



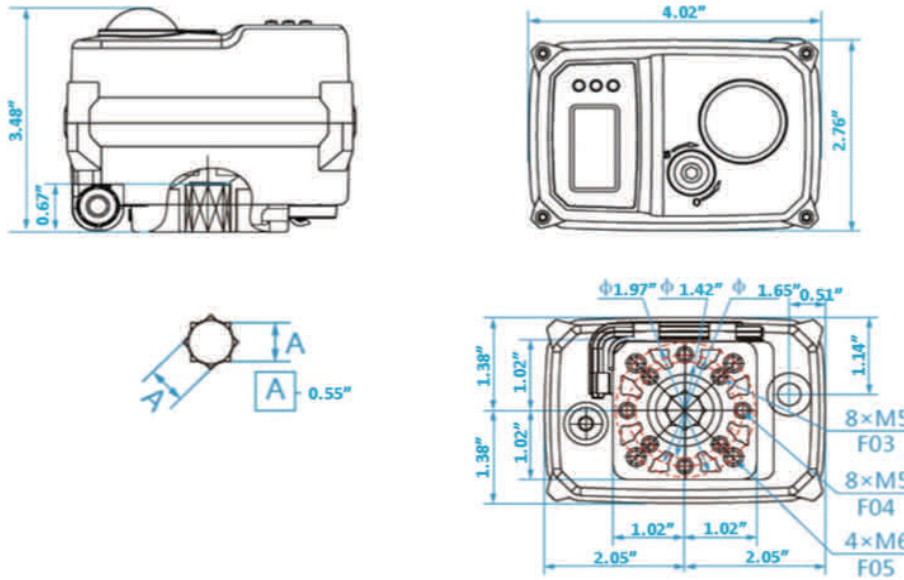
## S20.19 SMART ON-OFF HI-SPEED 133in.lbs



### Model S20.19 133in.lbs SMART ON-OFF HI SPEED ELECTRIC ACTUATOR

Rated Voltage	Low voltage 24 VDC
Voltage Range	DC 22-28V
Consumption	48W run, 0.58W hold
Peak Current	4.5A for 5ms DC 24V
Fuse	10A
Maximum Break Torque in.lbs	133
Run & Reseat Torque in.lbs	133
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied
Run time	≈ 1 secs
<b>STANDARD FEATURES:</b>	
Operating frequency	Continuous, but recommended to allow ≥ 1 minute between cycles
Position Sensing	Magnetic with digital sensing. No mechanical cams fitted.
Maximum Angle of Rotation	330° ±5°
Position Indication (Visual)	2 color (red/ yellow) dome for local visual confirmation
End Position Indication	2 x Electronic relay
Mounting Restriction	None, 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	≤ 176°F
Ambient Temperature	-4°F to +140°F
Non-operating Temperature	≤ -40°F to ≥176°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	≥300m/s <sup>2</sup>
Vibration	10 to 55Hz, 1.5mm double amplitude (product damage most likely if exceeded)
Noise level	≈65dB
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)
Weight	Standard ABS housing 1.37lbs





PART NUMBERS

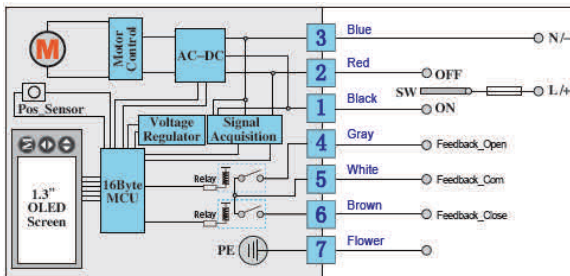
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Model	Voltage	Housing	Heater	Control of on-off function
S20.19	6 DC 24V	p (ABS)	H 2W/24kΩ	E SPDT. Switchable +ve/ live Relay end of travel confirmation

WIRING DIAGRAMS

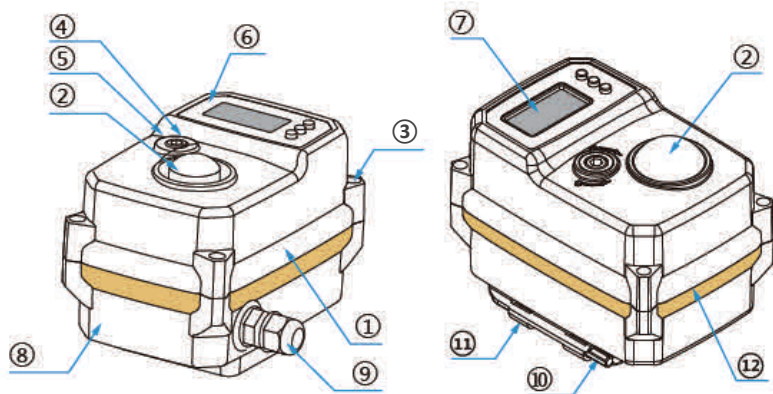
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Basiks-S20.10 ON-OFF WIRING 'E'



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: US STANDARD STOCK IS WIRING 'E', OTHERS ARE FACTORY OPTIONS.



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

S20.19 133in.lbs SMART ON-OFF HI SPEED ACTUATOR

**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:

M button is used to enter and switch menus (Hold for three seconds).
K2 is used in conjunction with K3 for adjusting the actuator settings.
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 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).