

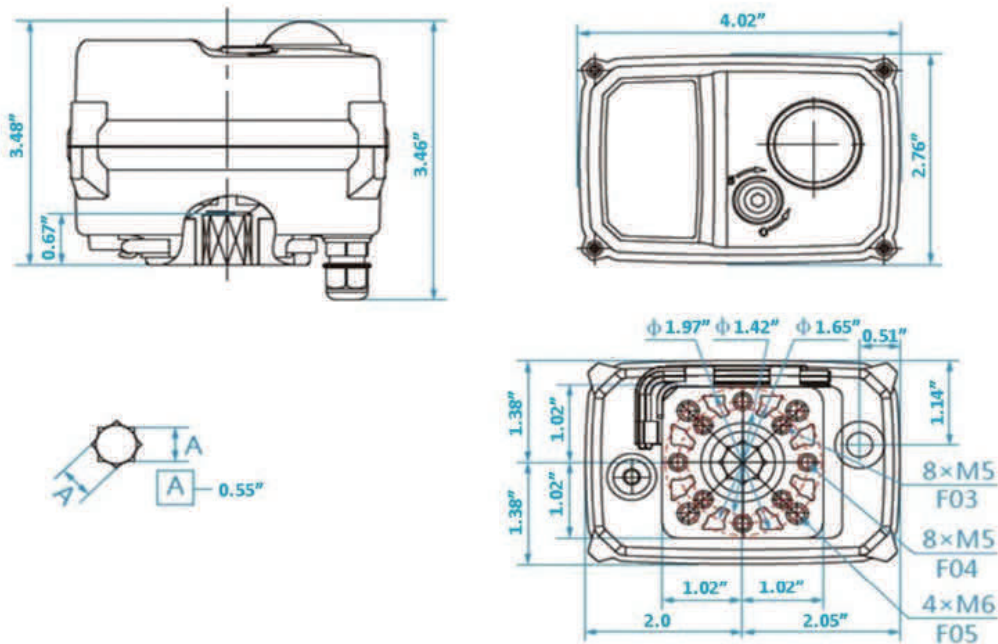


S20.29 SMART MODULATING HI-SPEED 133in.lbs



Model	S20.29 133in.lbs SMART MODULATING HI-SPEED ACTUATOR
Rated Voltage	Low voltage 24V DC
Voltage Range	60Hz, DC22-32V
Consumption	48W run, 0.5W hold
Peak Current	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
Control Signal Input/ Output	4-20mA [Factory options: 0-10V]
Run time	≈ 1 sec
STANDARD FEATURES:	
Operating Frequency	100% Duty cycle, suitable for continuous running
Position Sensing	No mechanical cams fitted; magnetic with digital sensing.
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, 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	≤ 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 ²
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) cover
Weight	Standard ABS housing 1.37lbs

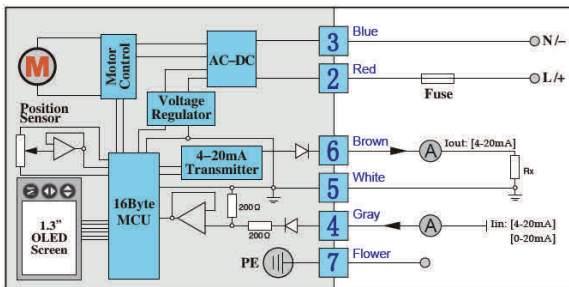




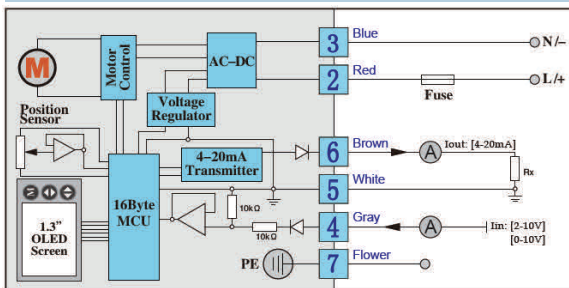
PART NUMBERS S20.29 133in.lbs SMART MODULATING HI-SPEED ACTUATOR

Model	Voltage	Housing	Heater	Control of on-off function
S20.29-	6 DC 24V	P Plastic (ABS)	H 2W/24kΩ	P 4-20mA Input & output
				U 0-10V Input & output

Basiks-S20.29 MODULATING WIRING 'P'

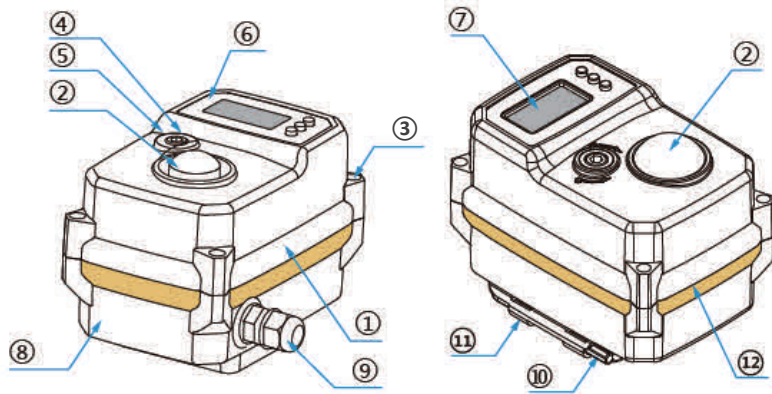


Basiks-S20.29 MODULATING WIRING 'U'



NOTES (actuators without alarm function)

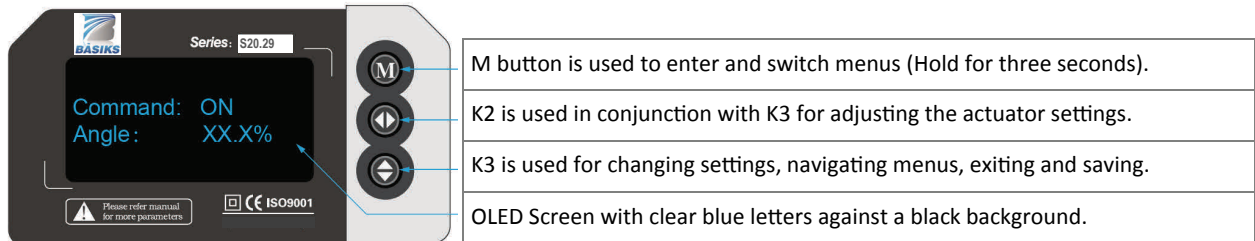
- Terminals 2 & 3 are the power supply, ensure correct polarity when connecting, and that the voltage to be applied is within the range of the actuator that it is being applied to. Supply Live / +ve on 2, Neutral / -ve on 3)
- Terminals 4, 5 & 6 are the control signal input & output, ensure correct polarity when connecting (+ve on 4 & 6, -ve on 5)
- Terminal 4 is the control signal input, input impedance is shown on each relevant diagram
- Terminal 6 is the output feedback, and is in the same form as the input signal.
- For Rx, ensure that a resistor with a low TCR (Temperature Coefficient of Resistance) is selected. $V_{out} = I_{out} \times R_x$ Where $V_{out} \leq 8V$, $R_x \leq 400\Omega$
Actuator manufacturer recommends $V_{out} \leq 5V$, $R_x = 250\Omega$ (0.25W)
- Local push button controls can be used to set the action on loss of control signal [move to open, move to closed or stay put / freeze] for 1-5V, 2-10V and 4-10mA control signals only.
- Do not supply power supply voltage to the control module connections as it will irreparably damage the actuator, and is not covered under the warranty.
- Contacting loading capacity 0.1A for 24VDC, 50mA for 230VAC.



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.
- SIGNAL LOSS** Sets one of three positions the actuator takes at loss of signal control.
- CURRENT ADJUST** Adjust the output current of the actuator.