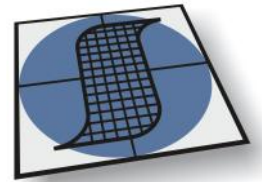
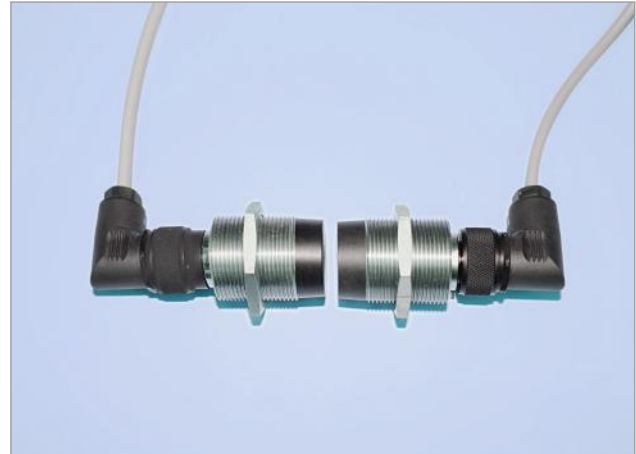


# Inductiv Coupler ALPHA

Wireless power transmission system



application example: supplying system



working arrangement of coupling devices

## Functions

### *Wireless power transmission system.*

Power transmission automatically starts when both inductors are located inside the defined position. LEDs in mobile and stationary unit indicate control and transmission status.

Integrated electronic components control power supply while on/off switching may be used as 1bit signal transmission.

## Features

- „Plug and Play“
- status LED
- mobile unit output power 4.8W/24V
- air gap 0 – 4 mm
- short-circuit-proof
- integrated surge voltage protection
- integrated reverse polarity protection
- transmission dead time approx. 1 ms
- IP Code 67 as standard; IP 68 available on request
- plug connection 3 pole industry type 423/723

## Applications

- Supplying mobile sensors and actuators
- Wireless charging of batteries (lithium-ion/lithium-polymer) on mobile systems (option)
- Controlling magnetic valves
- Activation of locking systems on mobile devices

## Technical Data

### Stationary unit

length w.o. conn. 50 mm  
outer thread M 30 x 1.5  
connection 3 pole male plug  
type 423/723

voltage 24V DC  $\pm 10\%$   
current max. 500mA

### Mobile unit

length w.o. conn. 50 mm  
outer thread M 30 x 1.5  
connection 3 pole female socket  
type 423/723

voltage 24V DC  $\pm 10\%$   
current max. 200mA  
monitor LED  
response time max. 1 ms

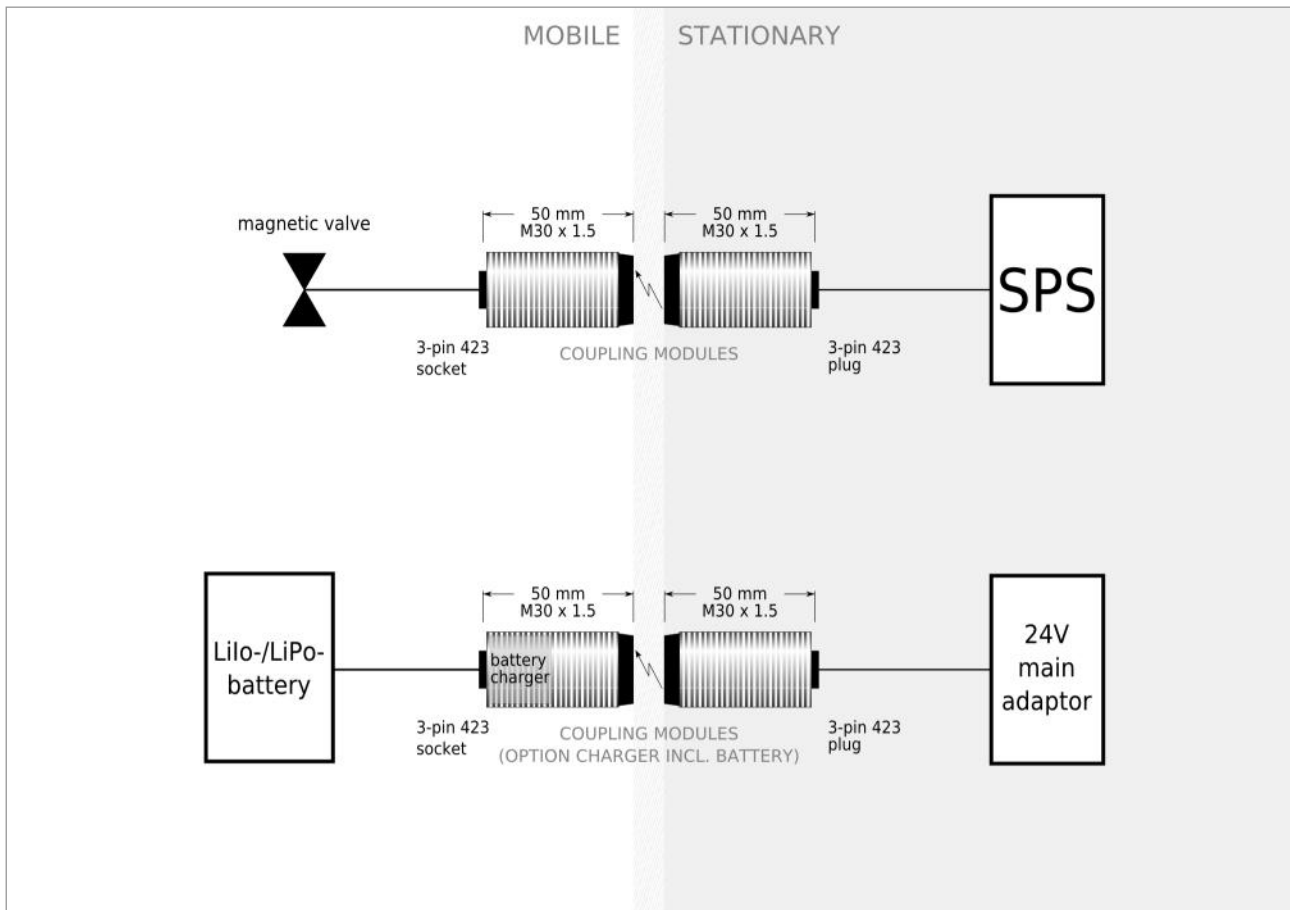
### Option with charger

voltage one cell (4.2V)  
two cells (8.4V)  
current approx. 200mA

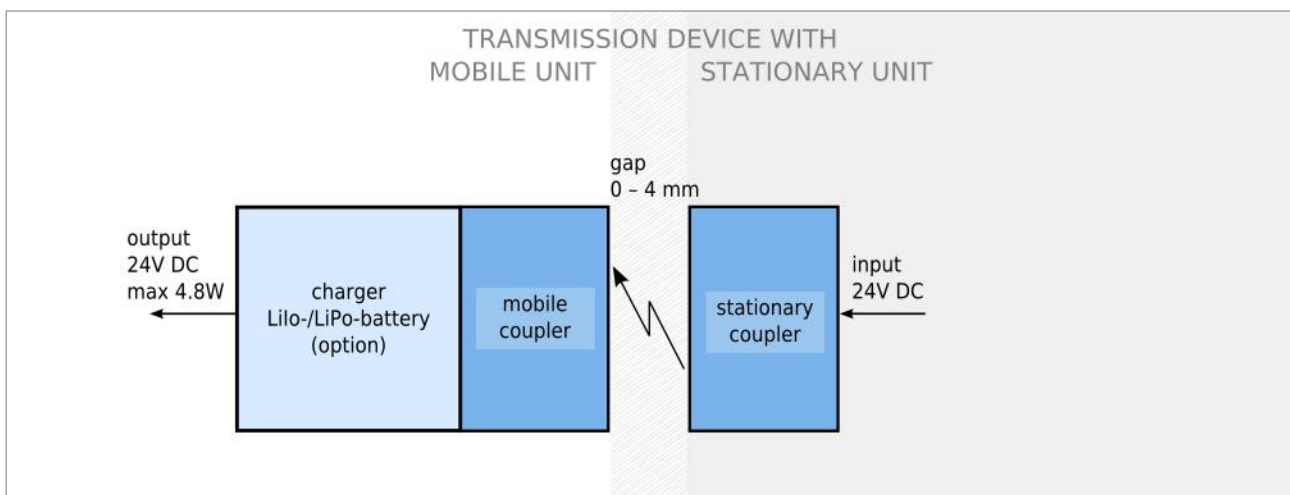
### Mounting

air gap 0 – 4 mm

## Application example



## Block diagram



## Models

Description	Order number
Stationary unit 1 .....	K112-A-S
Mobile unit with magnetic valve .....	K112-A-S
Mobile unit with Lilo-/LiPo battery charger .....	K112-A-M-C



**QSS**  
 QUALITY SYSTEMS SOLUTIONS GMBH  
 Aemet 5  
 CH-8344 Bäretswil  
 T +4144 2420000  
 F +4144 2420010  
 www.qss-solutions.ch  
 info@qss-solutions.ch