

# AIRSWITCH017

## PROGRAMMING INSTRUCTIONS

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### PNEUMATIC SWITCHES - RADIOSWITCH

#### Wireless Pneumatic Switch

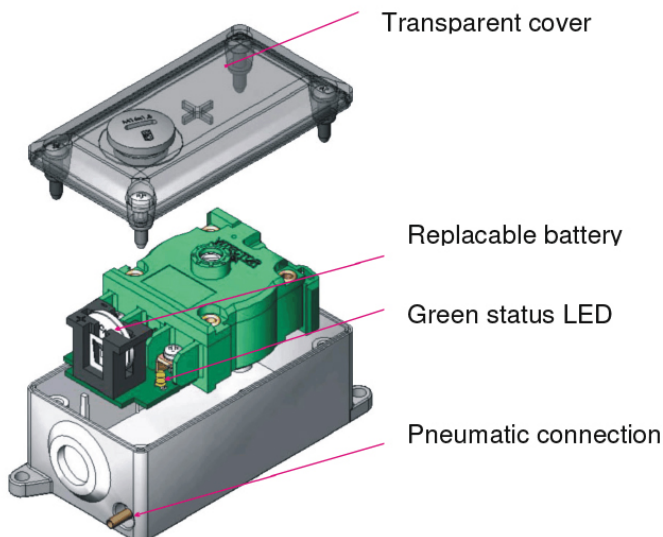
RADIOSWITCH made by VITECTOR is a pneumatic switch that sends a radio signal to the receiving unit upon activation. The small radio transmitter unit and the pneumatic switch are packaged within the DW 3S-200 case while the receiver is built into a NEMA4 case. For easy connection to a control unit it is equipped with a NCC (normally closed contact) or NOC (normally open contact) relay.



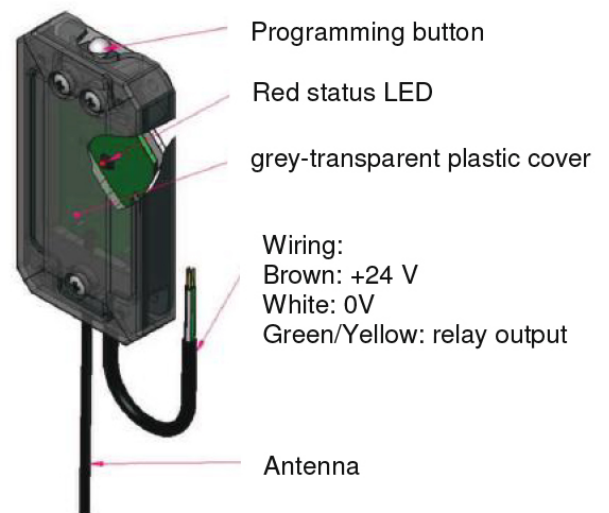
Article Name	Article No.	Remark
DW TR-200	10012830-2	Transmitter Unit with Airwave Switch
RSW-R 1502, 433MHZ NCC	10012813-2	Receiver Unit, NCC Relay Output
RSW-R 1502, 433MHZ NOC	10013858-2	Receiver Unit, NOC Relay Output

#### Diagrams

##### Transmitter



##### Receiver



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#### Transmitter General Data

Frequency band	433 MHz, modulated frequency
Coding	Fixed codes, 65,000 different codes available
Protection class	NEMA 4
Temperature range	-5 °F to +140 °F
Transmitting range	Up to 330 ft
Battery	Lithium CR2032, 3,0 V, 220 mAh, replaceable
Battery Lifetime	up to 75,000 activations, max. 4 years
Status LED	Green

#### Receiver General Data

Receiving channels	1
Response time	Minimum 35 ms (without radio interference)
Protection class	NEMA 4
Case material	ABS transparent grey, PA6 GF30, TPE
Dimensions	2.95 x 1.57 x 0.51 inch without wiring
Connection	4-core connection wire LIYY 4x0,14 <sup>2</sup> Length 3.28 ft Cable head 1.97 inch dismantled, twisted and tinned isolation stripped 0.2 inch Brown: +24V( AC/DC), White: 0V, Green/Yellow: relay output
Current drawn	max. 30 mA
Signal/ Relay output	NCC (normally closed) NOC (normally open)
Status OK	Closed Open
Status Crash/ Error	Open Closed
Status LED	red

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#### Factory Default Setting

Transmitter with fixed code, receiver not programmed, upon switching on the receiver the status LED is permanently red, receiver has to be programmed before first use. When receiving a signal from any compatible transmitter, the status LED flashes briefly before going back to red permanently.

Relay opened – no door/ gate function

#### Programming

Press programming button for 3 seconds, LED flashes slowly. Now activate the DW switch within 5 minutes. Upon receiving the DW signal, the receiver LED rapidly flashes 8 times while the code is being saved. After that, the LED turns off.

#### Normal Operation

Upon activation of its pneumatic switch, the transmitter generates the code signal and sends it to the receiver 20 times. The receiver's minimum response time is approx. 35 ms. if a signal cannot be transmitted due to interference problems, the

remaining attempts provide a certain level of reliability. After approx. 700 ms transmission is terminated and the transmitter's LED flashes once.

Upon receiving the transmitted signal, the receiver's LED lights up for 4 seconds. Simultaneously the clearance signal (relay output) is being activated for 4 seconds

#### Delete Programming or Re-Program

Pressing the programming button for 3 seconds deletes the currently saved code from memory and the receiver can be re-programmed as described above.

#### Low Battery

If the battery voltage drops below a certain value, the transmitter's LED flashes twice (instead of once) and battery replacement should be considered. Additionally, if the battery is not replaced the receiver's LED will flash from now on. If the voltage drops below a critical level, the receiver LED will flash slower indicating that the relay gate is no longer being set.


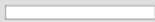






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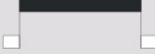


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#### Status LED Conditions

Transmitter LED		
Activity	LED	Description
Off	 	idle
Flashes once	 	activation signal is being transmitted. System OK
Flashes twice	 	Activation signal is being transmitted with reduced power, battery is low. <b>Replace battery!</b>
Flashes 3 x	 	Activation signal is being transmitted with heavily reduced power, battery is nearly empty, no relay activation <b>Replace battery immediately!</b>

Receiver LED		
Activity	LED	Description
Off	 	idle
Flashing steadily	 	Ready for being programmed
Rapidly flashes 8 x	 	Transmitter code is being saved
Flashes once	 	Relay gate is being set. System OK
Flashes permanently	 	Relay gate is being set. Transmitter battery low, consider replacing