



WIS transmitter secondary (RX)

# **Features**

- Wireless transmission of power and data
- Transmission distance up to 7 mm
- 2 channels for transfer of switching signals
- 12 W tramission power

# **Description**

The WIS secondary transmitter enables switching signals to be transmitted and power to be taken in and made available wirelessly in connection with the WIS primary transmitter. Flexibility in terms of rotation, inclination, angle, and orientation allows for a wide range of applications. A typical application is power and signal transmission for sensors.

# **Technical Data**

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Installation	non-flush
Transfor distance	0 7 mm

Transfer direction 2 signale from secondary side to primary side; power from primary side to secondary side

Time delay before availability 160 ms

Input 2 / digital inputs Number/Type Input type high-active

Input signal high level: 8 ... 36 V; low level: -1 ... 5 V -1 ... 36 V, reverse polarity protected Input voltage

< 4.5 mA per input Input current 500 Hz

Signal frequency Output

Number/Type 1 / voltage output Output voltage  $24 V \pm 5 \%$ 

Transmission power continous output power (max. 7 mm distance) 12 W Short-circuit protection/overload short circuit protection, over temperature protection ≤ 480 mV

Residual ripple Ambient conditions

Ambient temperature -20 ... 55 °C (-4 ... 131 °F) Storage temperature -20 ... 100 °C (-4 ... 212 °F)

**Mechanical specifications** 

Connection type  $L = 300 \text{ mm} \pm 50 \text{ mm}$  cable with Female connector , 4-pin

Housing material brass, nickel-plated LCP Sensing face

Degree of protection **IP67** Installation screw mounting

Mass 150 g

**General information** 

The mounting conditions are described in an extra document. Note

See on product page in the internet.

Compliance with standards and directives

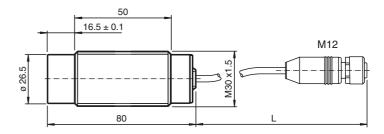
Directive conformity

EMC Directive 89/336/EEC acc. to IEC 61000-4-2, acc. to IEC 61000-4-2

Approvals and certificates

CCC approval CCC approval / marking not required for products rated ≤36 V

### **Dimensions**



# **Pinout**



# **Electrical Connection**

M12 single-ended female cordset, 4-pin		
Pin	Signal	
1	+24 VDC	
2	Input 2	
3	GND	
4	Input 1	

# System description

### System overview, intended use

The WIS transmitter system always consists of a WIS primary transmitter and a WIS secondary transmitter. The system is used to transmit power and switching signals (PNP). To ensure that the transmitter system operates securely and reliably, only primary and secondary transmitters provided by the manufacturer may be combined. The sensors are connected to the WIS secondary transmitter using additional connection technology such as a Y-splitter V1S-T-V1.



#### Time delay before availability

Once the voltage supply has been switched on, the WIS transmitter system has a time delay before availability for transferring both power and data.

A distinction is drawn between 2 scenarios:

- 1) The WIS primary transmitter and WIS secondary transmitter are parallel with one another. The WIS primary transmitter is switched on. It takes 160 ms until the WIS secondary transmitter is ready and has sent current signals to the WIS primary transmitter.
- 2) The WIS primary transmitter is switched on and the secondary WIS transmitter enters transmitting mode. It takes 25 ms until the WIS secondary transmitter is ready and has sent current signals to the WIS primary transmitter.

The time delay before availability of the connected sensors must still be considered in this instance.

# Reverse polarity protection of the voltage supply

If the polarity of the connected voltage supply is incorrect, the WIS primary transmitter switches itself off.

# Short-circuit protection for voltage output and output data signals

The WIS transmitter system switches off the voltage and data if the voltage outputs of the WIS secondary transmitter or the data outputs of the WIS primary transmitter overload or short-circuit.

### Reverse polarity protection for data inputs

The data inputs of the WIS transmitter system are reverse polarity protected.

# **Excess temperature protection**

The WIS transmitter system switches off in the event of excess temperature.

## Foreign object protection

If a metal object becomes present between the WIS primary and secondary transmitters, the WIS transmitter system switches itself off.

#### Dynamic coupling

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The transmitters in the WIS transmitter system are not paired to one another and are freely interchangeable.

#### **Accessories**

Y-splitter, M12 connector on M12 socket/socket

