

QUARTER TURN ELECTRIC ACTUATOR AVA-S20.54 SMART WIRELESS FAILSAFE ACTUATOR 133in.lbs

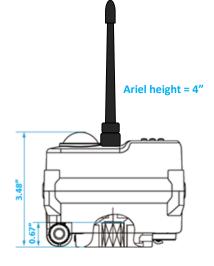


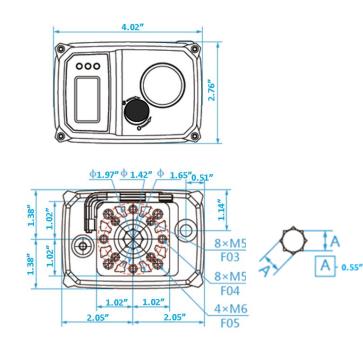
Model	AVA-S20.54 133in.lbs SMART WIRELESS	FAILSAFE ELECTRIC ACTUATOR		
	High voltage	Low voltage		
Rated Voltage	230V AC/DC	24V AC/DC		
Voltage Range	AC 95-265V 50/60Hz, DC 100-300V	AC 15-24V 50/60Hz, DC18-30V		
Consumption	9.6W run, 0.12W hold	15W run, 0.5W hold		
Peak current	35mA (AC230V), 75mA (DC110V) for 5ms	900mA (DC 24V) for 5ms		
Fuse	1A	5A		
Communication mode	RF433/868/915MHz, FSK, LORA, RF Ocean (single control)			
Communication protocol	Modbu	Modbus (option)		
Communication distance	Maxim	Maximum 3km		
Maximum Break Torque	133in.lbs	133in.lbs		
Run & Reseat Torque	133in.lbs	133in.lbs		
Manual operation	Yes, by hexagonal wrench (supplied i	n clip) when no power is being applied		
Run time (90°)	≈ 10 secs	≈ 10 secs		
STANDARD FEATURES:	·			
Operating frequency	Brushless motor with thermal override, continuous rated.	Brushless motor with thermal override, continuous rated.		
Position sensing	Magnetic with digital sensing. No mechanical cams fitted.	Magnetic with digital sensing. No mechanical cams fitted. (±1% Accuracy)		
Maximum angle of rotation	330° ±5° (Factory set 90° ±2°)			
Position indication (visual)	2 colour (red/ yellow) dome for local visual confirmation			
End Position indication	2 x Electronic relay	2 x Electronic relay		
Mounting restriction	None, can be mounted at any angle. Leave room for space	None, can be mounted at any angle. Leave room for space to operate manually, and for electrical connection		
ISO:5211	F03 & F05 (+ F04 which mounts at 45 degrees)	F03 & F05 (+ F04 which mounts at 45 degrees)		
Female drive	0.55" (14mm) octagon x 0.67" (17mm) deep	0.55" (14mm) octagon x 0.67" (17mm) deep		
Ingress protection	IP67, recommend cover provided if exposed to direct rain	IP67, recommend cover provided if exposed to direct rain or sun		
Max media temp	≤ 176°F	≤ 176°F		
Ambient temp	-4°F to +140°F (ABS) -4°F to +176°F (Aluminium)			
Non-operating temp	≤ -40°F to ≥+176°F			
Ambient humidity	5-95% RH non-condensing			
Explosion proof	No, absolutely prohibited. Do not use in hazardous areas			
Shock Resistance	≥300m/S2			
Vibration	10 to 55Hz, 1.5mm double amplitude (product damage me	ost likely if exceeded)		
Noise level	Maximum around 50dB	Maximum around 50dB		
Flame Retardant Level	V0 using the UL94 Test method			
Certification	CE	CE		
Maintenance	Maintenance free			
Cable Entry	Cable gland provides, actuator pre-wired with approx. 20" flying lead			
Housing	Plastic (ABS)			
Weight	With standard ABS housing 1.37lbs (With optional aluminit	um housing 1.81lbs)		



Success results from our continual pursuit of perfection, details therefore subject to change without notice in the interests of product development and improvement.

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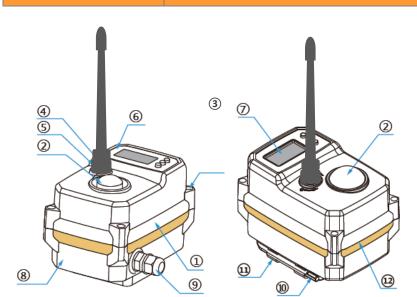




Model	Voltage	Housing	Heater	Comm'n Mode	Comm'n Protocol	Baud rate
AVA- S20.51-	5 AC 110V or	P Plastic (ABS)	0 None	1 RF433 MHz	None None	D Default 9600
520.51-	5 AC 240V	A Aluminium	Η 5W/24kΩ	2 RF868 MHz	MODBUS	Range 1200-19200
	6 AC 24V or			3 RF915 MHz		
	6 DC 24VDC			4 LORA	-	
	Multi-voltage			5 RF Ocean		

MATERIALS

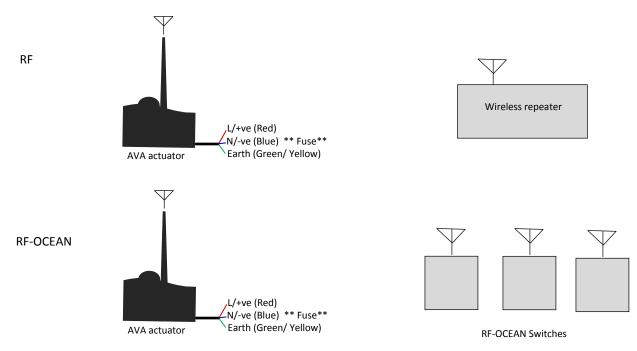
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No	PART	MATERIAL
1	Housing	Aluminium base, ABS cover
2	Indicator	Clear plastic
3	Cover screws	304SS
4	Override drive	304SS
5	Seal	NBR
6	Screen cover	Rubber
7	Screen	OLED
8	ID Label	PVC
9	Connector	Plastic
10	Allen key	Tool steel
11	Allen key clip	ABS
12	Cover seal	NBR



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Several OCEAN Switches could control one actuator, or several actuators could be controlled by one OCEAN switch

LOCAL CONTROLS	AVA-S20.54 133in.lbs SMART WIRELESS FAILSAFE ELECTRIC ACTU	ATOR
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Overview: All AVA smart electric actuators have local controls as standard which combine an OLED screen and 3 positive feel push buttons to create local control and a variety of user friendly adjustments. The bright screen with blue letters on a black background are easy to read, and the use of the push buttons to adjust settings is intuitive. The local controls require power to be applied to the actuator to operate.

Local controls:

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Series: AVA.	M button is used to enter and switch menus.
Command: ON Angle: XX.X%	K2 is used in conjunction with K3 for adjusting values.
	K3 is used for changing settings, navigating menus, exiting and saving.
Pressee refer manual for more parameters Image: Comparison of the second s	OLED Screen with clear blue letters against a black background

Standard local control function options:

MANUAL CONTROL	The AVA smart actuator can be opened and closed using the K2 and K3 buttons
DEAD BAND	Adjusts the accuracy and sensitivity
SPEED CONTROL	The working time can be increased either by setting a step timer (run/stop/run/stop), or continuous running adjusting the PWM
CLOSED POSITION	Small adjustments can easily and quickly be made to the final close position angle (zero adjustment).
REVERSE ACTING	Receiving an open command signal sends the AVA smart actuator to the closed position and vice versa
EXTEND ANGLE	Adjust the open position by adjusting the span. Typically used to set 0-180 degree operation

