

# Wireless Pushbutton Switches

A2W



- A wireless call button without a battery
- Confirm reception with LED

# Innovative Switch That Connects People and Machines Wirelessly

Manufacturing sites continue to require more versatile and flexible production systems due to frequent changeover of low volume production.

#### OMRON wireless switches offer:

- Production lines without layout restrictions
- · Simple addition to existing facilities
- Installation on moving parts





### A Reliable Wireless Switch

#### Patent pending

#### Reception Confirmation LED

#### Successful reception is confirmed by LED.

Detailed wireless communication status can be monitored.

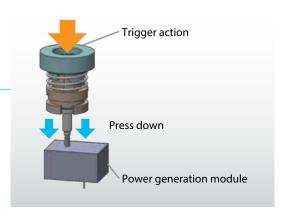
Reception confirmation LED	Status			
Green	Reception success (received field strength "Strong")			
Yellow	Reception success (received field strength "Weak")			
Red	Reception failure			
Not Lit	Pushbutton fault (no signal transmission from Pushbutton)			

#### Patent pending

### No batteries required due to Self-generating Power

# Actuation force power eliminates battery management.

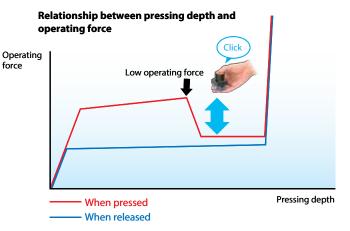
Trigger action operation drives the power generation module and generates stable electricity.



#### **IP65** Protection

\* Only for the main unit of pushbutton and optional antenna.

Tactile feedback even with gloves on





#### Highly reliable communications

#### 922.5MHz frequency band is less susceptible to interference than GHz frequencies

#### **High propagation**

#### Sub-GHz band (922.5 MHz)



Radio waves differ around obstacles.

#### Quasi-microwave band (1 GHz to 3 GHz)



Radio waves are blocked by obstacles.

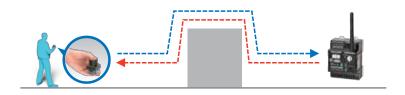
#### **Long-range transmission**

Transmission distance: approx. 100 m without obstacles

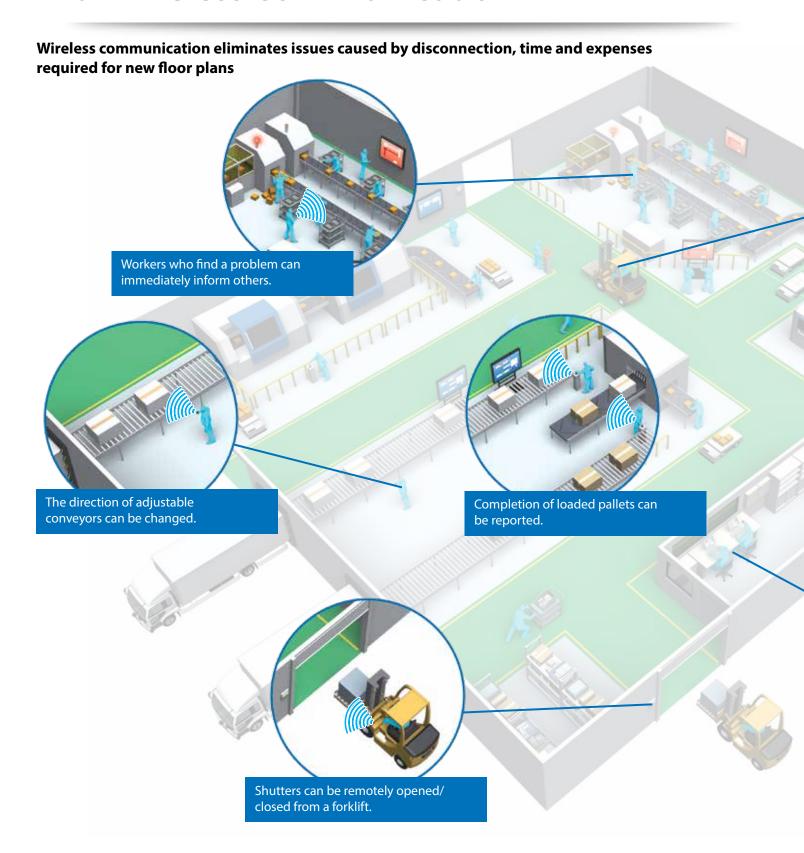
\* Also without influence of noise



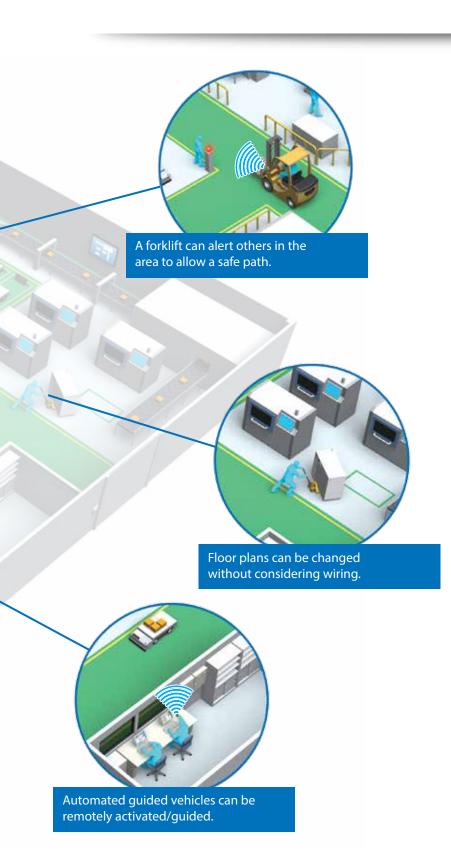
Transmission distance: approx. 30 to 50 m even with obstacles



# A wide range of applications are available with wireless communication

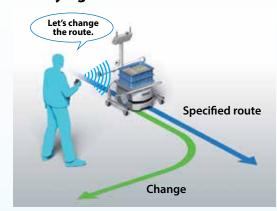






# Unprecedented usage methods can create more value

# Route change of an automatic conveying robot



## Transmission of simple information, such as a failure count





Note: Cannot be used for emergency stop.



#### Main Specifications

#### [Pushbutton]

Button type	Mushroom, Full guard					
Button color	Green	Yellow	White	Blue	Black	Red
Flange color	Yellow	Black	Red			
Degree of protection	IP65					

#### [Receiver]

Rated voltage		24 VDC	
Allowable voltage range		21.6 to 26.4 VDC	
Output circuit shared voltage		30 VDC max.	
Maximum load current		50 mA per point	
Output logic		One-shot (500 ms)	
Number of connected pushbuttons		8 max.	
Accessories	Extension antenna (cable length 2.5 m), Pushbutton strap		

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