



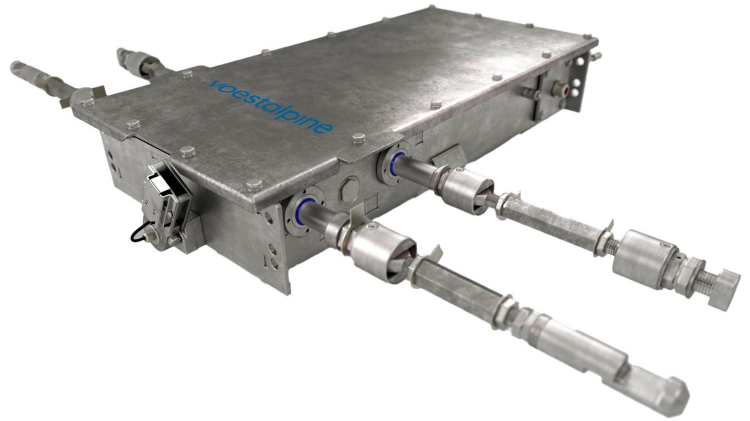
# UNISTAR CSV 24

## Electro-hydraulic point setting system for Urban and Mixed traffic

### Description

In the last decade the SIL4 certified UNISTAR CSV 24 has proven its extraordinary qualities in different countries and climate zones. Customers appreciate in particular:

- » Its stainless steel housing.
- » Permanent and durable water tightness due to the special sealing system.
- » Its monoblock hydraulic system with integrated operating cylinders.
- » The clearly visible prism lock made of high-grade special steel.
- » As well as its fully modular structure, significantly easing and reducing maintenance to the minimum.



The point machine's ultra-low profile enables for retrofit into existing earth boxes, thus avoiding any earth works!

### System advantages

- » Durable watertight and dusttight stainless steel housing, IP 67 certified
- » Protection class IP 68 with aluminium housing available
- » Extremely low profile – 180 mm constructional height only
- » Monoblock drive unit: no pipes, no hydraulic expertise required, integrated damping
- » Locking parts made of hardened special steel
- » Setting and detector rods made of stainless steel
- » Easily mounted and dismantled
- » Lock parts visible
- » Easy access to end position contacts
- » Trailable without damage, no loss of holding force
- » Safe and reliable
- » Low maintenance, low wear and tear, low noise emission
- » Prepared for zentrak – Intelligent Diagnostic Platform



### Additional description

Due to its continuously adjustable point opening UNISTAR CSV 24 is applicable for grooved rail as well as flat bottom rail turnouts with a throw range of 36-120 mm.

All its fastening elements are made of hot dip galvanized steel, providing a long lasting corrosion protection.

With the UNISTAR CSV 24 a setting system is available which can be flexibly adapted to the respective requirements and conditions thanks to its fully modular structure.

The MTTR value of the point machine is only 15 minutes.

### UNISTAR CSV 24 COMPACT

The compact version of the point machine has been specially developed for replacing existing point machines in earth boxes of the EH-71 and VS-60 series.

While the UNISTAR CSV 24 has identical components, the construction of the UNISTAR CSV 24 COMPACT could be shortened by 156 mm due to a turned hydraulic unit!

### Technical characteristics

Designation	Value / Type
Turnout Type	Grooved Rail and Vignol
Minimum gauge of the turnout (mm)	min. 900
Throw range (mm)	36-120, adjustable without part replacements
Main dimensions (LxWxH, mm)	920x450x180
Overall mass (depending on housing)	ca. 180 kg (stainless steel), ca. 135 kg (aluminium)
Temperature range	-40°C to +80°C
Safety level	SIL4 according to DIN EN 50126, 50128 and 50129
Protection class	IP67 stainless steel housing/ IP68 aluminium housing
Fixation to track	sleeper fixation angles, stock rail fixation, and earth boxes in track center or beside the track
Locking system	internal prism lock, trailable or non-trailable
Setting Time	0.5-1.5 sec
Setting Force	adjustable up to 6000N
Holding Force	adjustable up to 9.000 N
Power supply	24V, 120V, 220V, 750V DC 110V, 230V, 400V, 600V AC
Trailing speed	25 km/h