

COMPACT QUARTER TURN ELECTRIC ACTUATOR

AVA-S110.10 SMART ON-OFF 110Nm

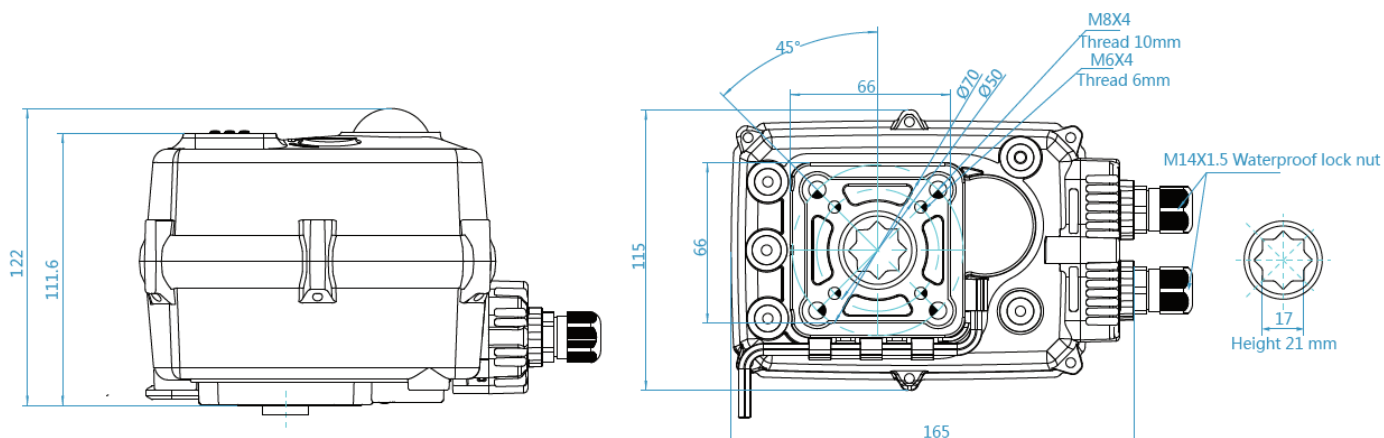


Model:	AVA-S110.10 110Nm SMART ON-OFF ELECTRIC ACTUATOR			
	AC	AC/DC	DC	DC
Rated Voltage	AC230V	AC/DC 24V	24VDC	12VDC
Voltage Range	AC 95-265V/DC100-300V	AC18-26/DC22-32V	DC22-32V	DC11-15V
Consumption	30W run, 3.9W hold	30W run, 3.9W hold	28W run, 2.10W hold	28W run, 2.10W hold
Peak current	0.26A @ 5ms 230V	2.5A @ 5ms 24VDC	2.5A for 5ms 24VDC	4.5A for 5ms
Fuse	2A	5A	5A	10A
Maximum Break Torque Nm	110			60
Run & Reseat Torque Nm	110			60
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power. Local control via touch buttons under power.			
Run time	≈ 10 sec			≈ 10 secs
STANDARD FEATURES:				
Operating frequency	AC not continuous, 75% duty cycle but recommend allowing ≥1 min between cycles. DC is continuous.			
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	F05/07			
Working Angle	Factory set at 90° ±2°, maximum angle of rotation 110° ±2°			
Female drive	17mm octagon x 21mm deep			
Ingress protection	IP67			
Max media temp	>+ 80C			
Ambient temp	-20 to +80C			
Non-operating temp	≤ -40C to ≥80C			
Ambient humidity	5-95% RH non-condensing			
Explosion proof	No, prohibited. Do not use in hazardous areas			
Housing	ABS			
Weight	2.2kg			

Dimensions: (mm)

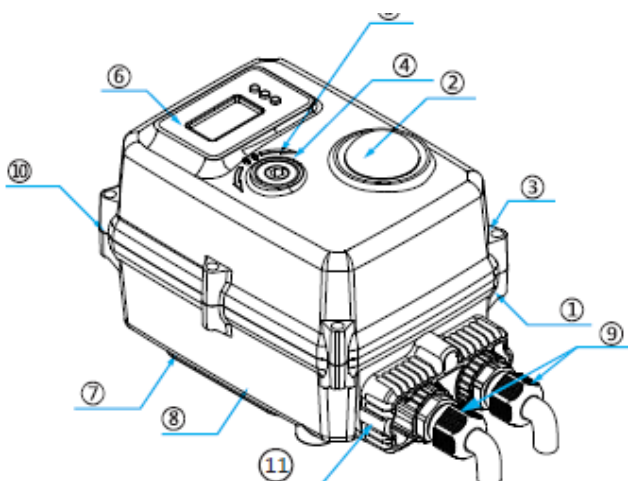
AVA-S110.10 110Nm SMART ON-OFF ELECTRIC ACTUATOR

Dimension 【Female octagonal】



Materials:

AVA-S110.10 110Nm SMART ON-OFF ELECTRIC ACTUATOR



No	PART	MATERIAL
1	Housing	ABS
2	Indicator	Plastic
3	Screws	304
4	Manual Shaft	304
5	Manual Seal	NBR
6	Label	PVC
7	Allen Key	Steel
8	Base	ABS
9	Connector	Nylon
10	Seal	NBR
11	Terminal Cover	ABS

* Note that screen only available on Smart series

Part Numbers:

AVA-S110.10 110Nm SMART ON-OFF ELECTRIC ACTUATOR

Model	Voltage	Housing	Heater	Control of on-off function
AVA-110.10-	5 AC 95-265V	A ABS	0 None	E SPDT. Switchable +ve/ live Volt free end of travel confirmation
	6 DC 24V		H 5W/24kΩ	F SPDT. Switchable +ve/ live Relay position confirmation and alarm
				G SPST. Switchable +ve/ live Relay position confirmation and alarm

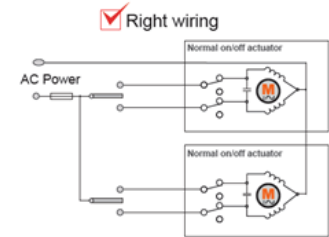
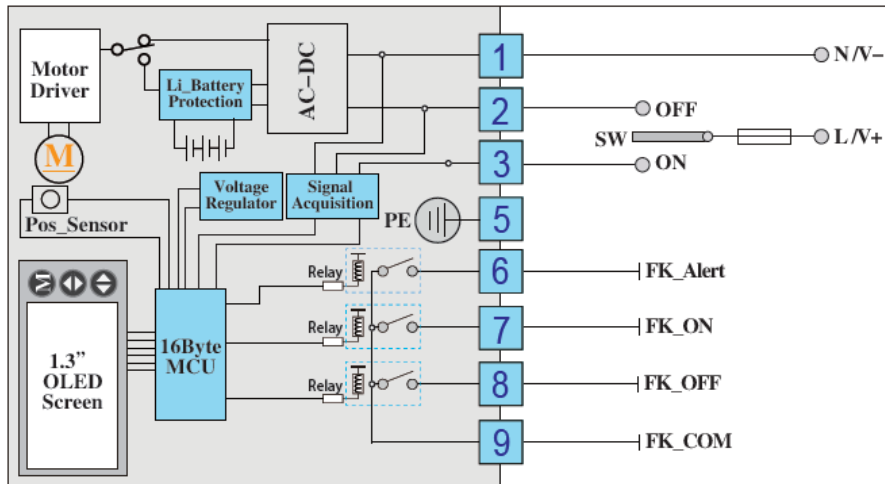
NOTE: UK STANDARD STOCK IS WITH WIRING 'E', ANY OTHERS ARE FACTORY OPTIONS. DETAILS AVAILABLE ON REQUEST.



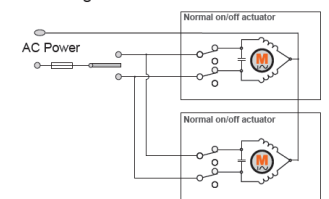
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Details are subject to change without notice in the interests of product development and improvement.

SPDT Wiring Type 'B'



Error wiring

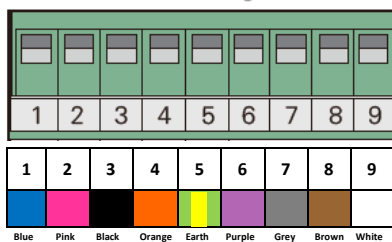


For actuators in parallel.

Control instructions:

- ☐ SW is connected with [2], the actuator will rotate clockwise ↻. When the valve is closed, [9] is connect with [8], giving signal of closing.
- ☐ SW is connected with [3], the actuator will rotate anticlockwise ↻. When the valve is open, [9] is connect with [7], giving signal of opening.
- ※ Notice 1: [9] is not connected with [7] and [8], when the actuator is rotating.
- ※ Notice 2: After power cut, the feedback and fault signal will disappear, [9] is not connected with [8] and [7].
- ※ When actuator is stuck or switch fails to arrive by other faults, [6] connect with [9], send alarm signal.

9P-5.08Terminal diagram

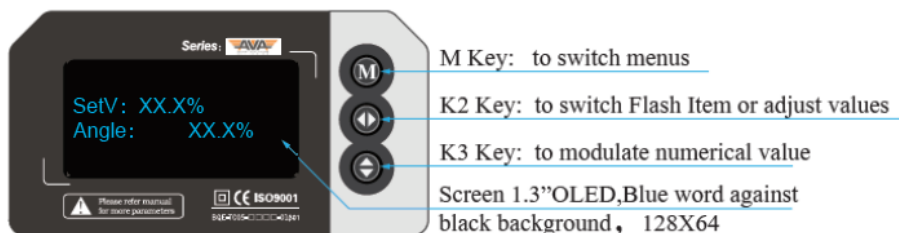


Control instructions:

SW1	SW2	Flow direction	Feedback signal
connect ↻	disconnect ↻	0°	[9] connect with [8]
disconnect ↻	connect ↻	90°	[9] connect with [7]
connect ↻	connect ↻	180°(could be free set by menu)	[9] connect with [7] [8]
Alarm single			[9] connect with [6]

Wiring instructions:

- 1.Fuse:please refer to manual for more parameters.
- 2.SW switching capability:please refer to manual for more parameters.
- 3.Feedback signal contact load capacity:0.1A/250VAC 0.5A/30VDC.
- 4.Please make sure actuator connect ground reliably.



Please ask for separate user guide document detailing screen by screen options, specific to actuator function.