Battery-free wireless pushbuttons and switches
The Schlegel transmitter modules enable the implementation of battery-free radio transmission of a pushbutton signal, particularly in the building and industrial automation, automotive industry and others. The required energy is provided by an electrodynamic power generator using the energy of the key travel (energy harvesting).
The module complies with the R & TTE-EU Directive on wireless transmission equipment.
The transmitter module is licensed under

Green. Smart. Wireless.
enocean®

Battery-free Wireless Modules

Contact blocks DFA...

MADE IN GERMANY

SCHLEGEL ELEKTROKONTAKT

Illustration	Description	Type

IP00
6 mm

Battery-free radio contact block (868.3 MHz)
for pushbuttons and switches with 16mm bayonet

- no power supply necessary
- no additional wiring - based on EnOcean protocol
- easy programming of the receiver
- combinable with pushbuttons and 2-position key and selector switches
- operating temperature: -25°C ... 65°C

suitable pushbuttons and switches:

Colour: green **DFA16**

IP00
6 mm

Battery-free radio contact block (868.3 MHz)
for pushbuttons and switches with 22mm bayonet

- no power supply necessary
- no additional wiring - based on EnOcean protocol
- easy programming of the receiver
- combinable with pushbuttons and 2-position key and selector switches
- operating temperature: -25°C ... 65°C

suitable pushbuttons and switches:

Colour: green **DFA22**

IP00
6 mm

Battery-free radio contact block (868.3 MHz)
for 3-position selector/key switches
with 22 mm bayonet

- no power supply necessary - no additional wiring
- based on EnOcean protocol
- easy programming of the receiver
- combinable with 3-position key and selector switches
- operating temperature: -25°C ... 65°C

suitable pushbuttons and switches

Colour green **DFD22**

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Contact blocks DFA...

Illustration	Description	Type

Accessories

1-channel wireless receiver 8V - 24V for flush mounting

- operating voltage: 8V-24V DC
- no. of channels (relay outputs): 1 (potential-free)
- no. of transmitters: 35
- max. switching current 12V/24V DC: 8 A
- load specifications acc. to EN 60669-2-1: max. 2000 W, at filament lamp load
- rated switching capacity per contact: 16A/250V AC
- standby loss: 0.3W - 0.9W
- ambient temperature at mounting location: -20°C...+50°C
- relative humidity: annual average value <75%
- operating cycles: 1000/h
- life at rated load, cos phi =1: 100.000 switching cycles
- or filament lamp 500W at 100/h
- IP protection: enclosure/connections: IP30/IP20
- switching functions: momentary or latching; optionally with release delay
- connectivity technology: screw-type 4mm²
- mounting: flush mounting
- dimensions: 45mm long, 45mm wide, 33mm deep
- repeater function can be activated as required

S_FSR61_8-24VUC

1-channel wireless receiver 230V for flush mounting

- operating voltage: 230V AC 50 Hz
- no. of channels (relay outputs): 1 (potential-free)
- no. of transmitters: 35
- max. switching current 12V/24V DC: 8 A
- load specifications acc. to EN 60669-2-1: max. 2000 W, at filament lamp load
- rated switching capacity per contact: 16A/250V AC
- standby loss: 0.3W - 0.9W
- ambient temperature at mounting location: -20°C...+50°C
- relative humidity: annual average value <75%
- operating cycles: 1000/h
- life at rated load, cos phi =1: 100.000 switching cycles
- or filament lamp 500W at 100/h
- IP protection: enclosure/connections: IP30/IP20
- switching functions: momentary or latching; optionally with release delay
- connectivity technology: screw-type 4mm²
- mounting: flush mounting
- dimensions: 45mm long, 45mm wide, 33mm deep
- repeater function can be activated as required

S_FSR61_230V

Contact blocks DFA...

MADE IN GERMANY

SCHLEGEL® ELEKTROKONTAKT

Illustration	Description	Type

Wireless antenna module - expandable radio receiver

- antenna included
- power supply: 230V AC 50HZ
- operating voltage: 12V DC 1A (integrated switching power supply)
- number of channels (relay outputs): max. 128
- protocol: EnOcean 868.3 MHz
- mounting: DIN rail EN 60715 TH35
- dimensions: 36mm wide, 58mm deep
- IP protection: enclosure/connections: IP50/IP 20
- ambient temperature at mounting location: -20°C...+50°C
- storage temperature: -25°C up to +70°C
- relative humidity: annual average value <75%

The S_FAM14 is a receiver with integrated switching power supply. The RS485 bus actuators (S_FSR14-2x) are not included in delivery. At a load exceeding 50% of the rated capacity of 12 W, a ventilation clearance of half of module must be maintained on the left side by using the spacer S_DS14.

S_FAM14

RS485 bus actuator

- up to 118 wireless transmitters per channel - rotary switch for teaching-in the transmitters
- simultaneous latching and momentary function possible with different transmitters
- LED signalling to assist teaching-in procedure
- no. of channels (relay outputs): 2 (potential-free)
- no. of receive channels: 120
- max. switching current: 12V/24V DC (per channel): 8 A
- load specifications acc. to EN 60669-2-1: max. 2000 W, at filament lamp load
- rated switching capacity per contact: 16A/250V AC
- standby loss: 0.05W-0.5W
- ambient temperature at mounting location: -20°C...+50°C
- relative humidity: annual average value <75%
- life at rated load, cos phi =1: 100.000 switching cycles
- filament lamp 500W at 100/h
- IP protection: enclosure/connections: IP50/IP20
- switching functions: momentary/latching - optionally with release delay
- connectivity technology: screw-type 6mm²
- mounting: DIN rail EN 60715 TH35
- dimensions: 18mm wide, 58mm deep

suitable RS485 bus actuator for S_FAM14, jumpers for connection are included

S_FSR14-2x

Wireless repeater level 1/2

increases the radio transmission range considerably

- connection via jumper to the RS485 bus or directly with 12V power supply
- power supply: 12V DC
- standby loss: 0.6W
- repeater functions: level 1 / level 2
- protocol: EnOcean 868.3 MHz
- mounting: DIN rail EN 60715 TH35
- dimensions: 18mm wide, 58mm deep
- ambient temperature at mounting location: -20°C...+50°C
- relative humidity: annual average value <75%

suitable accessory: 12V switching power supply S_FSNT12V

S_FRP14

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Contact blocks DFA...

Illustration	Description	Type
	**12V switching power supply unit for DIN rail mounting** - input voltage: 230V (-20% bis +10%) - output voltage: 12V DC - residual ripple: +-1% (100mV) - rated capacity: 12W - efficiency: 83% - standby loss: 0.2W - protection class: II - inrush current: 18A/230V - overvoltage protection: 140-170% - temporary overload protection: 160-200% - IP protection: IP20 - mounting: DIN rail EN 60715 TH35 - dimensions: 18mm wide, 58mm deep - operating temperature: -10/+50°C - switchable in parallel, number: 2 Ideal for power supply of S_FRP14. At a load exceeding 50 % of the rated capacity, and always if there are adjacent switching power suppy units from 12W rated capacity and if there are dimmers, a ventilation clearance of half module must be maintained on both sides by using the spacers S_DS14.	**S_FSNT12V**
	**External antenna with magnet base** 2.5 m feed line with SMA connector	**S_758-910**
	**Spacer** 1/2 modular spacing = 9mm in order to produce and maintain a ventilation clearance in case of very warm modular devices, as e.g. switching power supplies	**S_DS14**