

# Antuator

Smart Automation  
Solution for  
Pergola Systems



**ANTUATOR**  
[www.antuator.com](http://www.antuator.com)

# Smart drive and precise control for premium pergola experiences

## A complete pergola control system

We provide a complete automation solution for modern pergola systems, integrating high-performance linear actuators with dedicated control units to deliver smooth motion, precise control, and long-term reliability for premium outdoor spaces.

At the heart of the system is the **ANT-38P linear actuator**, specifically engineered for pergola applications. Its slim and compact design, with a maximum tube diameter of only **38 mm**, allows seamless integration into space-limited pergola structures while preserving clean aesthetics and design flexibility.

With a maximum load capacity of up to **2500N**, and customizable stroke and force options, the ANT-38P adapts easily to various pergola structures and opening mechanisms, ensuring stable and controlled operation in every application.

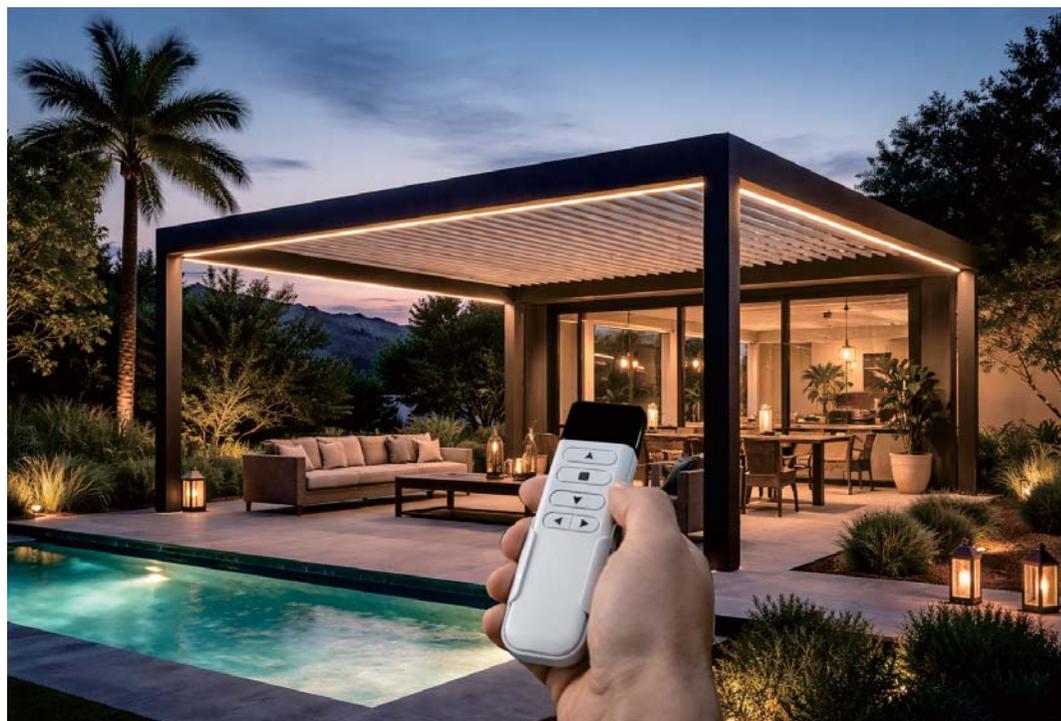
The solution is completed by a **dedicated pergola control unit**, designed for reliable actuator management and easy system integration.

It simplifies installation and commissioning, enabling safe, smooth, and precise opening and closing of pergola systems.

Engineered for outdoor environments, the complete solution features **IP67M / IP69K protection levels**.

Key components are manufactured from anodized aluminum and **316 stainless steel**, ensuring excellent resistance to rain, dust, and harsh weather conditions.

Operating quietly at **below 56 dB**, the system guarantees smooth and silent movement, enhancing user comfort and creating a calm, refined outdoor living environment.



# ANT-38P

High-performance linear actuator engineered for precise and durable pergola automation



ANT-38P is created specially for the bioclimatic pergola, where the water proof, elegant design, trouble free, compact size are crucial.

With max load capacity 2500N, customized stroke length and forces, the ANT-38P can be used for different types and sizes of the bioclimatic pergolas.

ANT-38P can withstand very harsh environments because of its IP67M, IP69K protection design and special materials used to fit the pergola market.

Maintenance-free, Easy Installation, Trouble free are also the main features.

ANT-38P can work smoothly, quietly and precisely to guarantee its excellent performance on world famous brands pergola.

5 years warranty is offered.

## SPECIFICATIONS AND OPTIONS

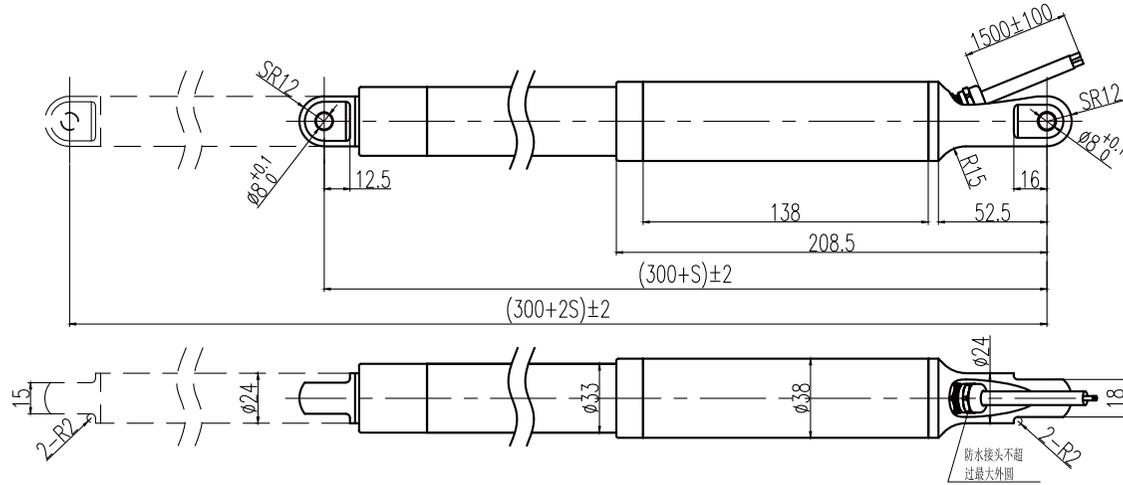
<b>Voltage</b>	12VDC	24VDC	<b>Duty cycle</b>	10%, 2 minutes continuous use followed by 18 minutes in rest
<b>No load current</b>	≤1.2A	≤0.6A	<b>Life time</b>	≥10000 cycles
<b>Load current</b>	≤3.8A	≤1.8A	<b>Working temperature</b>	-20°C ~ 60°C
<b>Max power</b>	50W		<b>Storage temperature</b>	-40°C ~ 70°C
<b>Stroke</b>	20-400mm (stroke can be customized)		<b>Material of lead screw</b>	# 45 steel
<b>Limit switches</b>	Built-in		<b>Material of push rod</b>	SUS316
<b>Installation length(min)</b>	300+S("S" for stroke)		<b>Material of push nut</b>	Engineering plastic
<b>Noise level on load</b>	≤56dB		<b>Standard color</b>	Metal color
<b>Protection class</b>	IP67M/IP69K		<b>Standard cable length</b>	1.5m (cable length can be customized)
<b>Backlash</b>	0.5-1mm		<b>Certification</b>	CE
<b>Options</b> : Over current protection , Hall sensor feedback, Aluminum version, Stainless steel version				

## FORCES AND SPEEDS

Push force	Pull force	Self-locking force	Speed on load	No load speed
600	600	600	10.5	13
800	800	800	7	8.5
1200	1200	1200	4.5	5
1500	1500	1500	4	5
2000	2000	2000	2.8	3.3
2500	2500	2500	2.3	3.3

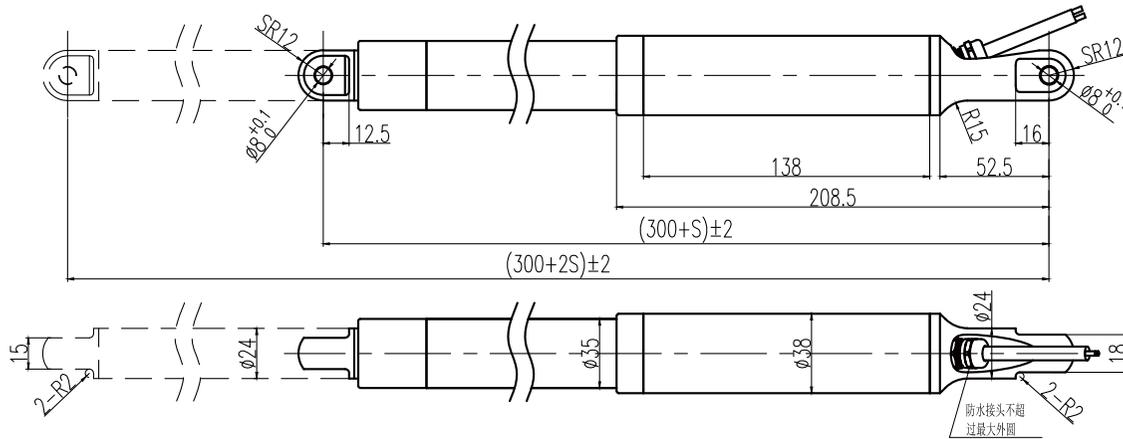
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## DIMENSION



### Aluminum Version (mm)

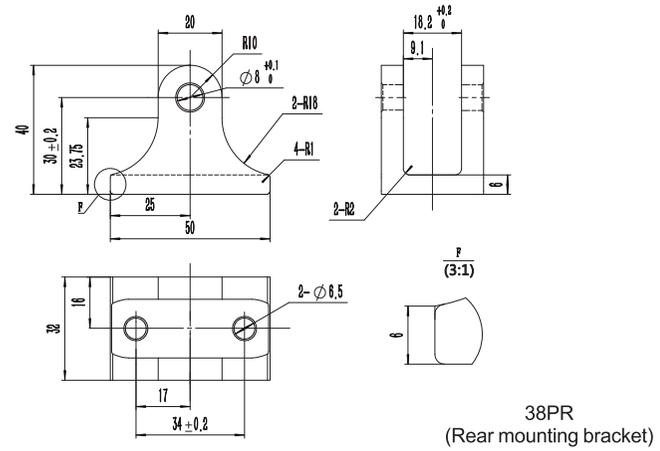
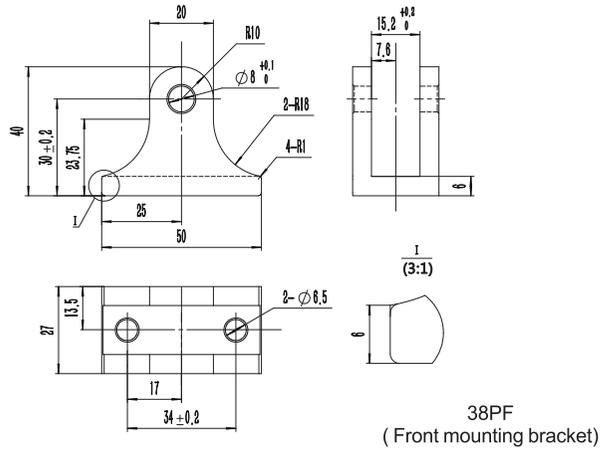
The dimensional tolerance not shown in the drawing can refer to ISO2768-mk



### Stainless Steel Version (mm)

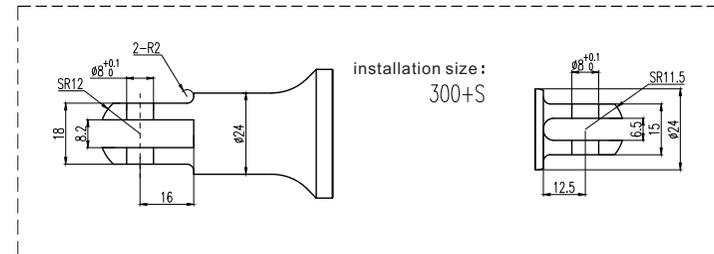
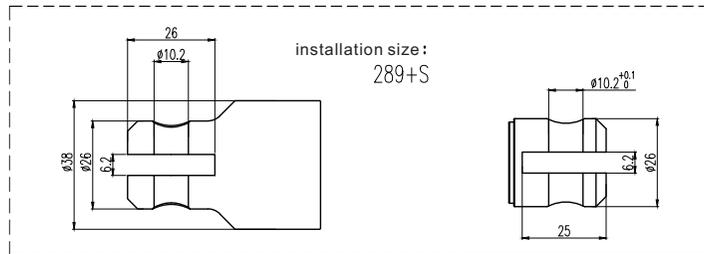
The dimensional tolerance not shown in the drawing can refer to ISO2768-mk

## MOUNTING BRACKETS



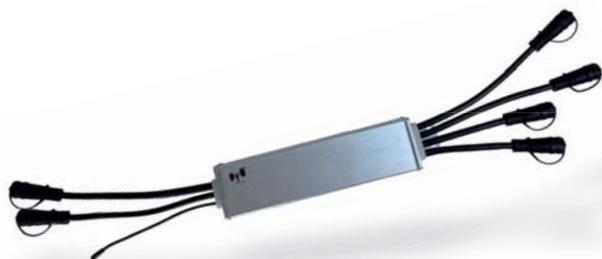
## Rear and front fixtures are optional

- customized front, rear fixture



# ANT-17

Central control unit integrating all pergola components into one reliable automation system



The ANT-17 Controller is a specially designed intelligent control system developed by ANTUATOR for motorized bioclimatic pergolas and other outdoor applications.

It features compact dimensions, high integration, waterproof and dust proof performance, and versatile control options, making it suitable for both residential and commercial outdoor environments.

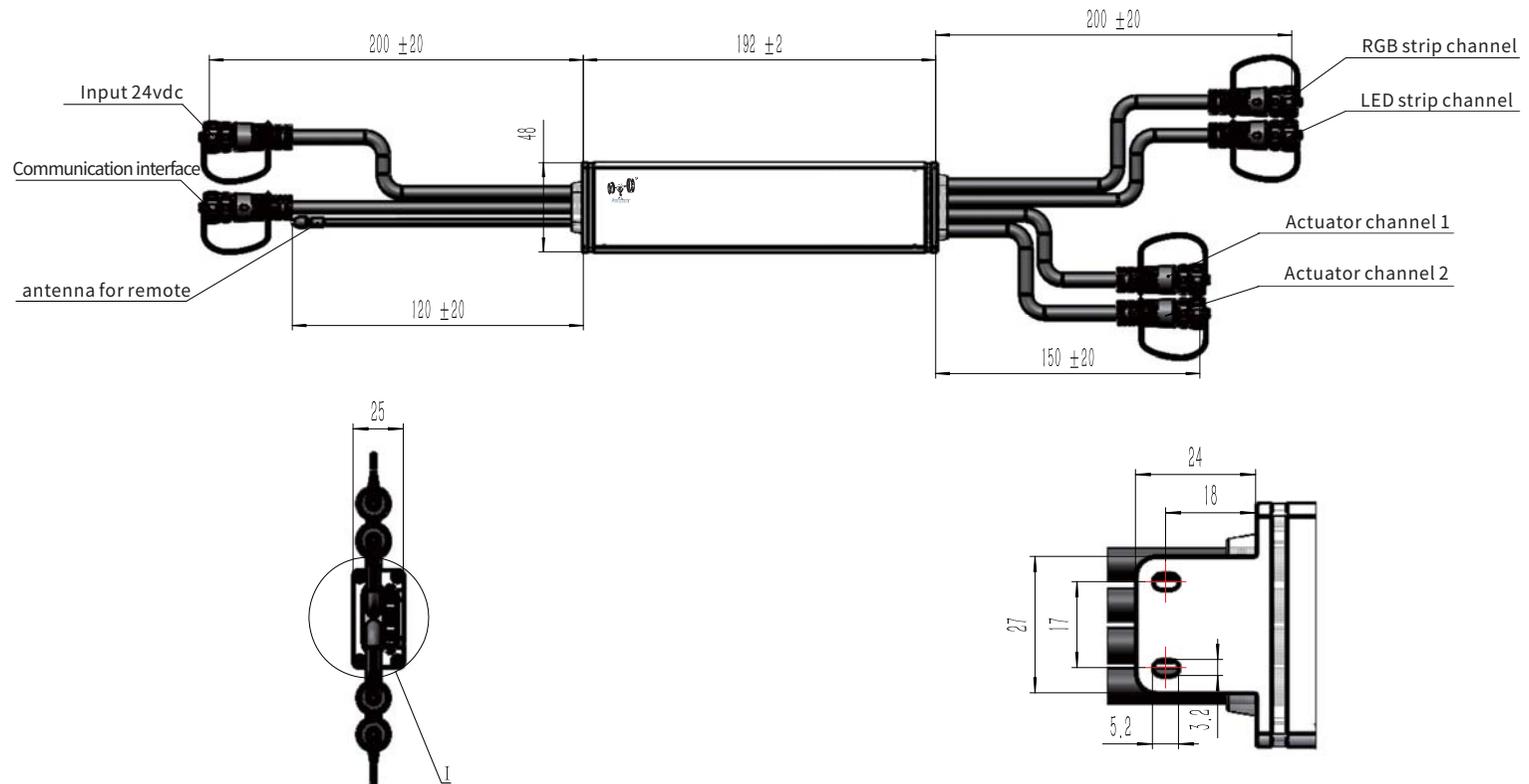
This controller is capable of managing linear actuator drives, LED light strips, and multiple communication protocols such as RF 433 remote control, RS485, offering users convenient and intelligent outdoor automation.

## TECHNICAL SPECIFICATIONS

Item	Specification
Product Model	ANT-17
Size(mm)	48(W) × 28(H) × 192(L)
Housing materials	Aluminum alloy
Input Voltage	24VDC (with reverse polarity protection)
Static operating current	Max 200mA
Drive capability	≤5A*2 channel @ S3 duty cycle(working 2 mins and 18mins rest)
Hall sensor signal detection	Yes
Actuator Output Channels	2 channels (customizable operation logic and direction)
Actuator cable length	≤10m
Synchronization accuracy	+/-5mm at 10000 cycles
Maximum Actuator Power	50 W per channel
LED Light Output Channels	2 channels (each up to 100 W)
Remote control type	433.92M@FSK
Remote control distance	≤20m
Touchscreen communication type	RS485, 11vdc input
User communication interface	RS485,format 9600/8/N/1, protocol MODBUS
Panel switch interface	Switches input
Monitoring Function	Real-time actuator status monitoring and fault alarm
Waterproof Rating	IP65 (optional upgrade to Ip67)
Protection Functions	Overcurrent protection, overload protection
Working Environment	-20°C to +70°C
Operating humidity	75%

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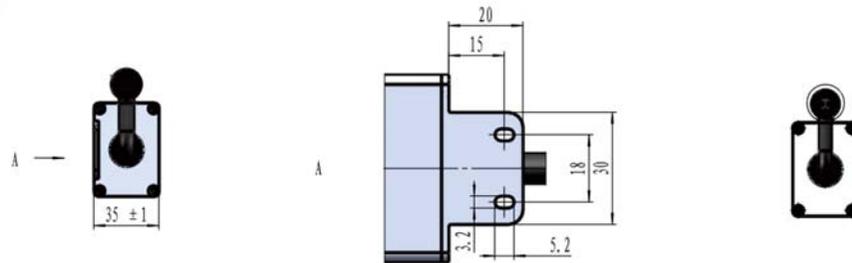
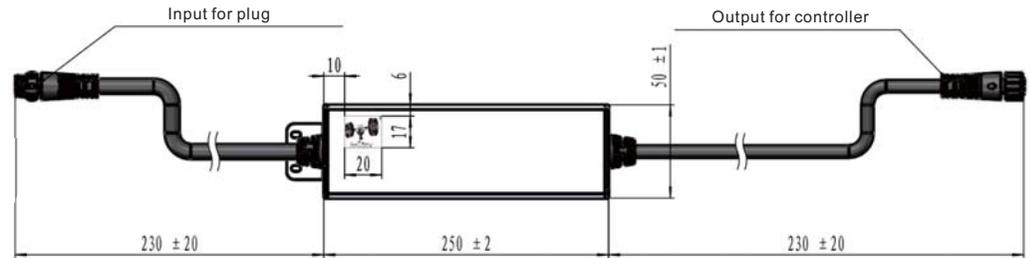
## DIMENSION



# ANT19

AC power supply delivering stable power for pergola control systems

## DIMENSION



Input: 100-240VAC, 50/60HZ, 6A max

Output: 24vdc, 12.5A max

Rated Power: 300W

Working Temperature: -25°C/70°C

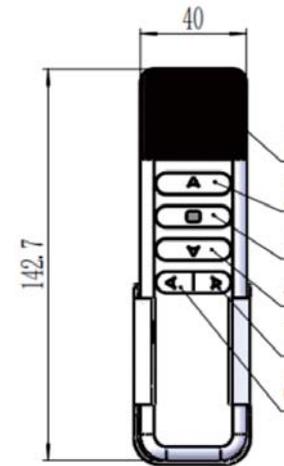
IP grade: IP65

# HS20

Wireless remote enabling smooth  
and precise pergola control



## DIMENSION



1. Screen: will show channel code CH01/CH02/CH03/CH04/CH05
2. “UP” button
3. “STOP” button
4. “DOWN” button
5. Channel switch button from CH01 to Ch05
6. Channel switch button from CH05 to CH01



Antuator® Waterproof Precision, Smart Integration

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Official website link  
dimensional code