



S20.10 SMART ON-OFF 177in.lbs



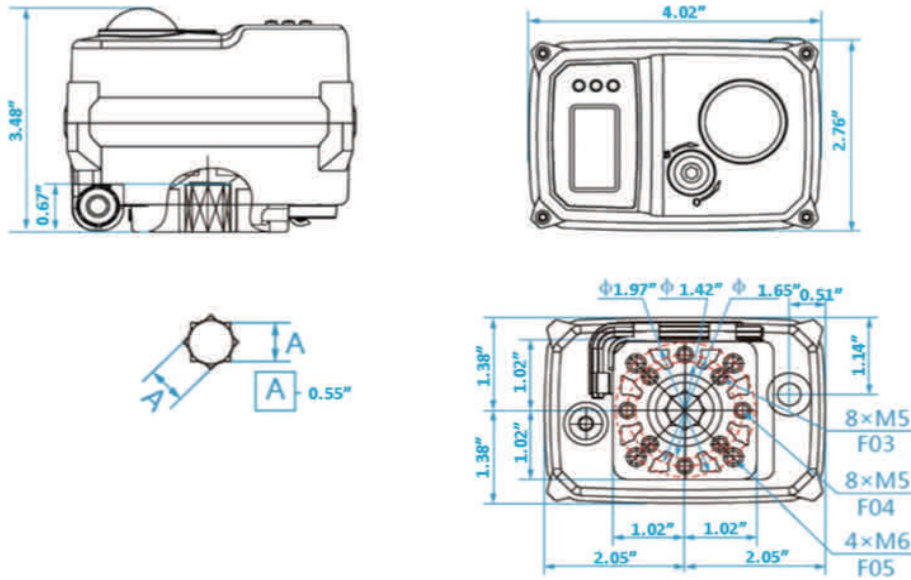
Model S20.10 177in.lbs SMART ON-OFF ELECTRIC ACTUATOR

	High voltage	Low voltage
Rated Voltage	230V AC/DC	24V AC/DC
Voltage Range	AC 95-265V 50/60Hz, DC 100-300V	AC 18-26V 50/60Hz, DC 22-32V
Consumption	9.6W run, 0.12W hold	9.6W run, 0.85W hold
Peak Current	35mA for 5ms AC230V; 75mA for 5ms DC 110V	350mA for 5ms DC 24V
Fuse	1A	2A
Maximum Break Torque in.lbs	177	177
Run & Reseat Torque in.lbs	177	177
Manual Operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied	
Run time	≈ 10 sec	≈ 10 secs

STANDARD FEATURES:

Operating Frequency	Not continuous; 75% duty cycle but recommended to allow ≥ 1 minute between cycles.
Position Sensing	No mechanical cams fitted; magnetic with digital sensing.
Maximum Angle of Rotation	$330^\circ \pm 5^\circ$
Position Indication (Visual)	2 color (red/ yellow) dome for local visual confirmation.
End Position Indication	2 x Electronic relay
Mounting Restriction	None, it can be mounted at any angle. Leave space for manual operation and electrical connection.
ISO:5211	F03 & F05 (+ F04 which mounts at 45 degrees)
Female Drive	0.55" (14mm) octagon x 0.67" (17mm) deep
Ingress Protection	IP67, cover recommended if exposed to direct rain or sun.
Max Media Temperature	$\leq 176^\circ\text{F}$
Ambient Temperature	-4°F to $+140^\circ\text{F}$
Non-operating Temperature	$\leq -40^\circ\text{F}$ to $\geq 176^\circ\text{F}$
Ambient Humidity	5-95% RH non-condensing
Explosion Proof	Actuator is not explosion proof and should not be placed in hazardous areas.
Shock Resistance	$\geq 300\text{m/s}^2$
Vibration	10 to 55Hz, 1.5mm double amplitude (product damage most likely if exceeded)
Noise level	$\approx 50\text{dB}$
Flame Retardant Level	V-0 rating based on UL-94 testing
Certification	CE
Maintenance	Maintenance free
Cable Entry	Cable fitting provided, actuator pre-wired with approx. 20" flying lead
Housing	Plastic (ABS) cover
Weight	Standard ABS housing 1.37lbs



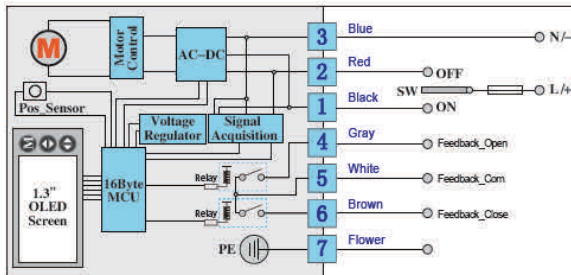


PART NUMBERS Basiks-S20.10 177in.lbs SMART ON-OFF ACTUATOR

Model	Voltage	Cover	Heater	Control of on-off function
S20.10-	Multi-voltage	P (ABS)	H 2W/24kΩ	E SPDT. Switchable +ve/ live Relay end of travel confirmation
	5 95-265V AC/DC			
	6 24V AC/DC			

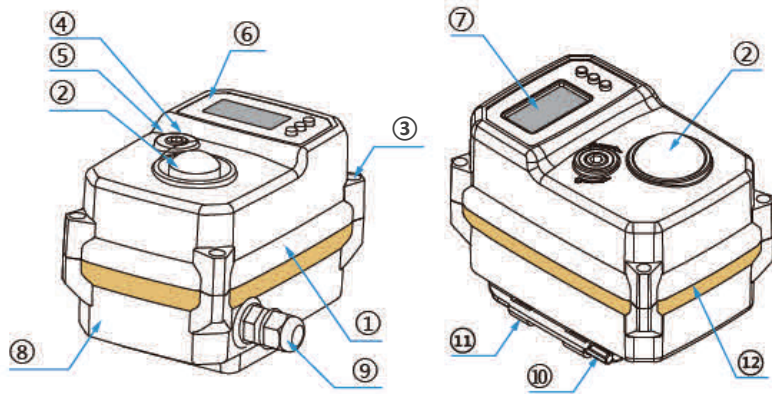
WIRING DIAGRAMS Basiks-S20.10 177in.lbs SMART ON-OFF ACTUATOR

Basiks-S20.10 ON-OFF WIRING 'E'



SW	Valve Position	Confirmation	Notes
OFF	Closed	5 & 6 connected	No signal without external power.
ON	Open	5 & 4 connected	No signal mid-travel

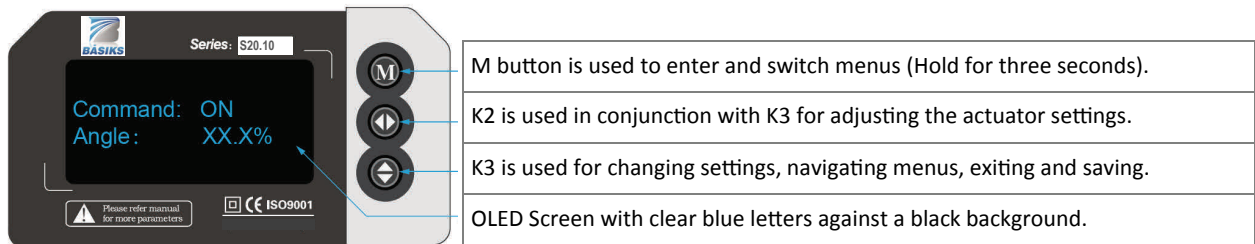
NOTE: ACTUATORS SHOULD HAVE DEDICATED POWER AND CONTROL



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

Overview: All Basiks smart electric actuators have local controls as standard. An OLED screen and 3 positive push buttons create a user friendly interface for local control and a variety of adjustments. The screen is easy to read, with bright blue letters on a black background, 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:



Standard local control function options:

- MANUAL CONTROL** The Basiks smart actuator can be opened and closed using the K2 and K3 buttons (hold down K3 for three seconds to access).
- DEAD BAND** Adjusts the accuracy and sensitivity of the actuator.
- SPEED CONTROL** The working time can be increased either by setting a step timer (run/stop/run/stop), or continuous running by adjusting the PWM.
- CLOSED POSITION** The close position of the actuator can be adjusted by using the K2 and K3 buttons (zero adjustment).
- REVERSE ACTING** Actuator closes when an open signal is received, and vice versa.
- EXTEND ANGLE** Adjust the open position by adjusting the span of the actuator. Typically used to set 0-180 degree operation.
- 3 POSITIONS** Sets the 3rd position of the actuator (subject to wiring system).