

A2W – Wireless Pushbutton Switch

Self-power generation by the pushing force eliminates battery management (re-charging and recycling)

Reception confirmation LED

Highly reliable communications - Sub-GHz-band that is less susceptible to obstacles and WIFI radio interferences

Long-range transmission - Transmission distance: approx. 100 m without obstacles & 30 to 50 m even with obstacles

Communication distance not depending on transmitter position thanks to special transmitter antenna design.



A2W - Product Highlights

Successful reception is confirmed by LED

Reception confirmation LED	Status
Green	Reception success (received field strength "Strong")
Yellow	Reception success (received field strength "Weak")
Red	Reception failure
No lit	Slave button fault (no signal transmission from Slave button)



Detailed wireless communication status can be monitored.

High diffraction and high penetration

High diffraction and high penetration

Sub-GHz band (900 MHz)



The radio wave wraps obstacles around and reaches behind them.

Quasi-microwave band (1 GHz to 3 GHz)



The radio wave goes straight without diffraction, being blocked by obstacles.

Sub-GHz band for reduced interference and better signal propagation to difficult-to-reach areas.

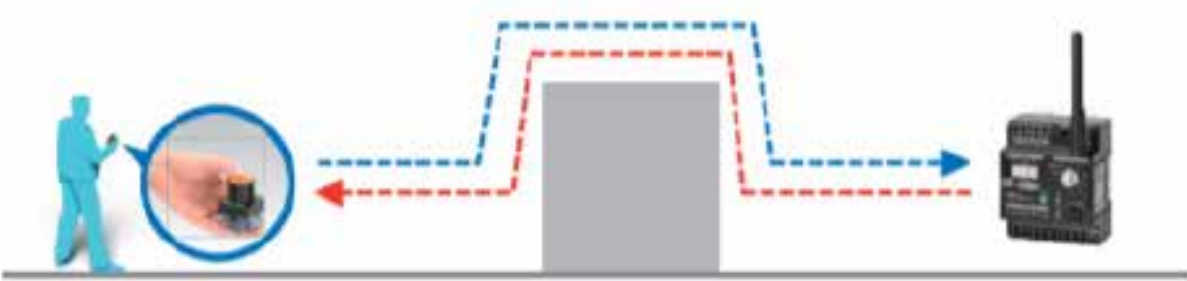
Highly reliable communications - Long-range transmission

Transmission distance: approx. 100 m without obstacles

* Also without influence of noise

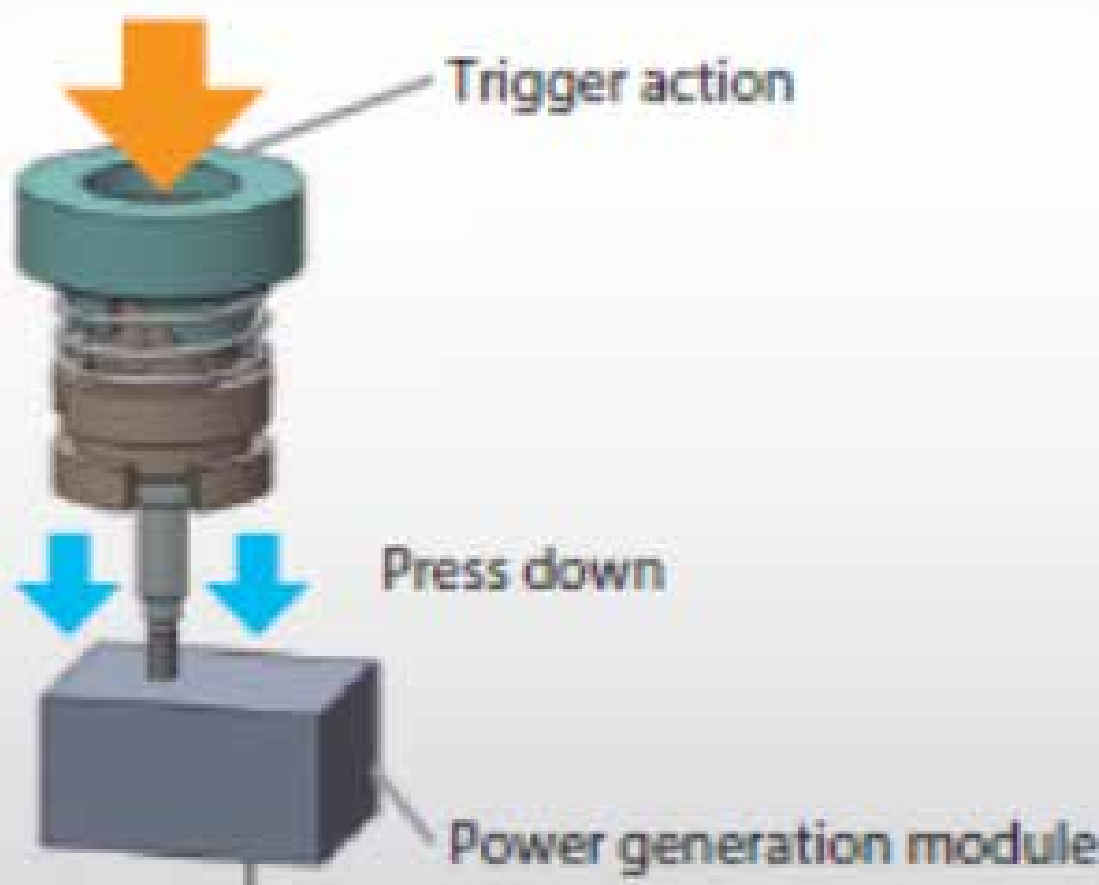


Transmission distance: approx. 30 to 50 m even with obstacles



Error display in Ladder, ST, and FB. Intuitive GUI with autocomplete feature.

Batteryless due to self-power generation



Self-power generation by the pushing force eliminates battery management.

A2W - Application Areas

Automotive



Auxiliary command signals management on machines/plants wirelessly:

- Stock out parts
- Call supervisor
- Starting AGV after loading parts

Food & commodity



Conveying lines can have bottling traffic jams.

- The conveyor stops, and the operator has to clear the jam and restart the machine
- Quicker restarts give better productivity

Building automation



Open and close automatic door from meters away, enabling more convenient and safer passage of forklifts and walking personnel

A2W - Wireless Pushbutton Switch

Wireless switch using sub-GHz band combines wireless reliability and ease-of-use in consideration of work environments

Additional features for push-buttons

- Two types: full guard/mushroom
- Different colors available: Red, green, Yellow, Blue, white and black.
- N°of operations: 1,000,000
- IP rating: IP65

Additional features for master units

- Supply voltage: 24VDC
- N° of outputs: 9
- NPN/PNP output models
- USB port
- High-sensitivity magnetic based external antenna available
- Visualization of signal quality and usage environments using PC tools

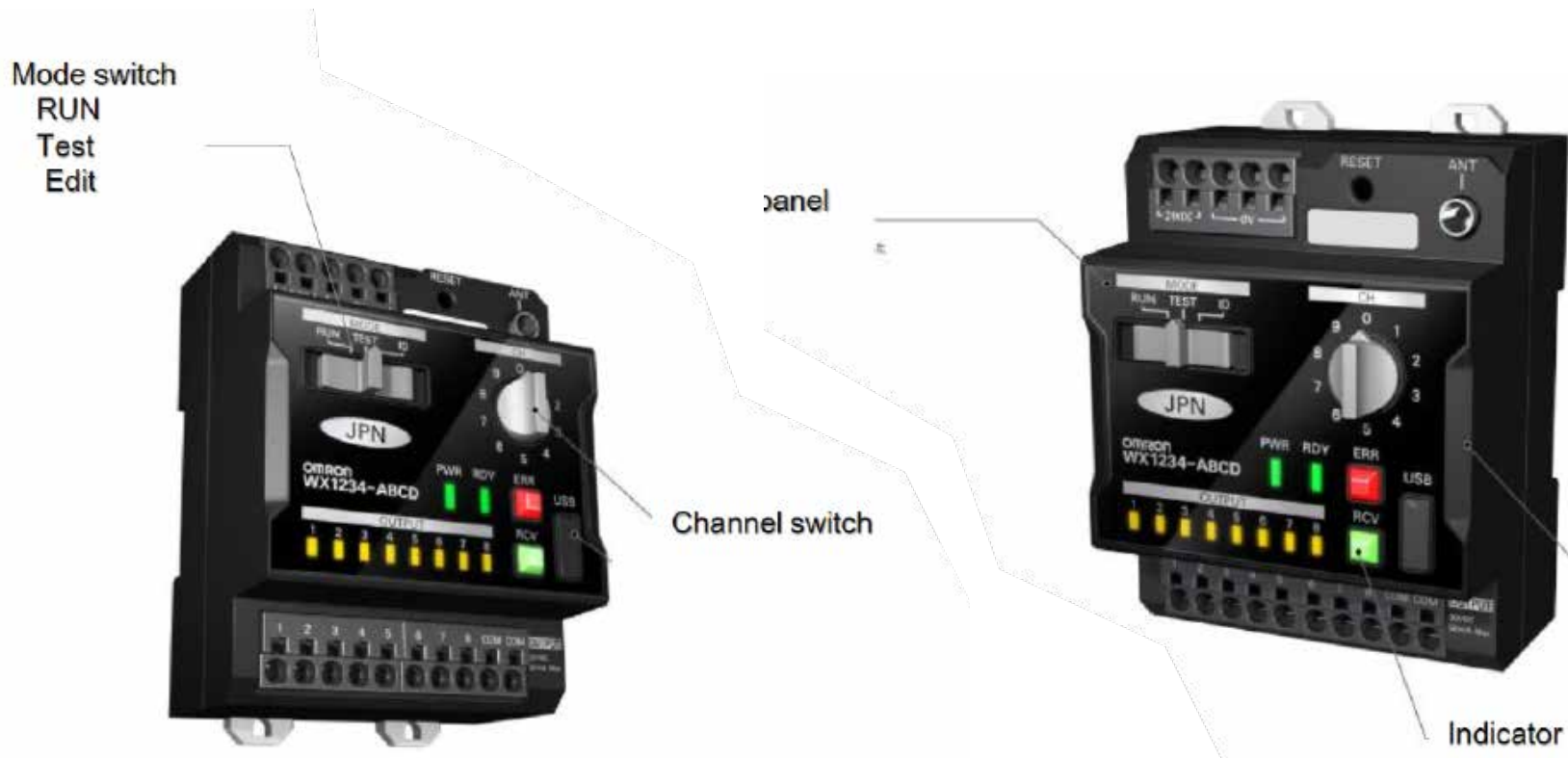


Push buttons



Button type	Mushroom, Full guard					
Button color						
Flange color						
Degree of protection	IP65					

Master unit



Accessories

