

Références et exemples de transmission sans fil de signaux (analogiques, numériques et sériels) et d'énergie pour capteurs, actuateurs et valves



Projet Delta Power et Transfer
de Dates sur culisse de montage



Projet Thermosavant 4-canal-
Mesure de Temperature dans Centrifugeuse



Projet Mesure acoustique envers
Systemes de vissage



Projet Anneau de Camera Power 100
W pour Systeme de surveillance



Projet Power et transmission
de Dates pour Roboter



Projet Systeme Vehicule
Roboter de vernissage



Projet couplage cascade
pour Systemes de Percage



Projet Capteur Terrain avec
Transmission rotatif



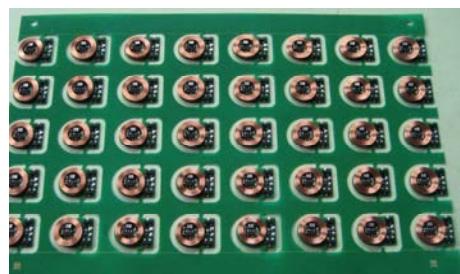
Projet Capteurs en rotation pour
Robo de Canalisation



Projet Fibro Transmission Energie
et Signaux pour Table Carousel



Projet transmission rotative en
Production alimentaire



Projet Transmission d'Energie
pour Implantats



Projet Systeme de couplage pour
Portes de securite



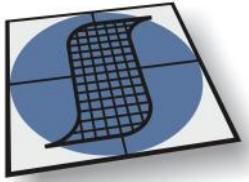
Projet Special Systeme Cammion
Transmission trois canaux pour vehicle



Projet transmission Signaux pour Systemes
innovatives Armes (NATO)

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 – 4mm
- 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 ±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 ±10%
current	max. 200mA
monitor	LED
response time	max. 1 ms

Option with charger

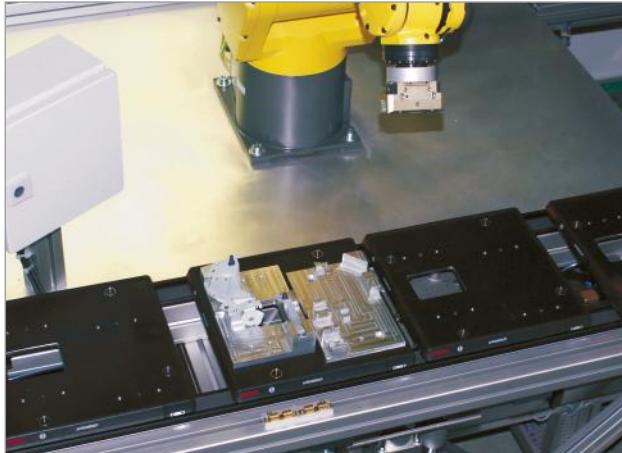
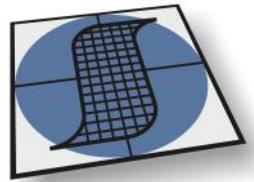
voltage	one cell (4.2V) two cells (8.4V)
current	approx. 200 mA

Mounting

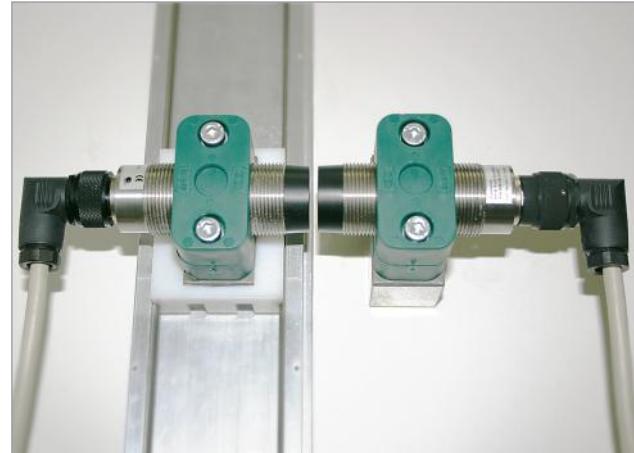
air gap	0 – 4 mm
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Duplex Coupler GAMMA

Palett identification system



example: transport system



working arrangement of coupling devices

Functions

Duplex power/data coupling device for self-sufficient transport systems.

Power transmission automatically starts when both inductors are located inside the defined interval. Control and transmission status are indicated by LEDs in mobile and stationary unit.

Integrated electronic components control both power supply and processing of data input/output.

Applications

- identification of palettes in transport systems
- placement and completion of assembly carrier frames
- detection of cargo on conveyors
- logging of process steps

Features

- plug and play
- status LED
- actuator/sensor supply 4.8W/24V
- max. air gap 4mm
- IP Code 67 as standard; IP 68 available on request
- short-circuit-proof
- integrated overvoltage protection
- integrated reverse-polarity protection
- 9 digital outputs p-switching and 8 digital inputs each on both stationary and mobile unit 0V/24V (SPS compatible)
- dead time ≤ 20ms
- plug connection 19-pole industry type 423/723

Technical Data

Dimensions

length w.o. conn.	80 mm (3.2")
outer thread	M 30 x 1.5

Stationary unit

voltage	24V DC ±10%
current	<500 mA
digital outputs	9
digital inputs	8

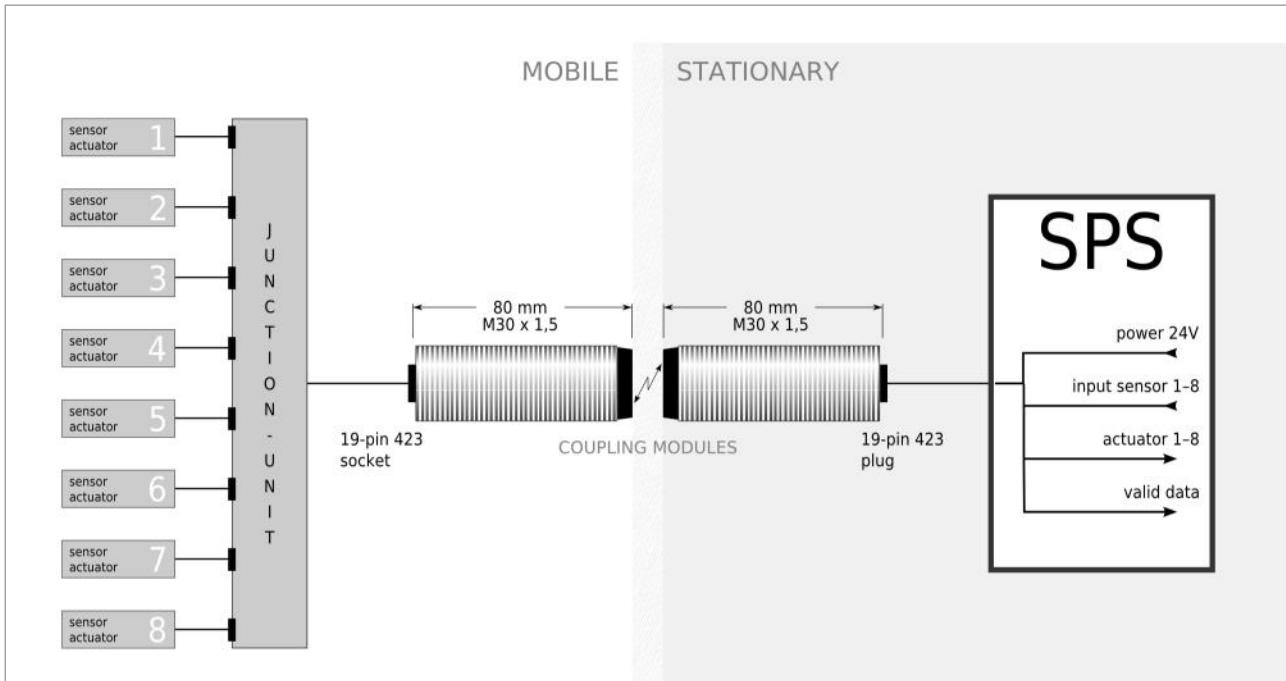
Mobile unit

voltage	24V DC ±10%
current	max. 200 mA
digital outputs	9
digital inputs	8

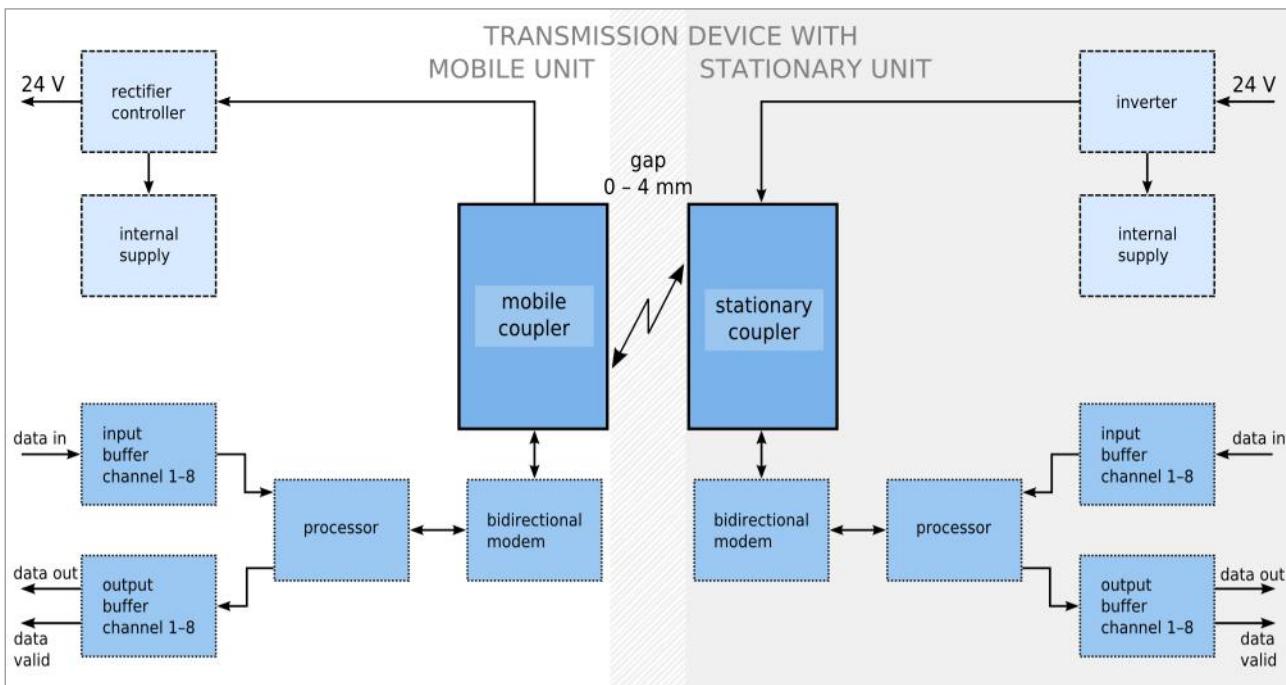
Connection

stationary unit	423 male (19-pole type)
mobile unit	423 female (19-pole type)

Application example



Block diagram



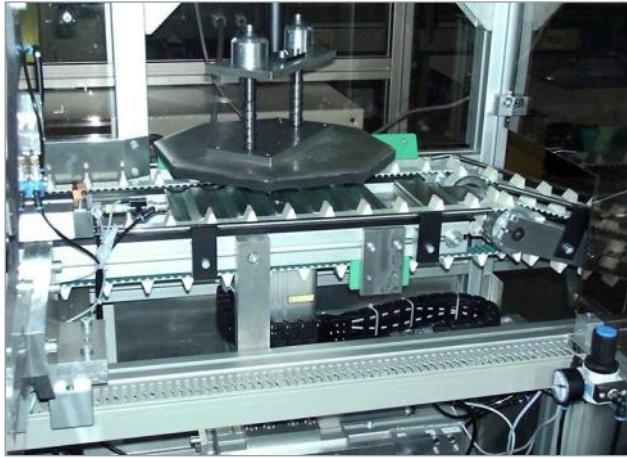
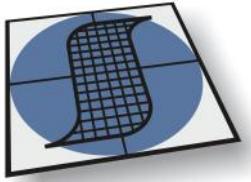
Contact



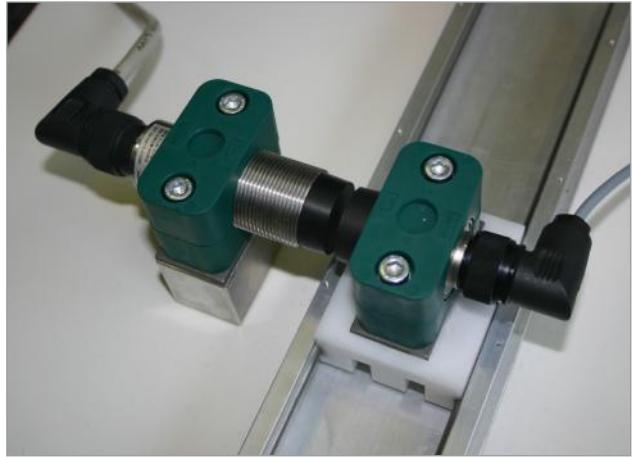
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Analog Coupler BETA

Wireless transmission system for analog data and power



application example: packaging machine



working arrangement of coupling device

Functions

Wireless transmission system for analog data and power.

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 both power supply and processing of data input/output.

Technical Data

Stationary unit

length w.o. conn.	80 mm
outer thread	M 30 x 1,5
connector	7-pin male plug type 423/723

voltage supply	24V DC ±10%
current	max. 500mA
analog output channels	4/2/1 (optionally)
resolution	12 bit
channel output voltage	0 – 10V

Mobile unit

length w.o. conn.	65 mm
outer thread	M 30 x 1,5
connector	7-pin female socket type 423/723

voltage	24V DC ±10%
current	max. 200mA
analog input channels	4/2/1 (optionally)
resolution	12 bit
channel input range	0 – 10V
monitor	LED
sampling rate	2 kspS (1 channel model) 1 kspS (2 channel model) 0,5 kspS (4 channel model)

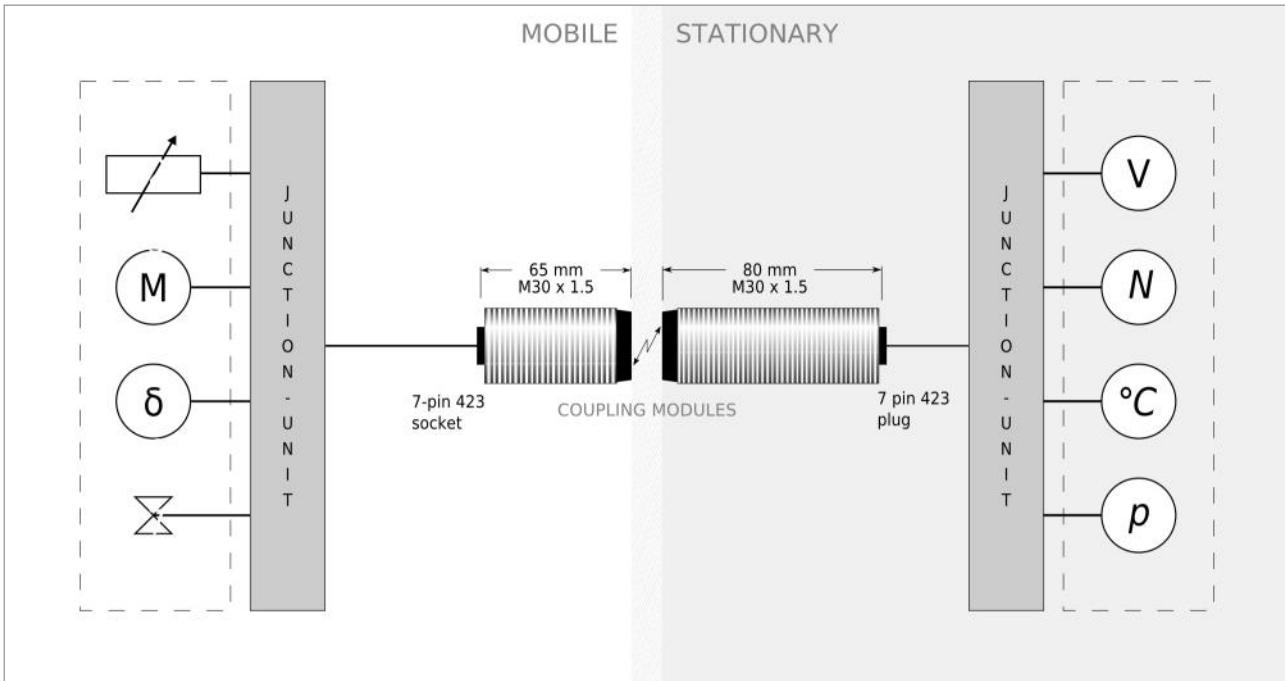
Mounting

air gap	0 – 4 mm
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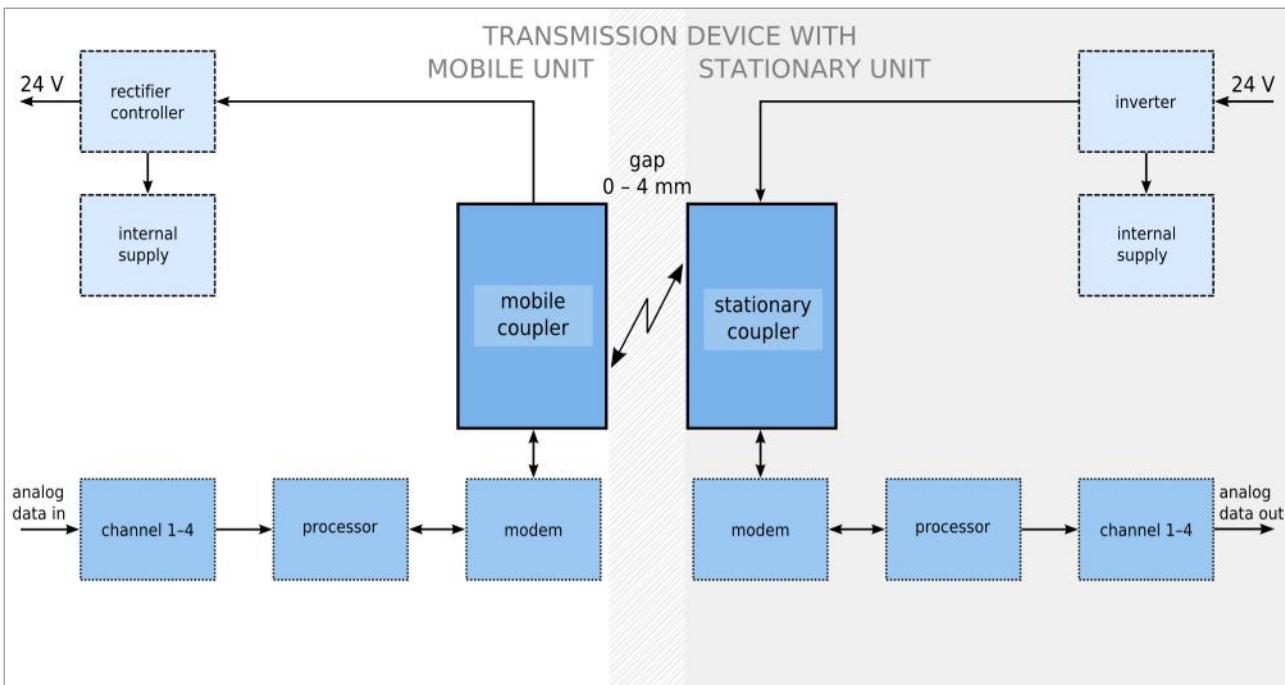
Features

- „Plug and Play“
- status LED
- mobile sensors supply 4.8W/24V
- air gap 0 – 4mm
- short-circuit-proof
- resolution 12 bit
- integrated surge voltage protection
- integrated reverse-polarity protection
- max 4 analog transmission channels
- dead time approx.1 ms
- IP Code 67 as standard; IP 68 available on request
- plug connection 7-pole industry type 423/723

Application example



Block diagram



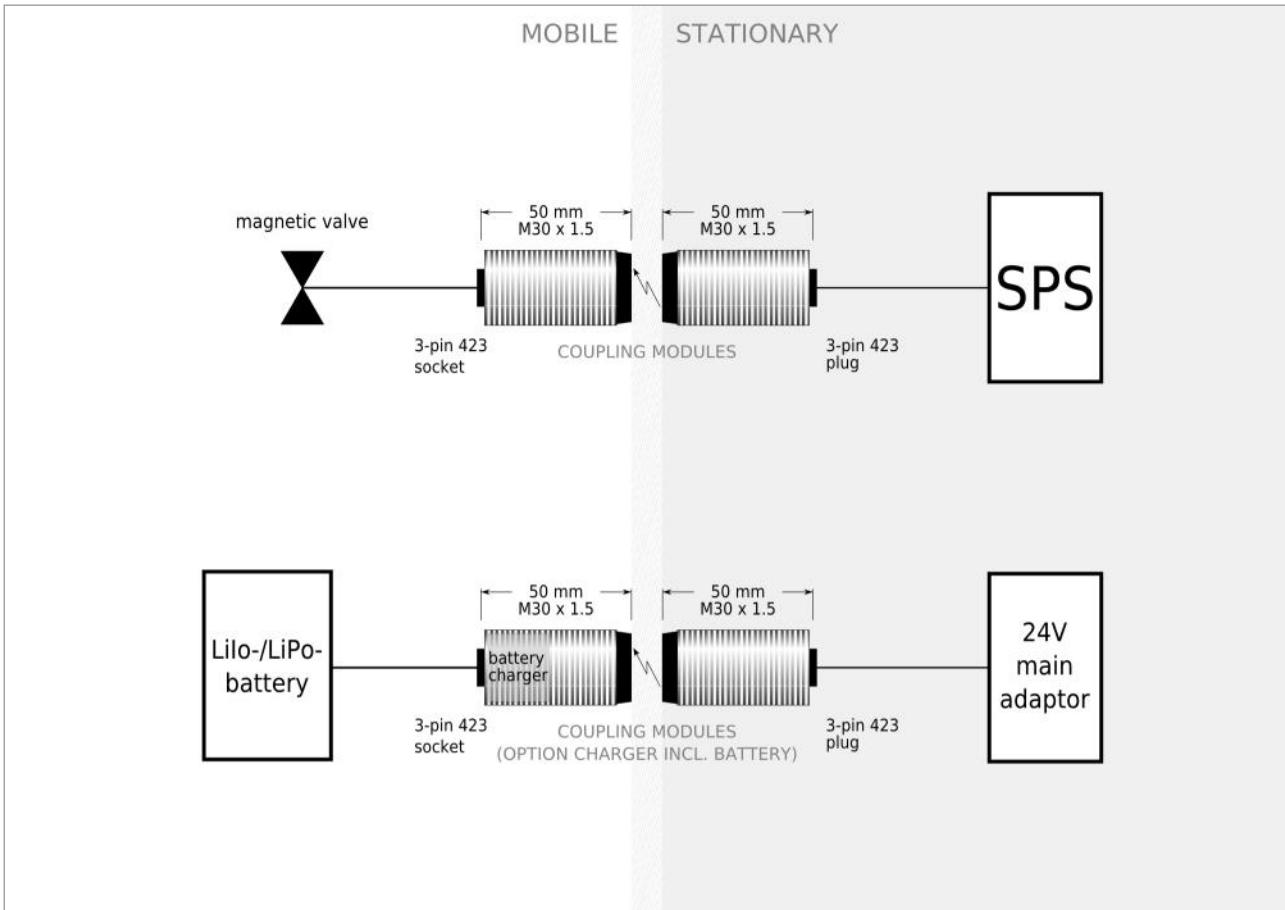
Models

Description	Order number
Stationary unit 1 channel	VDC-B-S-C1
Stationary unit 2 channel	VDC-B-S-C2
Stationary unit 4 channel	VDC-B-S-C4
Mobile unit 1 channel	VDC-B-M-C1
Mobile unit 2 channel	VDC-B-M-C2
Mobile unit 4 channel	VDC-B-M-C4

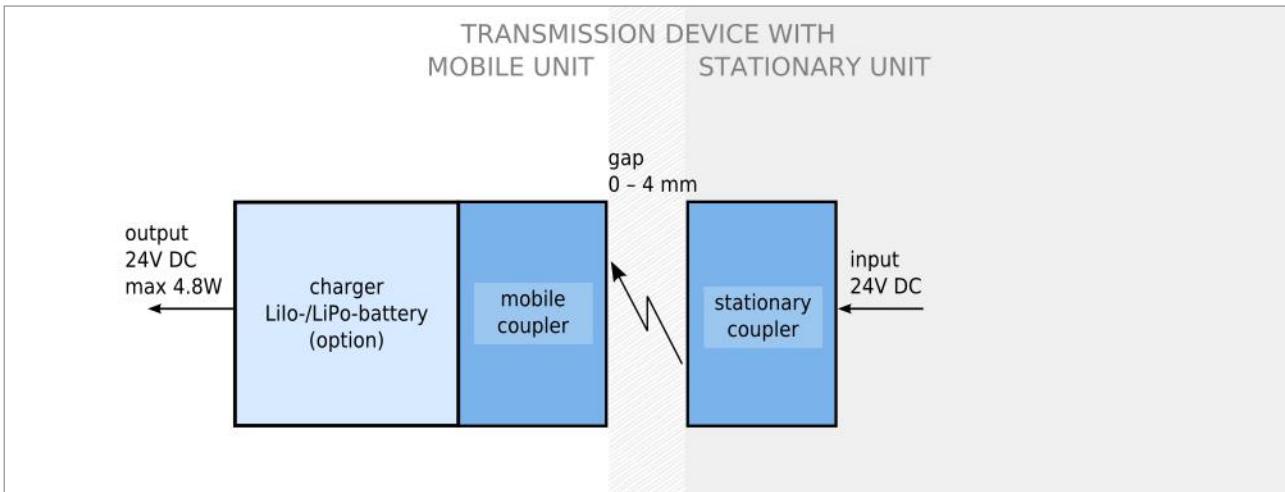


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Application example



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



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