the gate intercom columns, reliable, modern admission controls are allowed for public buildings, industrial areas, car parks, underground parkings, private houses, police offices, armed forces facilities, hospitals and medical centres.



Equipment options



Garden supply towers MS10-500 / MS10-500 / MS18-800

Supply tower for outside comprising a closed aluminium profile with lid. A protective-conductor terminal with equipotential bonding is integrated for the electrical connection. The supply towers can be equipped with all common standard devices. Orders for the fixed version (base plate) and the supporting flange for MS10-1150 include a cable feed-through and dummy plugs.

Mounting

The towers can be fixed securely in the ground using either a spike or a moulded foundation block. The columns are fixed on foundations or stone flags using a base plate and with supporting flange in case of MS10-1150. We recommend using the additional mounting set for ground sockets for flexible mounting.

Other equipment and heights on request.



Equipment options

MS10-500

The MS10-500 tower is ready for mounting 2 sockets in combination.

Technical data

Dimensions: 100 x 50 x 500 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

MS10-1150

The MS10-1150 tower is ready for mounting a socket and a key switch.

Technical data

Dimensions: 100 x 50 x 1150 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

MS18-800

The tower is ready for mounting 2 sockets and can be equipped with all common standard devices. The tower is delivered with a 1/2" water connection.

Technical data

Dimensions: 180 x 100 x 800 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Designation	Boreholes	Height (mm)	Protection class	Colour	Order-No.
MS10-500 Garden tower incl. lid:	2	500	IPX5	silver	MS10-500s5-2K/G
MS10-500 Base plate fixture incl. dummy plugs			IPX5	silver	MS10-Fp5s/G
MS10-500 Ground spike fixture					MS10-Esp
MS10-500 Moulded foundation block fixture incl. round base plate and aluminium underground socket			IPX5		MS10-500-Fsf/A
MS10-500 Cover for terminals incl. terminals			IPX5	silver	MS10-Ba/Kb
MS10-1150 Garden tower incl. lid:	2	1150	IPX5	silver	MS10-1150s5-2E/G
MS10-1150 Supporting flange fixture incl. dummy plugs:			IPX5	silver	MS10-Sf5s/G
MS10-1150 Moulded foundation block fixture incl. supporting flange, round base plate and aluminium underground socket			IPX5		MS10-1150-Fsf/A
MS10-1150 Cover for terminals incl. terminals			IPX5	silver	MS10-Ba/Kb
MS18-800 Garden tower incl. water connection	2	800	IPX 5	silver	MS18-800s5-2E/W/G

MS18-GAL

Supply column for outside areas, comprising a closed rectangular profile and aluminium intermediate cover. Integrated equipotential bonding terminal with protection conductor for the electrical connection.

The column is prepared at the factory for equipping on one side with all standard equipment programs. A cable feed-through and dummy plugs are supplied for mounting with a base plate.



Technical data light

Protection class: IP 44
Material: aluminium, anodised
Colour: silver s anodised

Technical data MS18-GAL

Dimensions: 180 x 100 x 800 mm
Protection class: IP 44
Material: aluminium, anodised
Colour: silver s anodised

Equipment options

Including mounted light, emits light in all directions

- Light module, comprising:
- top cover plate of anodised aluminium
 - corner angles with acrylic glass panes and louvered reflectors (anti-glare)
 - Bulb socket E27
 - 18W energy-saving lamp
 - prewired to cables and terminals

MS18-GAL optional with a 1/2" water connection.

MSR12-GAL/MSR20-GAL

Supply column for outside areas, comprising a closed round profile of aluminium with a flat side for equipping, including round segment profile for covering the section of the tower that is not equipped, 2 plastic segment covers, aluminium intermediate cover, incl. equipotential bonding terminal with protection conductor.

The column is prepared at the factory for equipping on one side with all standard equipment programs. (Frame width max. 85mm)

Mounting

Including rectangular base plate of anodised aluminium t=10mm for normal cable feed-through including mounting screws and plugs.



Technical data light

Protection class: IP 44
Material: aluminium, anodised
Colour: silver s anodised

Technical data MSR12-GAL

Dimensions: Ø 120 x h mm
Protection class: IP 44
Material: aluminium, anodised
Colour: silver s anodised
Hole pattern: 1.1 for standard device equipping (switch/sockets, etc.)

Technical data MSR20-GAL

Dimensions: Ø 200 x h mm
Protection class: IP 44
Material: aluminium, anodised
Colour: silver s anodised
Hole pattern: 1.1 for standard device equipping (switch/sockets, etc.)

Including mounted light

- Light module, comprising:
- top cover plate of anodised aluminium
 - acrylic-glass cylinder
 - louvered reflectors
 - Bulb socket E27
 - 18W energy-saving lamp
 - prewired to cables and terminals

Designation	Boreholes	Height (mm)	Protection class	Colour	Order-No.
MSR12-GAL garden supply tower with mounted light	2	500	IP 44	silver	MSR12-500s4-2K-GAL
MSR12-GAL garden supply tower with mounted light	2	800	IP 44	silver	MSR12-800s4-2K-GAL
MS18-GAL garden supply tower with mounted light	2	800	IP 44	silver	MS18-800s4-2K-GAL
MS18-GAL garden supply tower with mounted light	2	1400	IP 44	silver	MS18-1400s4-2K-GAL
MSR20-GAL garden supply tower with mounted light	2	500	IP 44	silver	MSR20-500s4-2K-GAL
MSR20-GAL garden supply tower with mounted light	2	1150	IP 44	silver	MSR20-1150s4-2K-GAL

More mounting options and heights on request.

Garden supply towers with orientation light

MS18-GOL

Supply column for outside areas, comprising a closed rectangular profile and aluminium intermediate cover. Integrated equipotential bonding terminal with protection conductor for the electrical connection.

The column is prepared at the factory for equipping on one side with all standard equipment programs.

A cable feed-through and dummy plugs are supplied for mounting with a base plate.



Technical data MS18-GOL

Dimensions: 180 x 100 x h mm
Protection class: IP44
Material: aluminium, anodised
Colour: silver s anodised
Hole pattern: 13 for cavity wall sockets with standard device equipping (switch/sockets, etc.)

Equipment options

LED cover

Light module, comprising:

- top cover plate of anodised aluminium
- with installed "LED strip light", water resistantly poured
- LED driver supply unit 24V
- prewired to cables and terminal

MSR12-GOL/MSR20-GOL

Supply column for outside areas, comprising a closed round profile of aluminium with a flat side for equipping, including round segment profile for covering the section of the tower that is not equipped, 2 plastic segment covers, aluminium intermediate cover, incl. equipotential bonding terminal with protection conductor.

The column is prepared at the factory for equipping on one side with all standard equipment programs. (Frame width max. 85 mm)

Mounting

Including round base plate of anodised aluminium, t = 10 mm for normal cable feed-through including mounting screws and plugs.



Technical data MSR12-GOL

Dimensions: Ø 120 x h mm
Protection class: IP44
Material: aluminium, anodised
Colour: silver s anodised
Hole pattern: 1.1 for standard device equipping (switch/sockets, etc.)

Technical data MSR20-GOL

Dimensions: Ø 200 x h mm
Protection class: IP44
Material: aluminium, anodised
Colour: silver s anodised
Hole pattern: 1.1 for standard device equipping (switch/sockets, etc.)

Technical data LED cover

Protection class: IP44 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

The standard columns can be retrofitted with an LED cover.

Designation	Boreholes	Height (mm)	Protection class	Colour	Order-No.
MSR12-GOL garden supply tower with orientation light	2	500	IP 44	silver	MSR12-500s4-2K-GOL
MSR12-GOL garden supply tower with orientation light	2	1150	IP 44	silver	MSR12-1150s4-2K-GOL
MSR12-GOL LED cover (for retrofitting)			IP 44	silver	MSR12-GOL
MS18-GOL garden supply tower with orientation light	2	800	IP 44	silver	MS18-800s4-2K-GOL
MS18-GOL garden supply tower with orientation light	2	1400	IP 44	silver	MS18-1400s4-2K-GOL
MS18-GOL LED cover (for retrofitting)			IP 44	silver	MS18-GOL
MSR20-GOL garden supply tower with orientation light	2	800	IP 44	silver	MSR20-800s4-2K-GOL
MSR20-GOL garden supply tower with orientation light	2	1150	IP 44	silver	MSR20-1150s4-2K-GOL
MSR20-GOL LED cover (for retrofitting)			IP 44	silver	MSR20-GOL

More mounting options and heights on request.

MSR20 / MS18 Column without light

Gate intercom columns for installing in entrance areas on paved surfaces and in the ground.

Gate intercom columns can be equipped with intercom systems. The following brands with 1, 2, 3 and 4 modules can be used:

- Siedle
- Ritto
- Grothe
- Balcom
- (Seko-)BTicino/Terraneo
- Fermax
- Urmet
- TCS
- ... etc.

Comprising of:

The MS18 gate intercom column comprises an anodised aluminium profile, cover, foot-plate. (Grid plate for mounting the intercom when required)

The MSR20 gate intercom column comprises an anodised aluminium profile, cover, foot-plate. (Grid plate for mounting the intercom when required)

Mounting

The supply columns are available with a variety of mounting methods, depending on the requirements of the location in question. The columns can be securely installed in the ground using a moulded foundation block.

We recommend using the additional mounting set with ground socket for flexible mounting of **MS18**.

A base plate is used for mounting on stone flags.

Technical data MS18 without light

Dimensions: 180 x 100 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Technical data MSR20 without light

Dimensions: Ø 200 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Option with LED cover:

LED cover

- Light module, comprising:
- top cover plate of anodised aluminium
 - with installed "LED strip light", water resistantly poured
 - LED driver supply unit 24 V
 - Prewired to cables and terminal

Technical data LED cover

Protection class: IP44
Material: Aluminium, eloxiert
Colour: silver s anodised

The standard gate intercom columns MS18 and MSR20 can be retrofitted with an LED cover.

Additional versions, e.g. with switch and sockets on request.

When ordering the column specially for an intercom system, specify the required type.

When ordering the gate intercom columns with orientation light, please add **"OL"** to the Order-No.

With technical questions please contact directly to company Moser Systemelektrik GmbH.



Equipment options

Designation	Height (mm)	Protection class no light	Protection class with light	Colour	Order-No. no light	Order-No. with light
MSR20 gate int. column/1 module	1400	IPX5	IP 44	silver	MSR20-1400s5-Typ1	MSR20-1400s4-Typ1-OL
MSR20 gate int. column/2 modules	1400	IPX5	IP 44	silver	MSR20-1400s5-Typ2	MSR20-1400s4-Typ2-OL
MSR20 gate int. column/3 modules	1400	IPX5	IP 44	silver	MSR20-1400s5-Typ3	MSR20-1400s4-Typ3-OL
MSR20 gate int. column/4 modules	1400	IPX5	IP 44	silver	MSR20-1400s5-Typ4	MSR20-1400s4-Typ4-OL
MSR20-GOL LED cover (for retrofitting / option)			IP 44	silver		MSR20-GOL
MS18 gate int. column/1 module	1400	IPX5	IP 44	silver	MS18-1400s5-1	MS18-1400s4-1-OL
MS18 gate int. column/2 modules	1400	IPX5	IP 44	silver	MS18-1400s5-2	MS18-1400s4-2-OL
MS18 gate int. column/3 modules	1400	IPX5	IP 44	silver	MS18-1400s5-3	MS18-1400s4-3-OL
MS18 gate int. column/4 modules	1400	IPX5	IP 44	silver	MS18-1400s5-4	MS18-1400s4-4-OL
MS18-GOL LED cover (for retrofitting / option)			IP 44	silver		MS18-GOL



Even children are aware that electricity and water are not compatible. Extreme caution is therefore necessary when power is supplied in moist environments, e.g. marinas, swimming pools or campsites. A safe and elegant solution for these areas are the connection columns for marinas and campsites.

Not only the crew in the harbour but also the holidaymaker on the campsite can connect the required supply lines at the stand-by "energy suppliers" for electricity and drinking water.

The two types of column MS18 and MS290 are manufactured from wind and weatherproof lightweight metal and can be individually equipped with every type of connection for electricity, water, gas or telecommunication. Metering systems can also be accommodated in the columns. The lockable door protects against unauthorized access.



Equipment options



MS18

MS18 connection column for marinas and campsites comprises a closed aluminium profile, cover, base plate and equipotential bonding with protective-conductor terminal.

The column is available with or without a lockable door.

Technical data

Dimensions: 180x205xh(with door)
180x100xh mm
(without door)
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.



MS290

MS290 connection column for marinas and campsites comprises two side panels, back panel, cover and base plate, equipotential bonding with protective-conductor terminal. The column is equipped on an aluminium plate on one side.

The MS290 is supplied with a lockable door.

Technical data

Dimensions: 290 x 314 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.

Equipment:

- MS18 type 1:** 2 protective contact sockets
1 CEE 16A, 5P
1 distributor, 6 partitions (2 mcb 16A, B, 1P;
1 mcb 16A, B, 3P)
1 distributor, 6 partitions (1 elcb 40A, 0,03A, 4P)
- MS18 type 2:** 2 CEE 16A, 3P angled
1 distributor, 6 partitions (2 mcb 16A, B, 1P;
1 elcb 40A, 0,03A, 2P)
1 water supply 1/2"
1 orientation Light
- MS18 type 3:** 2 CEE 16A, 3P angled
1 distributor, 6 partitions (2 mcb 16A, B, 1P;
1 elcb 40A, 0,03A, 2P)
2 electricity meters

Equipment:

- MS290 type 1:** 4 CEE 16A, 230V, 3P angled
1 distributor, 12 partitions (1 elcb 40A, 0,03A, 4P;
4 mcb 16A, B, 1P)
- MS290 type 2:** 4 protective contact sockets
1 distributor, 12 partitions (1 elcb 40A, 0,03A, 4P;
4 mcb 16A, B, 1P)
- MS290 type 3:** 4 protective contact sockets
4 CEE 16A, 230V, 3P angled
1 distributor, 12 partitions (1 elcb 63A, 0,03A, 4P;
8 mcb 16A, B, 1P)
- MS290 type 4:** 4 protective contact sockets
1 CEE 16A, 5P angled
1 CEE 32A, 5P wall socket
1 distributor, 12 partitions (1 elcb 63A, 0,03A, 4P;
2 mcb 16A, B, 1P; 1 mcb 16A, B, 3P;
1 mcb 32A, B, 3P)

Designation	Height (mm)	Protection class	Colour	Order-No.
MS18 type 1 with door	1100	IPX5	silver	MS18-1100s5-MAT2S/1C5.16
MS18 type 1 without door	1100	IPX5	silver	MS18-1100s5-MA2S/1C5.16
MS18 type 2 with door	1100	IPX5	silver	MS18-1100s5-MAT2C3.16/W/L
MS18 type 2 without door	1100	IPX5	silver	MS18-1100s5-MA2C3.16/W/L
MS18 type 3 with door	1100	IPX5	silver	MS18-1100s5-MAT2C3.16/2Z
MS18 type 3 without door	1100	IPX5	silver	MS18-1100s5-MA2C3.16/2Z
MS290 type 1	600	IPX5	silver	MS290-600s5-Ma1
MS290 type 2	600	IPX5	silver	MS290-600s5-Ma2
MS290 type 3	700	IPX5	silver	MS290-700s5-Ma3
MS290 type 4	800	IPX5	silver	MS290-800s5-Ma4



Connection columns for office

Architects and builder-owner require more flexibility and therefore decide more and more for raised floors. Furthermore the modern architecture out of glass, elements of steel, tiled floor, ceramic floor require connector elements which are waterproof and located away from walls. Designer and installer have to adapt themselves to these changed needs. The positive features of MOSER connection columns just like the guaranteed safety, the easy fitting, the flexible choice of their position, the individual equipment, the easy operation and the elegant design alleviate an innovative planning and installation.

Due to the diversity of the possible equipment the connection columns can be prepared according to individual needs. The columns are compatible with all standard types of devices, communication devices and switches. Existing out of high class, anodized aluminum the columns are weather-proof, fire-resistant and shock-proof. Additionally they fulfill all prescriptions and requirements of VDE. Popular application areas of the columns are public places like offices, banks, doctor's offices or administrative buildings. In these areas the columns enable not only a practical current supply of the workplaces but rather fulfill a high safety aspect.



Equipment options

MSR12

MSR12 connection column for offices comprises a closed round aluminium profile with flat surface for equipping (A) including round segment profile for covering the non-equipped part of the column, 2 segment covers, equipotential bonding terminal, without base plate. The column can be equipped on one side with all standard device ranges.

Mounting possibilities

The MSR12 connection column for offices can be mounted directly on the floor using the base plate. The mounting set, comprising ground socket with base plate, is suitable for mounting on screed flooring, on double floors or for connecting to underground systems.



Equipment options



MS10

MS10 connection column for offices comprises a closed, anodised aluminium profile with cover and equipotential bonding with protective-conductor terminal. The connection column for offices can be equipped on one side with all standard device ranges.

Mounting possibilities

The MS10 connection column for offices can be mounted directly on the floor using the base plate. The mounting set, comprising ground socket with base plate, is suitable for mounting on screed flooring, on double floors or for connecting to underground systems.

The MS10 connection column for offices can also be supplied with a plug-in connector. For mounting purposes, this type of column requires the base plate MS10-Fp-St-0s and the high ground socket MS10-Bdh0s. Intermediate bearings for sockets, plugs and sockets must also be ordered separately.

Technical data

Dimensions: Ø 120 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised after RAL 9006

Technical data

Dimensions: 100 x 50 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised after RAL 9006

Other equipment and heights on request.

Other equipment and heights on request.

Designation	Boreholes top	Boreholes bottom	Height (mm)	Protection class	Colour	Order-No.
MSR12 connection column for offices	2	-	300	IPX0	silver	MSR12-300s0-2
MSR12 connection column for offices	3	-	500	IPX0	silver	MSR12-500s0-3
MSR12 connection column for offices	3	1	500	IPX0	silver	MSR12-500s0-3/1
Base plate				IPX0	silver	MSR12-Fp0s-T1
Base plate for MS15 ground socket				IPX0	silver	MSR12-Fp0s-T3
Ground socket				IPX5	silver	MS15-Bd5s-T3
MS10 connection column for offices	3	-	300	IPX0	silver	MS10-300s0-3
MS10 connection column for offices	2	1	500	IPX0	silver	MS10-500s0-2/1
MS10 connection column for offices	3	2	500	IPX0	silver	MS10-500s0-3K/2K
Base plate not for plug-in-connections			8	IPX0	silver	MS10-Fp0s
Base plate for plug-in-connections			8	IPX0	silver	MS10-Fp-St-0s
Ground socket low			52	IPX5	silver	MS10-Bdn5s
Ground socket high			82	IPX5	silver	MS10-Bdh5s
Blind cover for ground socket			5		silver	MS10-Ba
Intermediate store for jacks						MS10-ZIB
Plug-modules 16A/400V, 10P						MS-St16-400-10
Jack-modules 16A/400V, 10P						MS-Bu16-400-10

Floor connection columns for offices MS15 / MS240



MS15

MS15 connection column for offices comprises a closed, anodised aluminium profile with cover and equipotential bonding with protective-conductor terminal. It can be equipped on one or both sides with all standard devices, including high and low voltage devices. A separating rail is necessary for separating various electric circuits inside a column.

The MS15 connection column for offices can be mounted directly on the floor using the base plate. The mounting set with ground socket is suitable for mounting on screed flooring and on double floors. The MS15 connection column for offices can also be supplied with a plug-in connector. Intermediate bearings for sockets, plugs and sockets must be ordered separately.



MS240

MS240 connection column for offices for equipping with standard devices, instabus devices, selective back-up, distribution.

The MS240 offers sufficient manoeuvring space for functional bending radii and strain relief for coaxial cables, optical waveguides, stranded conductors (twisted) and high voltage lines. MS240 comprises a flush-flitted base plate, profiled side panels, screw-on cover, separating rail including a C-rail and a top hat rail for mounting terminals and strain relief, equipotential bonding terminal, 2 device plates.

Technical data

Dimensions: 150 x 100 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised after RAL 9006

Technical data

Dimensions: 240 x 175 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised after RAL 9006

Designation	Boreholes side A side B	Height (mm)	Protection class	Colour	Order-No.
MS15 connection column for offices	3 3	300	IPX0	silver	MS15-300s0-A3B3
MS15 connection column for offices	4 4	500	IPX0	silver	MS15-500s0-A4B4
MS15 connection column for offices	3/2 3/2	500	IPX0	silver	MS15-500s0-A3/2KB3/2K
Base plate not for plug-in-connections			IPX0	silver	MS15-Fp0s-T2
Base plate for plug-in-connections, square			IPX5	silver	MS15-Fp5s-T4
Ground socket square			IPX5	silver	MS15-Bd5s-T1
Base plate round not for plug-in-connections			IPX5	silver	MS15-Fp5s-T3
Base plate round for plug-in-connections			IPX5	silver	MS15-Fp5s-T5
Ground socket, round			IPX5	silver	MS15-Bd5s-T3
Intermediate store for jacks					MS15-ZIB-T4
Separation bar		300			MS15-Ts300
		500			MS15-Ts500
Plug-module	35A/600V, 6P				MS-St35-500-6
	16A/600V, 10P				MS-St16-400-10
Jack-module	35A/600V, 6P				MS-Bu35-500-6
	16A/600V, 10P				MS-Bu16-400-10
EDV Jack	2xRJ45, CAT6				MS-Bu-EDV-RJ45
Standard set MS240		310	IPX0	silver	MS240-Gb300s0
Standard set MS240		410	IPX0	silver	MS240-Gb400s0
Standard set MS240		510	IPX0	silver	MS240-Gb500s0
Device plate 4 boreholes for built-in socket, 2x2-duplex combi.		300	IPX0	silver	MS240-Gp1
Device plate 6 boreholes for built-in socket, 2x3-duplex combi.		400	IPX0	silver	MS240-Gp3
Device plate 10 boreholes, 2x2-duplex combi., 2x3-duplex comb.		500	IPX0	silver	MS240-Gp10

Ceiling connection columns for offices MSD10 / MSDR12



MSD10

MSD10 ceiling connection column for offices for vertical connection technology, for supplying power from either the ceiling or the floor, comprising a closed aluminium profile prepared for equipping one side with all standard device ranges including high and low voltage devices.

The column is divided into 6 positions. Each position can be equipped with the required drilling unit.

A separating rail can be provided for separating various electric circuits inside a column.

Technical data

Dimensions: 100 x 50 x 2700 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.



MSDR12

MSDR12 ceiling columns for offices for vertical connection technology, for supply power from either the ceiling or the floor comprising closed aluminium profile prepared for equipping one side with all standard devices including high and low voltage devices.

The column is divided into 6 positions for equipping purposes. Each position can be equipped with the required drilling unit.

Technical data

Dimensions: Ø 120 x 2700 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.

Equipment options

Drilling units						Height (mm)	Protection class	Colour	Order-No.
1	2	3	4	5	6				
MSD10 Ceiling connection column									
G	-	-	-	-	-	2700	IPX0	silver	MSD10-2700-G00000s0
G	F	-	-	-	-	2700	IPX0	silver	MSD10-2700-GF0000s0
G	F	E	-	-	-	2700	IPX0	silver	MSD10-2700-GFE000s0
Clamp attachment set , intermediate ceilings								silver	MSD10-SpZ0s
Separation bar						2700	IPX0	silver	MSD10-Ts2700
MSDR12 Ceiling connection column									
G	-	-	-	-	-	2700	IPX0	silver	MSDR12-2700-G00000s0
G	F	E	-	-	-	2700	IPX0	silver	MSDR12-2700-GFE000s0
F	F	F	-	-	-	2700	IPX0	silver	MSDR12-2700-FFF000s0
Clamp attachment set , visible ceilings								silver	MSDR12-SpZs
Separation bar						2700		silver	MSDR12-Ts2700
Drilling unit E						1 standard device			
Drilling unit F						2 standard devices in combination			
Drilling unit G						3 standard devices in combination			



Supplying Industrial workplaces with power, data and signals without disturbing operation, requires sound planning and the appropriate technology. Such tasks can be optimally solved by employing connection columns for industry.

The floor and ceiling columns for industry have outstandingly proved their worth in practice as versatile energy suppliers for electricity, electronics, compressed air, gasses and fluids. They provide the required connections at the place of action and permit short incoming cables.

Depending on the available space and room conditions, MOSER is the only manufacturer who offers a variety of installation possibilities for both the floor and the ceiling: For supplies via the ceiling, ceiling connection columns are the right solution.

If trolleys prevent an installation or the ceilings are too high then floor columns are the answer.

The robust and waterproof supply columns brave the daily tough industrial environment and remain reliable supply energy suppliers over many years.



Equipment options



Equipment option

MS15

MS15 connection column for industry for vertical connection technology comprising closed aluminium profile with cover and equipotential bonding with protective-conductor terminal, distributor (with 6 partitions), circuit-breaker and built-in devices.

Equipment

One or two sides with all standard device ranges, including high and low voltage devices, industrial sockets and CEE-surface-mounted sockets, straight up to 5x32A and on 3 sides (additional, e.g. compressed air)

Mounting possibilities

The MS15 connection column for industry can be mounted directly on the floor using the base plate. The mounting set comprising ground socket and base plate is suitable for mounting on screed flooring, on double floors or for connecting to underground systems. Either the square or round ground socket can be used. The MS15 industrial column is also deliverable with a modular connector. For the fixation of this type of column you need the base plate MS15-Fp5s-T4M and the ground socket MS15-Bd5s-T2. Hinged frames, modules and intermediate bearings for modular connector have to be ordered separately, too.

Technical data

Dimensions: 150 x 100 x h mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.

Designation	Boreholes side A	Height (mm)	Protection class	Colour	Order-No.
MS15 without equipment	3	500	IPX5	silver	MS15-500s5-IA3
MS15 without equipment	4	500	IPX5	silver	MS15-500s5-IA2/2
MS15 without equipment	4	800	IPX5	silver	MS15-800s5-IA4
MS15 without equipment	5	800	IPX5	silver	MS15-800s5-IA5
MS15 without equipment	6	800	IPX5	silver	MS15-800s5-IA4/2
Designation	Equipment	Height (mm)	Protection class	Colour	Order-No.
MS15 with equipment	2 protective contact sockets, 1 distributor, 1 CEE 5x16A	660	IPX5	silver	MS15-660s5-VT1
MS15 with equipment	2 protective contact sockets, 1 distributor 1 CEE 5x16A, compressed air	660	IPX5	silver	MS15-660s5-VT2
MS15 with equipment	2 protective contact sockets, 1 distributor, 1 CEE 5x32A	660	IPX5	silver	MS15-660s5-VT3
MS15 with equipment	2 protective contact sockets, 1 distributor, 1 CEE 5x32A, compressed air	660	IPX5	silver	MS15-660s5-VT4
Designation			Protection class	Colour	Order-No.
Ground socket T2			IPX5	silver	MS15-Bd5s-T2
Base plate T4M			IPX5	silver	MS15-Fp5s-T4M
Blind cover				silver	MS15-Ba-T1
Ground socket, round			IPX5	silver	MS15-Bd5s-T3
Blind cover, round				silver	MS15-Ba-T3
Intermediate store for modular jacks				silver	MS15-ZIB-T4M
HAN-modular-hinged frame, upper part and base					HAN-24B
Data, Gigabit pin insert and Gigabit bushing					HAN-GigaBitModulKat6
Current, HAN EE Module 16, 400V pin insert and HAN EE module 16A, 400V bushing					HAN-EEModul16A400V
Current, HAN 70A pin insert and HAN 70A bushing					HAN-70AModul
Fiber optics, HAN SC pin insert (LWL) and HAN SC-bushing (LWL)					HAN-SC
Coupling for air pressure in ground socket					DLK-1/4-Bd
Attention! There are only a limited number of compact coupling devices available.					

Attention! There are only a limited number of compact coupling devices available.

Ceiling connection columns for industry MSD15 / MSDI165+



MSD15

MSD15 ceiling connection column for industry for vertical connection technology, for supplying power from either the ceiling or the floor, comprising closed aluminium profile prepared for equipping one 1, 2 or 4 sides with all standard device ranges including high and low voltage devices and emergency-off button or CEE surface-mounted sockets up to 63A and distribution fuse board up to max. 6 partitions.

The column is divided into 6 positions for equipping purposes. Each position can be equipped with the required drilling unit.

For columns that require equipping on 2 sides, please specify the required boreholes on the 2nd side separately.

A separating rail is necessary for separating various electric circuits inside a column.

Drilling units:

- D** 1 emergency-off button
- E** 1 standard device
- F** 2 standard devices in combination
- G** 3 standard devices in combination
- H** 1 CEE straight 3 x 16 A; 5 x 16 A or 5 x 32 A
- N** 4 protective contact sockets

Technical data

Dimensions: 150 x 100 x 2700 mm
 Protection class: IPX5 (waterproof)
 Material: aluminium, anodised
 Colour: silver s anodised

Other equipment and heights on request.



MSDI165+

MSDI165+ ceiling connection column for industry for vertical connection technology, for supplying energy from either the ceiling or the floor comprising:

1 closed extruded aluminium profile, especially for the electrical connections.

2 side flaps for e.g. compressed air, vacuum connections, suction lines, water and other media if technically possible. Column cover and base plate.

Equipping possibilities:

On 1, 2 and 4 sides with all standard device ranges including high and low voltage devices as well as an emergency-off button or CEE-surface-mounted sockets up to 63A and distribution fuse board up to max. 8 partitions per distributor.

Compressed air units, vacuum connections, suction lines, water and other media if technically possible.

Technical data

Dimensions: 295 x 120 x 3000 mm
 Protection class: IPX5 (waterproof)
 Material: aluminium, anodised
 Colour: silver s anodised

Other equipment and heights on request.

Equipment options

Drilling units						Height (mm)	Protection class	Colour	Order No.
1	2	3	4	5	6				
MSD15 Ceiling connection column for industry									
G	F	F	E	-	-	2700	IPX5	silver	MSD15-2700-GFFE00s5
H	H	-	N	-	-	2700	IPX5	silver	MSD15-2700-HH0N00s5
H	H	-	N	D	-	2700	IPX5	silver	MSD15-2700-HH0ND0s5
Clam attachment set for visible ceilings							IPX5	silver	MSD15-SpS5s
Clam attachment set for intermediate ceilings							IPX0	silver	MSD15-SpZ0s
Separation bar						2700		silver	MSD15-Ts2700
MSDI165+ Ceiling connection column for industry									
Basic kit for columns						3000	IPX5	silver	MSDI165+3000-s5-Gb
Side flap 1						3000	IPX5	silver	MSDI165+3000s5-S1
Side flap 2						3000	IPX5	silver	MSDI165+3000s5-S2
Compressed air unit with 1 x 1/4" coupling socket									MSDI165+Dle-T1
Compressed air unit with 2 x 1/4" coupling sockets									MSDI165+Dle-T2
Clam attachment set							IPX5	silver	MSDI165+SpZ5s



Equipment options

Cleanrooms and laboratories use many technical devices and modern technology which have not been used a few years ago. It is usually difficult to enable the supply of the working places in an adequate way afterward. This comprises not only the current supply, but rather the supply of air pressure or data sockets.

The MOSER connection columns made out of anodized aluminum enable an extremely efficient and cost-saving solution. Furthermore these columns convince with their outstanding features. Especially the application in the production of microelectronics is an approved method as the supply of electrical connection for big production areas and for single working places is requested. As simple wall ducts are not advisable, a special solution for this problem is long-needed necessary. Therefore we have certified the existing connection columns for the application in cleanrooms and convince now as a competent partner in the professional fitting of cleanrooms. According to ISO 14644-1 the possible application in cleanrooms (air purity class 1) has been confirmed with the IPA-certificate by the Fraunhofer Institute.

As they can be cleaned and disinfected without problems, they fulfill all requirements of a hygienic design. Furthermore the ceiling suspension supports a low turbulence displacement flow and enables an application in Laminar-Flow-Units.

Ceiling connection column for clean rooms MSDR12/MSD10



MSDR 12

MSDR12 ceiling connection column for clean rooms for equipping 1 side with all standard device ranges including high and low voltage devices as well as emergency-off button or CEE surface-mounted sockets up to 32A.

The column is divided into 6 positions for equipping purposes. Each position can be equipped with the required drilling unit.

Technical data

Dimensions: Ø 120 x 3000 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.



MSD10

MSD10 ceiling connection column for clean rooms for equipping 1 side with all standard device ranges including high and low voltage devices as well as emergency-off button or CEE surface-mounted sockets up to 32A.

The column is divided into 6 positions for equipping purposes. Each position can be equipped with the required drilling unit.

A separating rail is necessary for separating various electric circuits inside a column.

Technical data

Dimensions: 100 x 50 x 3000 mm
Protection class: IPX5 (waterproof)
Material: aluminium, anodised
Colour: silver s anodised

Other equipment and heights on request.

Equipment options

Drilling units						Height (mm)	Protection class	Colour	Order No.
1	2	3	4	5	6				
MSDR12 Column for clean rooms									
G	-	-	-	-	-	3000	IPX5	silver	MSDR12-3000-G00000s5
G	F	-	-	-	-	3000	IPX5	silver	MSDR12-3000-GF0000s5
G	F	E	-	-	-	3000	IPX5	silver	MSDR12-3000-GFE000s5
Clam attachment set							IPX5	silver	MSDR12-SpZ5s
Separation bar						3000		silver	MSDR12-Ts3000
MSD10 Column for clean rooms									
G	-	-	-	-	-	3000	IPX5	silver	MSD10-3000-G00000s5
G	F	-	-	-	-	3000	IPX5	silver	MSD10-3000-GF0000s5
G	F	E	-	-	-	3000	IPX5	silver	MSD10-3000-GFE000s5
Clam attachment set							IPX5	silver	MSD10-SpZ5s
Screw fastening set with supporting flange							IPX5	silver	MSD10-SSS5s
Clamp attachment set with attachment bracket							IPX5	silver	MSD10-SwZ5s
Separation bar						3000		silver	MSD10-Ts3000

Drilling unit E	1 standard device
Drilling unit F	2 standard devices in combination
Drilling unit G	3 standard devices in combination

Ceiling connection column for clean rooms MSD15 /MSDI165+



MSD15

MSD15 ceiling connection column for clean rooms for equipping 1, 2 or 4 sides with all standard device ranges including high and low voltage ranges as well as emergency-off button or CEE surface-mounted sockets up to 63A and distribution fuse board up to max. 6 partitions, as well as compressed air connections. The column is divided into 6 positions for equipping purposes. Each position can be equipped with the required drilling unit. For columns that require equipping on 2 sides, please specify the boreholes on the 2nd side separately.

A separating rail is necessary for separating various electric circuits inside a column.

Drilling units:

- D** 1 emergency-off switch
- E** 1 standard device
- F** 2 standard devices in combination
- G** 3 standard devices in combination
- H** 1 CEE straight 3 x 16A; 5 x 16A or 5 x 32A
- N** protective contact sockets

Technical data

Dimensions: 150 x 100 x 3000 mm
 Protection class: IPX5 (waterproof)
 Material: aluminium, anodised
 Colour: silver s anodised

Other equipment and heights on request.



MSDI165+

MSDI165+ connection column for clean rooms for equipping 1, 2 or 4 sides with all standard device ranges including high and low voltage ranges as well as emergency-off button or CEE surface-mounted sockets up to 63A and distribution fuse board up to max. 8 partitions.

Compressed air units, vacuum connections, suction lines, water and other media if technically possible.

The installation unit comprises a closed aluminium extruded profile specially for the electrical connections and 2 side flaps for compressed air, vacuum connections, suction lines, water and other media, if technically possible, top column cover and base plate.

Technical data

Dimensions: 295 x 120 x 3000 mm
 Protection class: IPX5 (waterproof)
 Material: aluminium, anodised
 Colour: silver s anodised

Other equipment and heights on request.

Equipment options

Drilling units						Height (mm)	Protection class	Colour	Order No.
1	2	3	4	5	6				
MSD15 Columns for clean rooms									
G	F	F	E	-	-	3000	IPX5	silver	MSD15-3000-GFFE00s5
H	H	-	N	-	-	3000	IPX5	silver	MSD15-3000-HH0N00s5
H	H	-	N	D	-	3000	IPX5	silver	MSD15-3000-HH0ND0s5
Clam attachment set for visible ceilings							IPX5	silver	MSD15-SpS5s
Clam attachment set for intermediate ceilings							IPX5	silver	MSD15-SpZ5s
Separation bar						3000		silver	MSD15-Ts3000
MSDI165+ Columns for clean rooms									
Basic kit for columns						3000	IPX5	silver	MSDI165+3000-s5-Gb
Side flap 1						3000	IPX5	silver	MSDI165+3000s5-S1
Side flap 2						3000	IPX5	silver	MSDI165+3000s5-S2
Compressed air unit with 1 x 1/4" coupling socket									MSDI165+Dle-T1
Compressed air unit with 2 x 1/4" coupling sockets									MSDI165+Dle-T2
Clam attachment set							IPX5	silver	MSDI165+SpZ5s

Mounting and installation possibilities

The MOSER column systems comprise individual modules that simplify mounting. The floor connection columns can be directly mounted on the ground using the base plate. The mounting set for the base plate contains the necessary screws. Ground sockets can also be used for mounting. They enable the flexible use of the column. If the column is not in use it can be unscrewed and a dummy cover installed in the ground socket. Thanks to the ground sockets the columns can also be connected to the existing supply ducts. Plug-in connections enable quick mounting and removal of the columns. The ground sockets are available in two shapes – round and square.



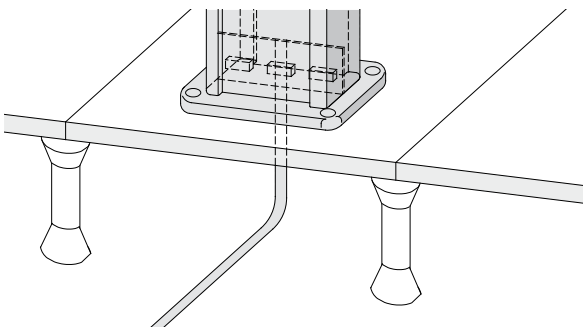
Ground socket for modular connector



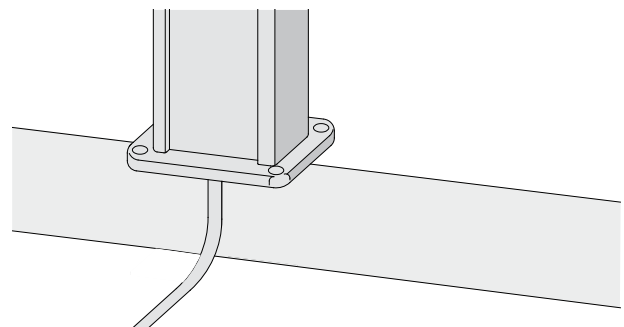
Ground socket with blind cover



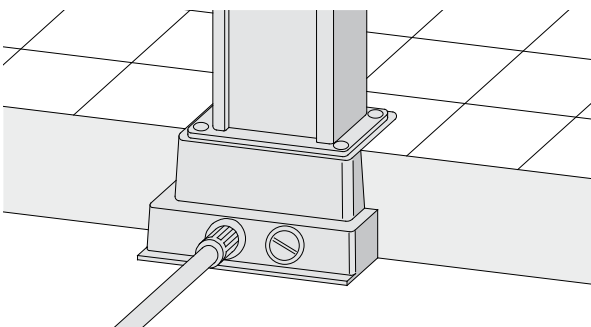
If the column is needed it can be mounted and screwed quick and easy



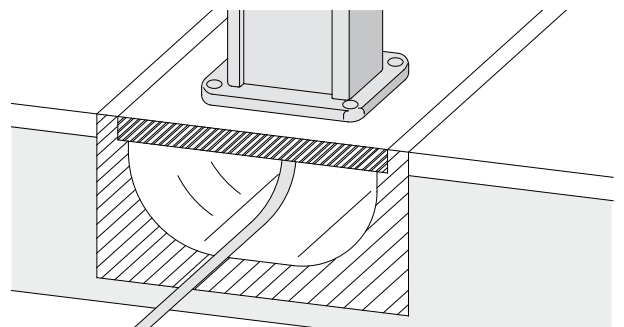
On double floors
just to screw on



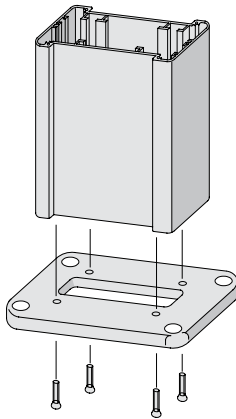
On stone floor
just to screw on (with rawl plugs)



Mounting on concrete and tiled floors with ground socket
column is removable and the ground socket is water-proof and level lockable with the ground



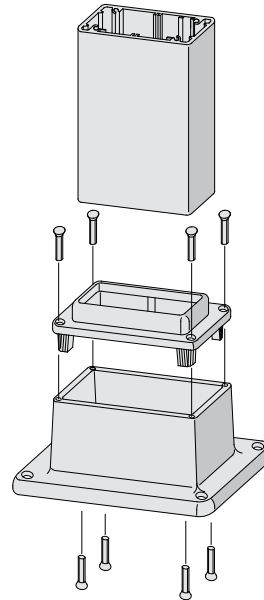
On supply channels
just to screw on



Mounting with base plate

Screw the base plate to the profile from underneath. If employing a strain relief push this first into the column and then mount the column with the base plate on the floor.

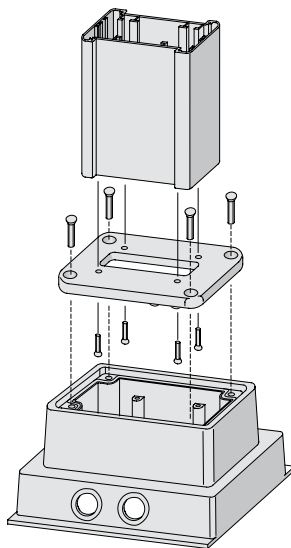
Installation instructions on the example of the MS15 column.



Mounting supporting flange

Push the press flange over the profile.
Push the supporting flange into position and screw to the profile from underneath.
Insert the cable in the profile.
Secure the supporting flange with the provided screws and plugs to the floor.

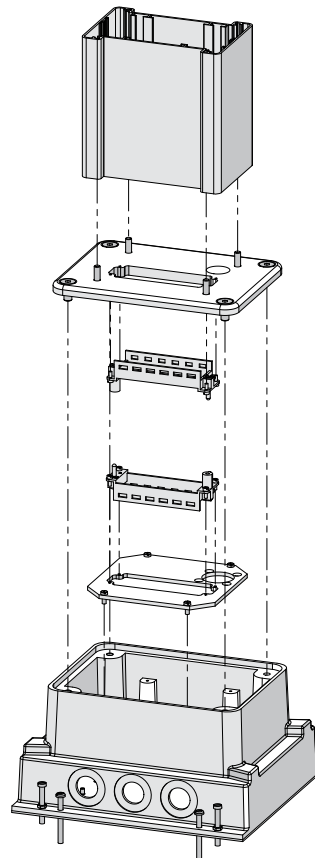
Installation instructions on the example of the MS10 column.



Mounting ground socket

Mount the ground socket to the unfinished floor and adjust to the height of the finished floor. Insert the cables in the ground socket. Spread the screed flooring.
Screw the base plate to the profile from underneath.
Then mount the column with the base plate to the floor.

Installation instructions on the example of the MS15 column.



Mounting with plug-in connector

Screw the base plate to the profile from underneath. Mount the plug-in connector to the base plate.
Then mount the intermediate bearing to the ground socket.
Mount the sockets in the intermediate bearing.
Plug the column into the sockets and connect to the ground socket.

Installation instructions on the example of the MS15 column.

Systematic modern connection technology

Moser Systemelektrik GmbH stands for innovative connection technology products for use both indoors and outdoors. The main aspects prevailing during development are not only attractive design, functionality but also compliance with all national and international safety regulations. An economical, modern production, high-quality materials and an uncompromising quality assurance ensure reliable products of premium quality.

The skills and efficiency of Moser Systemelektrik GmbH are based on the motivation and qualification of our staff and their daily readiness to implement these qualities to the benefit of the customer.

Customer satisfaction and the continuous growth of the company are the outcome of the successful symbiosis of competence and quality.



Gesamtübersicht - E - 06/2013
Technical alterations are subject to change without prior notice.
Our terms of delivery and payment are in validity.

Moser Systemelektrik GmbH
Erikaweg 1
D-78141 Schönowald
Phone +49(0)77 22/96 97-0
Fax +49(0)77 22/96 97-11
info@moser-systemelektrik.de
www.moser-systemelektrik.de