

Main Features: -

- 250Nm Break 200Nm Run Torque
- Basic Series On Off, & Hi Speed
- Smart Series On Off, Modulating,
- F07-10 x 22mm ISO 5211 IP67 Housing
- New 200Nm series coming Q3-Q4 2020

Approvals & Certification Available:

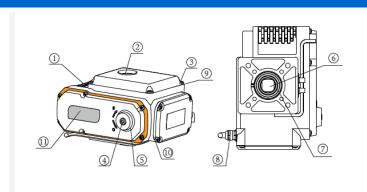




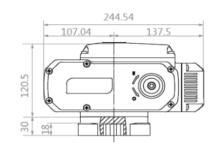
SERIES: AVA-200

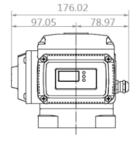


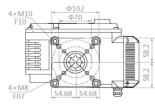
No	PART	MATERIALS
1	ACTUATOR HOUSING	ALUMINIUM
2	INDICATOR	TRANSPARENT AS
3	SCREWS IN COVER	304
4	MANUAL OVERRIDE SHAFT	304
5	MANUAL OVERRIDE SEAL	NBR
6	LABEL	PVC
8	MANUAL OVERRIDE WRENCH	STEEL
9	WEATHERPROOF CABLE CONNECTOR	NYLON
10	COVER SEAL	NBR



DIMENSIONS









UNIQUE SMART ACTUATOR SERIES INTRODUCING SMART SCREEN AND MENU SYSTEM



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



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AVA is a feature rich, compact actuator series. Whilst small in size, the actuator offers all the features you would want from your electric actuator, IP67 housing, heater and position feedback!



SERIES: AVA-200

BASIC ON OFF AND FAILSAFE ACTUATOR SERIES TECHNICAL DATA

Model: AVA 200 - 200Nm BASIC ON-OFF ACTUATOR									
Specification	AC 1ph 50/60Hz				DC				
Rated Voltage	AC230V	AC110V	AC24V	DC24V	DC12V				
Voltage Range	AC190-250V	AC90-130V	N/A	DC 22-28V	N/A				
Consumption B200	150W@ running	150W@ running	N/A	120w running @	N/A				
	0.0W hold	0.0W hold		1.5w holding					
Peak current B200	0.7A @ 5ms	0.7A @ 5ms	N/A	6A@ 5ms	N/A				
Fuse B200	5A	10A	N/A	10A	N/A				
Maximum Break Torque Nm	250Nm			250Nm	N/A				
Run & Reseat Torque Nm	200Nm			20	200Nm				
Manual operation	Manual operation Yes, by hexagonal wrench (supplied in clip) when no power is being applied								
Run time B200	About 30 Seconds			About 30 Seconds	About 30 Seconds				
STANDARD FEATURES:									
Operating frequency	Not continuous, allow ≥ 1 minute between cycles								
Position confirmation Mechanically driven dome style visual 2 colour indicator									
Mounting restriction	Mounting restriction None, can be mounted at any angle. Leave room for space to operate manually, and for electrical connection				connection				
End Position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.								
ISO:5211	F07-10								
Working Angle	Factory set at 90° ±2°, maximum angle of rotation 360°								
Female drive	22mm x 18mm deep								
Ingress protection	IP67								
Max media temp ≤ 80C									
Ambient temp	-20 to +80C (Aluminium) Non-operating temp ; ≤ -40C to ≥80C								
Cable Length	Supplied without cable, 200 series is supplied with wiring box with conduit entry. Wiring via terminal strip within box.								
Ambient humidity 5-95% RH non-condensing									
Explosion proof	Explosion proof No, prohibited. Do not use in hazardous areas								
Housing Aluminium									
Weight	With standard aluminium housing 5.5kg								
Options	None currently.								

FAILSAFE FUNCTION COMING TO OUR 200NM SERIES SOON, ADAPTING CAPACITOR TECHNOLOGY

AVA Actuators do not use Lithium batteries to achieve its failsafe functionality. Unlike most other actuators offering failsafe, AVA uses the latest electrical capacitor technology. This is seen as the next best thing for failsafe solution if a mechanical spring is not available. AVA actuators use the opening (or closing if normally open) to charge the actuator and ensure the actuator will close on power loss.















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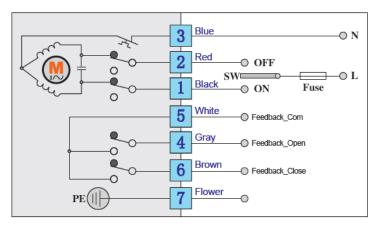
AVA is a revolutionary range of compact actuators offering 20Nm through to 400Nm with On Off, Failsafe, Modulating, Hi Speed functionality. All actuators are IP67 as standard, ISO 5211 direct mount.

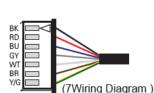
SERIES: AVA-200

BASIC ON OFF AND FAILSAFE ACTUATOR SERIES TECHNICAL DATA

Standard Wiring for our ON-OFF Actuators B200

Standard Wiring for our AVA Basic 200 series actuators including all voltages, 12VDC, 24VDC, 24VAC, 110VAC, 220VAC, 24VAC/DC and 95-265VAC 50/60Hz. Our ON-OFF actuators use a simple 3 wire system for control and 3 wire feedback connection as below. Note that the internal Space heater is pre wired and doesn't require additional wiring. When the actuator is powered, the internal heater will operate.









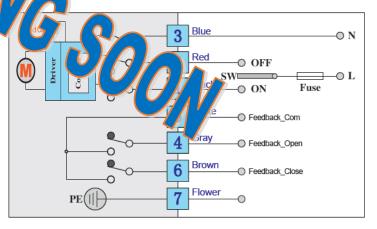




Standard Wiring for our FAILSAFE Actuators

Standard Wiring for our AVA Basic 200 series actuators including all voltages, 12VDC, 24VDC, AC, 110VAC, 220VAC, 24VAC/DC and 95-265VAC 50/60Hz. Our Failsafe actuators use a ystem for control and 3 wire feedback connection as below. The Failsafe actuas such will require an initial charge period. After this point, the actuapening and on removing power from Pin 2 (Red) the actuator will 2 will Open the actuator and again charge the capacitor.

Note that the internal Space heater is pre wired and doesn't require additional wiring. When the actuator is powered, the internal heater will operate.



















AVA is a revolutionary range of compact actuators offering 20Nm through to 400Nm with On Off, Failsafe, Modulating, Hi Speed functionality. All actuators are IP67 as standard, ISO 5211 direct mount.

SERIES: AVA-200

SMART ON OFF AND SMART MODULATING ACTUATOR SERIES TECHNICAL DATA

Model: AVA 200Nm - 20	0-10 SMART ON-	OFF ACTUATOR 8	MODULATING 2	00-25			
Specification		AC 1ph 50/60Hz			DC		
Rated Voltage	AC230V	AC110V	AC24V	DC24V	DC12V		
Voltage Range	AC190-250V	AC90-130V	N/A	DC 22-28V	N/A		
Consumption S200-10 / S200-25	150W@ running	150W@ running	N/A	120w running @	N/A		
	0.0W hold	0.0W hold		1.5w holding			
Peak current S200-10 / S200-25	0.7A @ 5ms	0.7A @ 5ms	N/A	6A@ 5ms	N/A		
Fuse S200-10 / S200-25	5A	10A	N/A	10A	N/A		
Maximum Break Torque Nm	250Nm			250Nm	N/A		
Run & Reseat Torque Nm	200Nm			200Nm			
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied						
Run time S200-10 / S200-25		About 30 Seconds		About 30 Seconds	About 30 Seconds		
STANDARD FEATURES:							
Operating frequency	Not continuous, allow ≥ 1 minute between cycles						
Position confirmation	Mechanically driven dome style visual 2 colour indicator						
Mounting restriction	None, can be mounted at any angle. Leave room for space to operate manually, and for electrical connection						
End Position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.						
ISO:5211	F07-10						
Working Angle	Factory set at 90° ±2°, maximum angle of rotation 360°						
Female drive	male drive 22mm x 18mm deep						
Ingress protection IP67							
Max media temp	≤ 80C						
Ambient temp	-20 to +80C (Aluminium) Non-operating temp ; ≤ -40C to ≥80C						
Cable Length	Supplied without cable, 200 series is supplied with wiring box with conduit entry. Wiring via terminal strip within box.						
Ambient humidity	5-95% RH non-condensing						
Explosion proof	No, prohibited. Do not use in hazardous areas						
Housing	Ising Aluminium						
Weight	With standard aluminium housing 5.5kg						
Options	None currently.						









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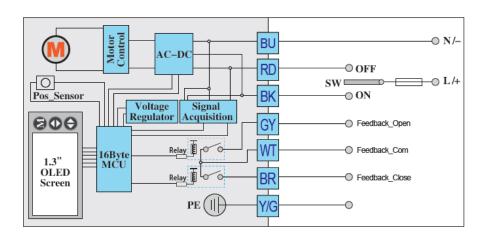
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SERIES: AVA-200

SMART ON OFF AND SMART FAILSAFE ACTUATOR SERIES TECHNICAL DATA

Standard Wiring for our ON-OFF Actuators 20010

Standard Wiring for our AVA Smart 200 series actuators including all voltages, 24VAC or 24VDC and 110V or 220VAC 50/60Hz. Our ON-OFF actuators use a simple 3 wire system for control and 3 wire feedback connection as below. Note that the internal Space heater is pre wired and doesn't require additional wiring. When the actuator is powered, the internal heater will operate.



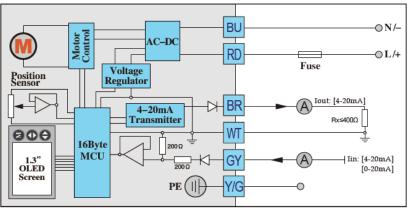




Standard Wiring for our Modulating Actuators 20025

Standard Wiring for our AVA Smart 200 series actuators including all voltages, 24VAC or DC and 110 or 220VAC 50/60Hz. Our ON-OFF actuators use a simple 2 wire system for power and 3 wire control and feedback connection as below and 3 wire input/output and common loop for modulating control. Note that the internal Space heater is pre wired and doesn't require additional wiring. When the actuator is powered, the internal heater will operate.

4-20mA/0-20mA



If using 1-5V, 0-5V, 2-10V or 0-10V then in the wiring diagram A is replaced by V and Resistor is 10K. For 20 series, must order as Amp or Volt input/output.























AVA is a revolutionary range of compact actuators offering 20Nm through to 400Nm with On Off, Failsafe, Modulating, Hi Speed functionality. All actuators are IP67 as standard, ISO 5211 direct mount.

SERIES: AVA-200

WHAT ELSE IS AVAILABLE FROM AVA?

WIRELESS RF ACTUATORS

Available for the smart actuators that we offer, AVA offer a wireless controlled actuator that is using the latest technology in RF control. Using our smart actuators we are able to give open and close functionality over large distances uses a number of wireless / RF technologies. This is mainly designed for applications where long distance control is needed and where power is available but control is not, such as out buildings. The wireless control can be a 1 to 1 connection or 1 to 10 connection for example. Call your AVA sales team for more information.





TIMER ACTUATOR SERIES

AVA have a very unique offering in our Timer series actuators. The AVA Smart actuators use the onboard firmware and menu system to give the customer a programmable timer function within the actuator. The user can set various methods of opening and closing for example either as a PULSE timer (power open, wait a set period of time and automatically close) or DAY timer which allows a schedule of operations to be setup via the intuitive menu system. This actuator series removes the need of PLC's to control your actuator. All you need is power.

TIMER ACTUATOR SERIES

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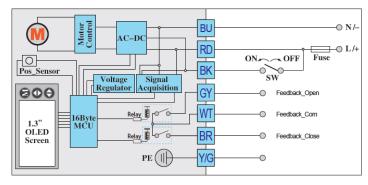




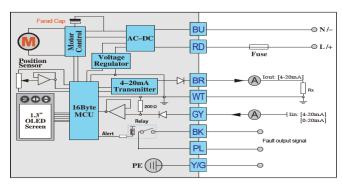
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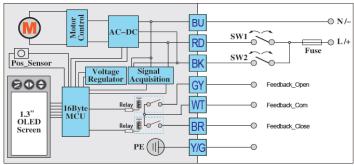
ALTERNATIVE WIRING CONFIGURATIONS AVAILABLE FROM AVA



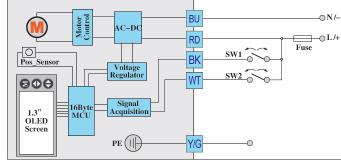
Wiring G: BD3J - SPST / Relay Position Confirmation



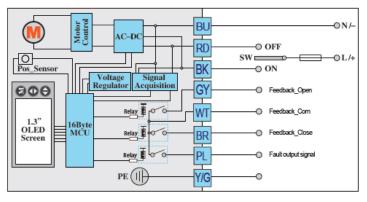
Wiring P2: 4-20ma Failsafe with alarm output



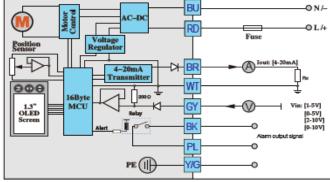
Wiring J: B33J 2 x SPST / Relay Position Confirm (3 position)



Wiring M: B44 SPST / No position confirmation (4 position)



Wiring F: B3JA 2 x SPDT/Relay Position Confirm + Alarm Output



Wiring U5: 0-10V Control/ Feedback with Alarm Output

AVA Wiring Options

As you will see from the previous page, our AVA electric actuators are capable of various wiring configurations based on what your application requires. As detailed, our standard for our Basic actuators is what we call B - B3S which is a SPDT with volt free position confirmation. Our Smart actuators use E - B3J which is SPDT Relay position confirmation. Remember that all of our Smart units don't use mechanical cams and micro switches. A digital encoder and relays are used. The following are some of the additional wiring diagrams that you might find of interest, that are available for our Smart actuators including 3 and 4 position wiring configurations. Check with your **WIRING AVA ACTUATORS**

AVA reseller for lead time on non stock wiring configurations.



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