

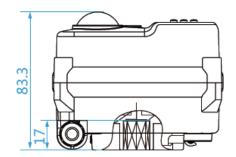
AVA-02C SMART ON-OFF 20Nm

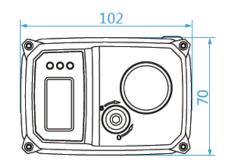


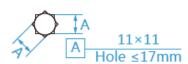
Model	AVA02-C	20Nm MULTI-VOLTAGE SMAR	RT ON-OFF ELECTRIC ACTUATOR				
	High voltage		Low voltage				
Rated Voltage		230V	24V				
Voltage Range	AC 95-265V 50/60Hz, DC 100-300V		AC 18-26V 50/60Hz, DC2 2-32V				
Consumption	9.6W run, 0.12W hold		9.6W run, 0.85W hold				
Peak current	35mA (AC230V), 75mA (DC110V) for 5ms		350mA (DC 24V) for 5ms				
Fuse	1A		2A				
Maximum Break Torque Nm	20		20				
Run & Reseat Torque Nm	15		15				
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied						
Run time	≈ 10 sec		≈ 10 secs				
STANDARD FEATURES:	STANDARD FEATURES:						
Operating frequency	Not continuous, 75% duty cycle but recommended to allow ≥ 1 minute between cycles						
Position indication (visual)	2 colour (red/ yellow) dome for local visual confirmation						
Mounting restriction	None, can be mounted at any angle. Leave room for space to operate manually, and for electrical connection						
End Position indication	2 x Electronic relay						
ISO:5211	F03 & F05 (+ F04 which mounts at 45 degrees)						
Female drive	11mm octagon x 17mm deep						
Ingress protection	IP67, recommend cover provided if exposed to direct rain or sun						
Max media temp	≤80C						
Ambient temp	-20 to +60C (ABS) -20 to +80C (Aluminium)						
Non-operating temp	≤ -40C to ≥80C						
Ambient humidity	5-95% RH non-condensing						
Explosion proof	No, prohibited. Do not use in hazardous areas						
Housing	Aluminium base, plastic (ABS) cover						
Weight	With standard ABS cover 0.62kg (With optional aluminium cover 0.82kg)						

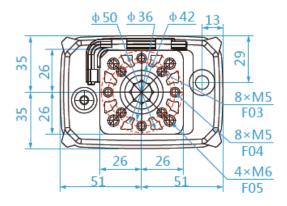








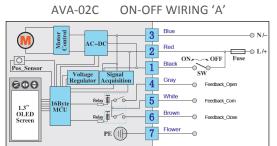




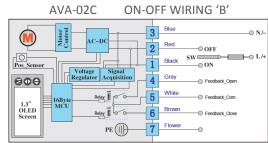
Model	Voltage	Cover	Heater	Control of on-off function	Feedback
AVA-02C-	1 AC 230V or	Plastic (ABS)	None	SPDT. Switchable +ve/ live	Relay auxiliary contacts ¹
	1 AC 110V	Aluminium	H 5W/24kΩ	SPST. Make to open, break to close	'R' above with alarm output ²
	2 AC 24V or			Failsafe, fails closed on loss of power	1 & 2 Requires external power supplied
	2 DC 24V				to actuator for relay to function.
	Multi-voltage				

WIRING DIAGRAMS

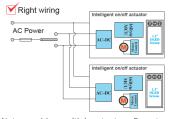


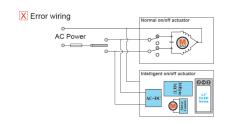


Control type 'S' Single throw switch



Control type 'D' Double throw switch

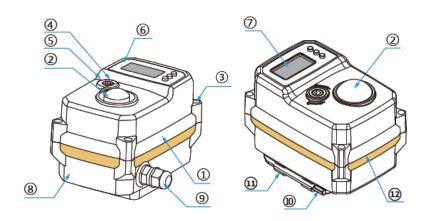




 $Note on wiring \ multiple \ actuators. \ Do \ not \ control \ AVA \ basic \ and \ Smart \ actuators \ in \ parallel \ using \ the \ same \ contactor.$







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

LOCAL CONTROLS

AVA-02C 20Nm SMART ON-OFF ELECTRIC ACTUATOR



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:



M button is used to enter and switch menus.

K2 is used in conjunction with K3 for adjusting values.

K3 is used for changing settings, navigating menus, exiting and saving.

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 PW M

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

3 POSITIONS Sets the 3rd positions

