



Superior Clamping and Gripping



Product Information

Wireless sensor system RSS

Wireless. Flexible. Reliable.

Wireless sensor System RSS

The RSS transmission system allows wireless transmission of two sensor signals.

Field of application

For applications where it is not possible or very difficult to connect sensors via cables.

Advantages – Your benefits

Signal transmission via radio for monitoring without cable break, and the use in applications, where cable routing is not possible

Teach-in mode for connecting transmitter and receiver to commission the overall system quickly and easily

Monitoring the connection (Watchdog) and displaying the reception strengths for highest process safety and optimal system control

Long service life battery in the transmitter module ensures maintenance-free operation for more than 5 years

Integrated battery monitoring for early diagnosis of maintenance



Options and special information

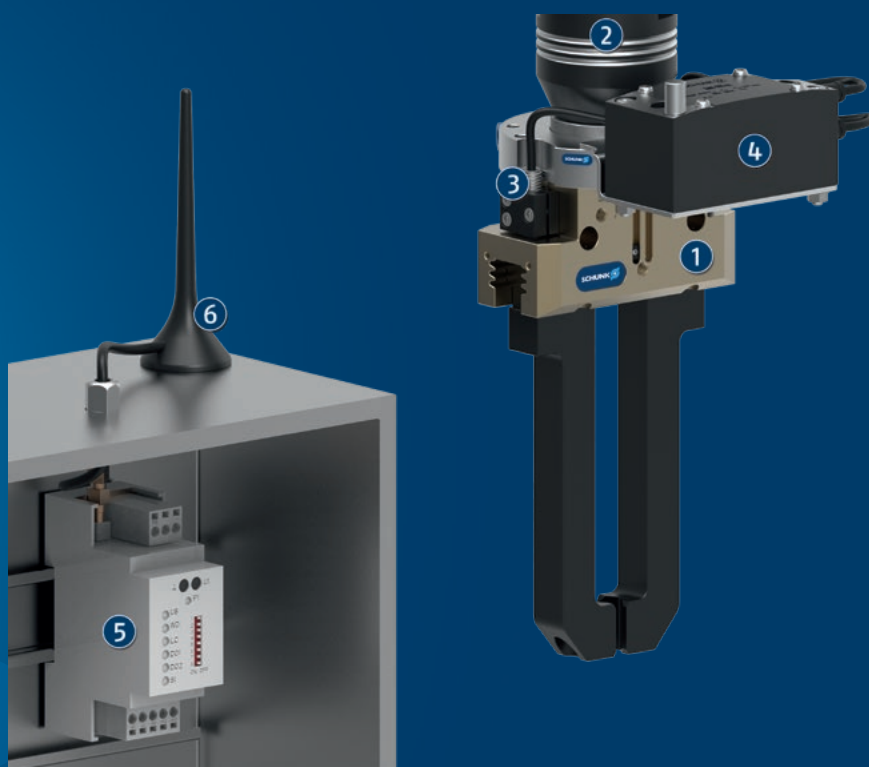
Use of radio sensor system RSS: Receiver RSS-R1 can receive the signals of transmitter RSS-T2. One receiver and one antenna are required per transmitter.

Use of the RSS radio sensor system in the USA and Canada: In the USA and Canada, operating the radio sensor system is only permitted with FCC/IC approval. This FCC/IC approval is available for the RSS-T2-US/CA transmitter and the RSS-R1 receiver. Operating the RSS-T2 variant is not permitted in the USA and Canada.

Lifespan of the batteries integrated in the transmitter: The information concerning the typical lifespan of the battery was determined based on the following assumptions: 1-shift operation, one signal transmission per second, watchdog set to 1 second.

Spark energy and its propagation: The spread of the radio signal can be affected by many factors. You can find important information on this in the operating manual. The strength of the radio signal can be read off from the receiver via an LED.

Application example



① Gripper with shank interface
GSW-B with PGN-plus and attach-
ment kit AS-RMS 80

② TENDO E compact Toolholder

③ RMS 80 Reed switch

④ RSS-T2 Transmitter

⑤ RSS-R1 Receiver

⑥ RSS-R-A Antenna with magnetic
base

SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



RMS 22 Reed switch



RMS 80 Reed switch



KA connection cable



2-finger parallel
gripper PGN-plus

① For more information on these products can be found on the following product pages or at schunk.com.

RSS T2

Wireless sensor system

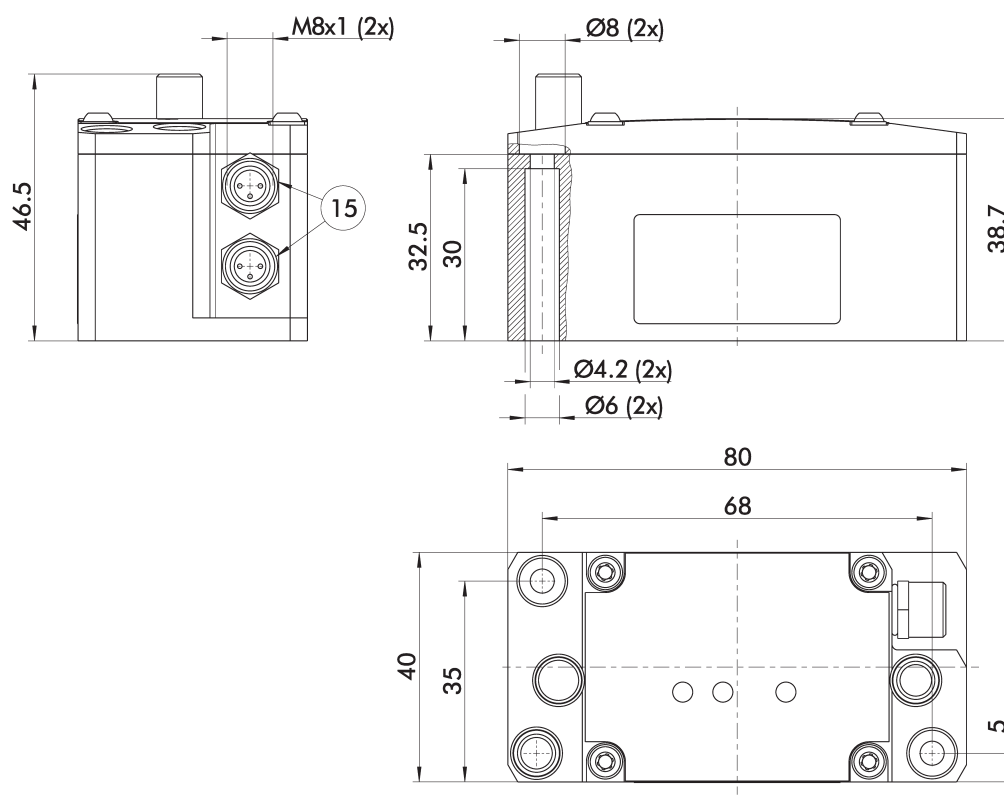


Technical data

Description		RSS-T2	RSS-T2-US/CA
ID		0377715	0377717
General operating data			
System function		Transmitter	Transmitter
Transmitter / receiver frequency	[Hz]	868.3	868.3
Protocol		EnOcean Standard	EnOcean Standard
Interval of the watchdog signal	[s]	1	10
Number of sensor connections		2	2
Min./max. ambient temperature	[°C]	0/50	0/50
Electrical operating data			
Power supply		Battery, integrated	Battery, integrated
Typical lifespan of the battery	[Jahre]	5	5
Mechanical operating data			
Sensor connection		M8 socket, 3-pin	M8 socket, 3-pin
Housing material		Plastic	Plastic
IP protection class		67	67
Weight	[kg]	0.16	0.16
Conformity Approvals			
CE		yes	yes
FCC / IC approval		no	yes

- ① The watchdog signal is a signal for monitoring the transmission pack between transmitter and receiver. If the receiver does not receive a signal for longer than the watchdog time set there, this can be read off an integrated LED and queried via a signal output.

Main view



The drawing shows the transmitter of the transmission system.

15 Socket

RSS R1

Wireless sensor system

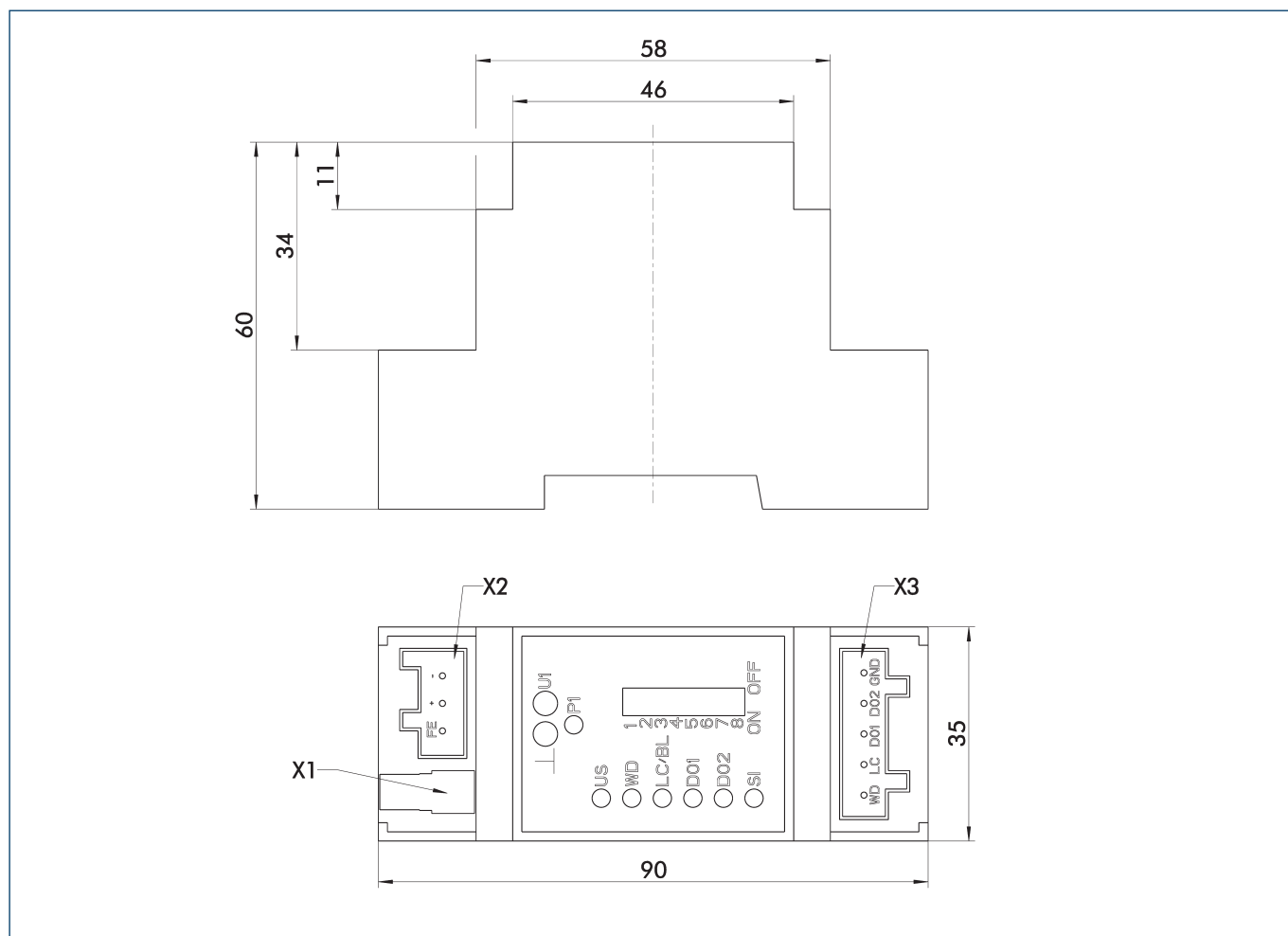


Technical data

Description		RSS-R1
ID		0377700
General operating data		
System function		Receiver
Transmitter / receiver frequency	[Hz]	868.3
Protocol		EnOcean Standard
Number of switching outputs		2
Number of antenna connections		1
Min./max. ambient temperature	[°C]	0/50
Electrical operating data		
Power supply		DC
Nominal voltage	[V]	25
Min. voltage	[V]	10
Max. voltage	[V]	30
Max. current on contact per channel	[mA]	500
Mechanical operating data		
Antenna connection		SMA port
Housing material		Plastic
IP protection class		20
Mounting		Top-hat rail
Conformity Approvals		
CE		yes
FCC / IC approval		yes

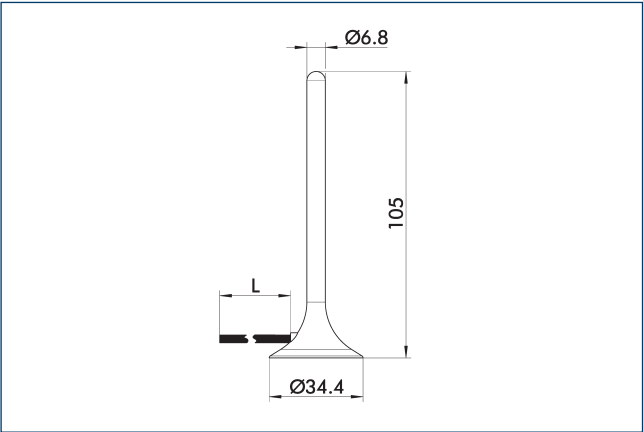
- ① The watchdog signal is a signal for monitoring the transmission pack between transmitter and receiver. If the receiver does not receive a signal for longer than the watchdog time set there, this can be read off an integrated LED and queried via a signal output.

Main view



The drawing shows the receiver of the transmission system.

RSS-R-A Antenna with magnetic base



The RSS-R-A antenna can be connected directly via the connection cable with SMA connector to the RSS-R1 receiver. The integrated magnetic base allows simple assembly of the antenna on many metallic surfaces.

Description	ID	Cable length L
		[m]
Wireless sensor system		
RSS-R-A	0377730	2

ⓘ Please observe the min. bending radius of the connection cable. This amounts to 15 mm.



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