

CHARGING POLE



Turning street lighting into a source of income.

No space issues:

Smart 2-in-1 solution for charging infrastructure

No additional barriers:

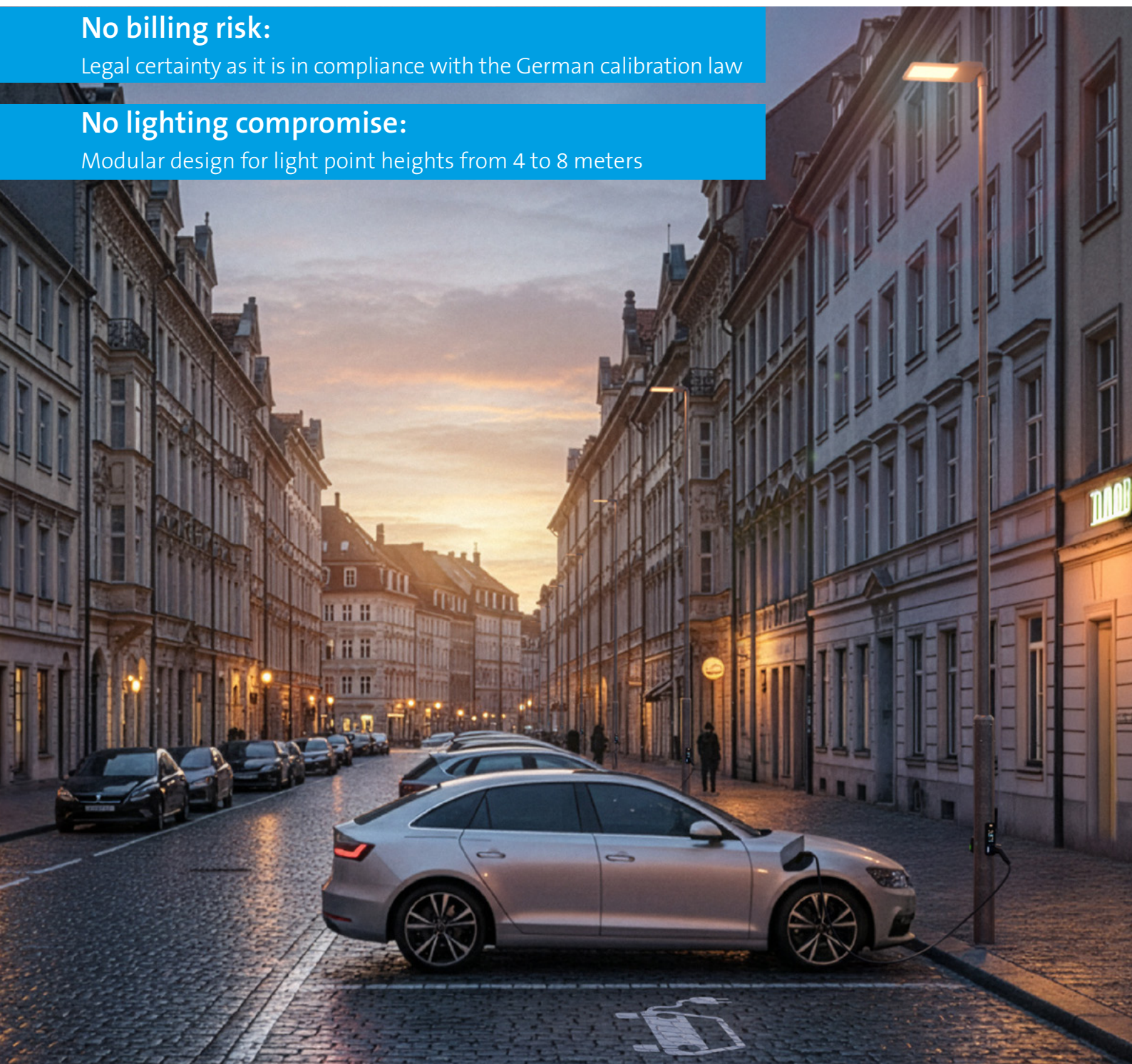
Integrated impact protection makes separate guards redundant

No billing risk:

Legal certainty as it is in compliance with the German calibration law

No lighting compromise:

Modular design for light point heights from 4 to 8 meters





© RZB

Robust. Intelligent. Compliant.

+ Space-saving and robust

The steel mast features integrated collision protection. An additional, space-consuming ram protection is not required.

+ Accessible and user-friendly

Comfortable charging with color status display and RFID authentication. ISO 15118 compliant (Plug-and-Charge).

+ Legally compliant billing

Verified calibration law compliance (Eichrecht) in a network of up to 12 charging points. Renowned backend providers are certified.

+ Smart integration

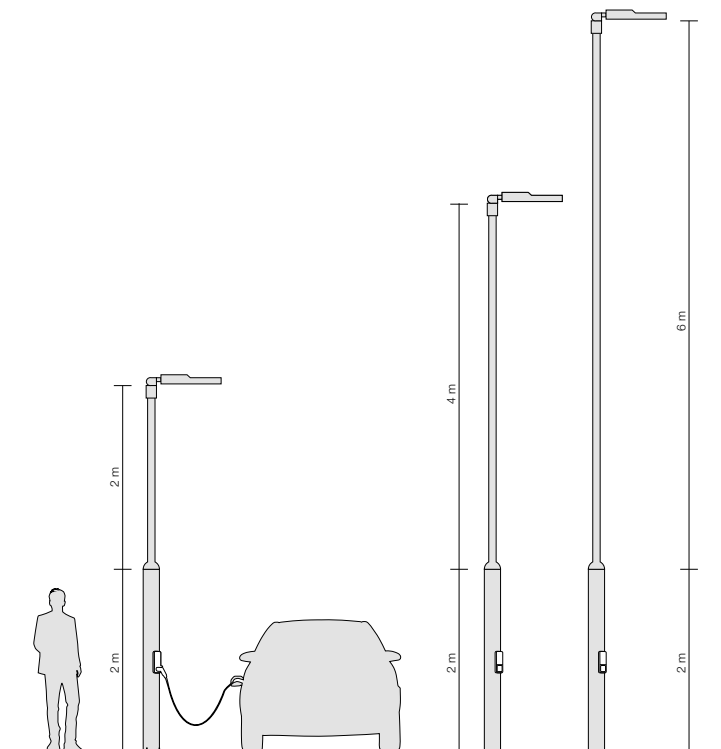
LAN connection and interfaces such as OCPP for easy operation and legally compliant billing. Ready for Grid Control: Complies with the requirements of Section 14a of the German Energy Industry Act (EnWG).

+ Powerful

Charging capacity 22 kW - simultaneous per charging point.

+ Modular flexibility

Depending on the version, this insertable mast allows for light-point heights of 4, 6, or 8 meters. The standardized 76 mm spigot diameter serves as a universal mount for a wide variety of post-top luminaires and crossarms.



CHARGING POLE

Charging pole | CHARGING POLE - Base module

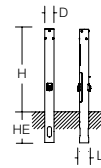
Dimensions [mm]: D 180, L 246, H 2000, HE 1200

Base module of the modular charging mast with EV charger in accordance with IEC 61851-1 Mode 3. Post tube manufactured in accordance with DIN EN 40 made of hot-galvanised steel in accordance with DIN EN ISO 1461. Additional inspection door with triangular lock for luminaire connection. Integrated collision protection - additional crash protection is not required. Spigot with 2x3 M16 threaded blanks for attaching the plug-in pole. Integrated charging container made of aluminium in the standpipe attached to the C-track. Transparent plastic viewing window for control and checking of safety devices and charge controllers.

Charging points equipped with type-2-charging sockets incl. hinged lid, connector lock, status indicator and RFID card reader for authentication. 1 user RFIF tag included in scope of delivery per charge point. Control in a charging network with up to 12 charge points possible.

Standard range of all variants: charge controller, DC leakage current detection, load protection, load management, LAN connection, OCPP interface for billing systems, solar-ready interface for charging current from PV systems.

Note modular design: For operation as luminaire pole, an additional plug-in pole is required. Module must be ordered separately.



Base module



PRO

Reference number	Charging units	Power/charging point [kW]	Charge connector	Display	Earth leakage circuit breakers	Over voltage-/surge protection	Radio LTE/2G	Energy meter	Calibration law compliant*	Colour
Base module CHARGING POLE - PRO equipment variant for public areas										
with display										
811500	2	22	Type 2 socket	✓	Type A/LS	Type-2-SPD	✓	ME	✓	metal
no display										
811501	2	22	Type 2 socket	-	Type A/LS	Type-2-SPD	✓	ME	✓	metal

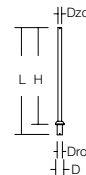
* For compliance with the calibration law on weights and measurements, at least one charging station with display is required in relation to the charging network. Stand-alone charging stations compliant with calibration regulations (without a charging network) must always be equipped with a display. Further provisions of the calibration law and charging station ordinance must be observed.

Modules | CHARGING POLE - Plug-in pole

Extension in accordance with DIN EN 40 to realise the desired light point height in connection with the base module. Hot-dip galvanised in compliance with DIN EN ISO 1461. 76 mm spigot size for all conventional post-top luminaires.

Reference number	Dimensions [mm]
------------------	-----------------

CHARGING POLE plug-in pole		Price Category 34
612397.000	L 2200, D 180, H 2000, Dzo 76 for light point height 4 m	
612398.000	L 4220, D 178, H 4000, Dzo 76 for light point height 6 m	
612399.000	L 6220, D 178, H 6000, Dzo 76 for light point height 8 m	



Plug-in pole

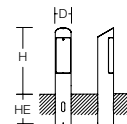


Accessories | Supply bollard

Vandal-proof supply bollard for public sector applications. For integration with TAB/TAR meters as well as isolating devices. Hot-dip galvanised in compliance with DIN EN ISO 1461. Inspection door with triangular lock.

Reference number	Dimensions [mm]
------------------	-----------------

Supply bollard		Price Category 34
612401.000	D 244, H 900 recessed height HE 600 mm	



Accessories



suitable pole top luminaires

LIGHTSTREAM

MINGATA

LUPALO SCANDIA



+ Simply smart: Streetlight charging

Thanks to its modular design and variable light heights between 4 and 8 meters, the charging pole blends harmoniously into any cityscape. With a standard spigot diameter of 76 mm, common luminaires can easily be connected. The principle of destination charging uses this synergy: vehicles charge where they are parked anyway. Without requiring additional space, classic street lighting is thus transformed into a highly efficient hub for the urban energy transition.

+ No Barriers

The barrier-free operating height of the display and socket allows wheelchair users unrestricted access. Combined with intuitive user guidance, the charging process becomes convenient and easy for all users. Thanks to the high mechanical resistance ensures integrated impact protection – making additional, space-consuming bollards or guardrails in public spaces unnecessary.



+ Billing capability

In public areas, the charging process is billed via charging stations that comply with calibration law with corresponding backend systems. The controller's OCPP interface gives you as the operator a clear overview of all charging and billing processes at all times. The S.A.F.E. transparency software ensures transparent traceability of charged and paid energy.

+ Protection from the weather

Protection against the effects of weather and vandalism is an important aspect in the planning and operation of charging stations, especially in public areas where the stations may be at risk from negligent or wilful damage. For this reason, the requirements for housings and plugs are high. We therefore use high-quality and replaceable components that always guarantee maximum protection.

