

Analog Rocker – AR3

Analog Rockers were developed to provide the reliability required in demanding environmental conditions such as multifunction grips, dashboards or armrest controls for heavy duty industrial applications.

The unique sensing design makes the rocker module an ideal proportional function solution for 'off-road' machinery.

Analog Rockers have been designed to be integrated into standard and custom designed grips, panels and electronic controls.

Main Features

- Contactless sensing Hall effect
- Life greater than 2 million cycles
- One sensor optional second sensor for redundancy
- Integrated temperature compensation
- Short circuit protection



Electrical Data						
Supply Ratings	Voltage range DC	8.5V 30V or 5.0 V ± 10%				
	current	50 mA at 24V				
Voltage Output	Output 1	0.5V 4.5V				
	Output 2*	4.5V 0.5V				
Total error		< 10%				
Output current		max. 1 mA				
Other electrical	EMI	> 100 V/m				
Characteristics						
Mechanical Data						
Life		> 2 million cycles				
Operating temperature)					
- Storage		- 40°C to 85°C				
- Working		- 35°C to 70°C				
Operating force		4-6 N				
Vertical load maximum	า	30 N				
Protection Level		IP 65 (from above when				
mounted)						
Rocker deflection angl	± 30°					
* for rodundant vorsion						

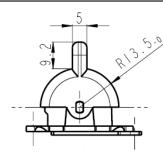
* for redundant version

	rdering code		1	2	3	4	5	6	7	8	9
	racing code	Evample	AR3S	01	CY.	30/30		n n	1.0	2	00
	T	Example	AKSS	<u> </u>		130/30	411		<u> </u>	14	00
1	Туре	AR3 = analog rocker 3	I T	t	T	Ť	T	Ť	t	t	t
		S = varnished PCB									
		N = non varnished PCB	l								
2	Actuator Shape	01 = long lever									
		02 = shortlever									
		05 = thumb lever									
3	Actuator Colour	GY = greγ	t								
–											
4	Actuator Angle	30/30 = left 30° / right 30°	t								
	Accuator Angle										
5	Operation Force	4N = lever shape 01	1								
5	operation roree	5N = lever shape 02									
		6N = lever shape 05									
	operation force depends on act	•	ļ								
6	Electrical supply	0 = voltage 8.5 30 V									
		$1 = 5 V \pm 10\%$									
7	Output	V = voltage	I								
									_		
8	Sensors	1 = 1 sensor	I								
		2 = 2 sensors (for redundancy)									
9	Output Voltage Co	00 = output 1 / 0.5V 4.5V; 1mA	†								
		output 2 / 4.5V 0.5V; 1mA									
		02 = output 1 / 0.5V 4.5V; 1mA									
		$03 = \text{output } 1 / 4.5 \text{V} \dots 0.5 \text{V}; 1 \text{mA}$									
		00 – oatpat 17 4.0V 0.0V; INA									

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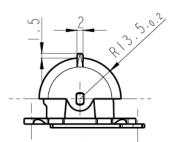


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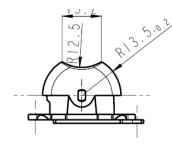


Module actuator shape 01



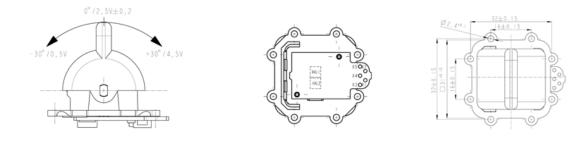


Module actuator shape 02





Module actuator shape 05



Pin assignment:

PIN	ALLOCATION	FUNCTION (8,5-30V)	FUNCTION (5V)
X5	OUT 1	OUTPUT 1 (HAL1)	OUTPUT 1 (HAL1)
X4	OUT 2	OUTPUT 2 (HAL2)*	OUTPUT 2 (HAL2) *
XЗ	V	RESERVED	5V±10%
X2	GND IN 1	REFERENCE GROUND	REFERENCE GROUND
X1	U _{bat}	VOLTAGE SUPPLY 8,5-30V	NOT CONNECTED

* FOR REDUNDANT VERSION ONLY