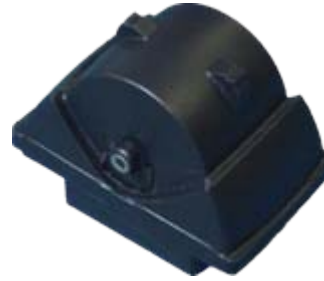


AR5 Analog Rocker was developed to provide the reliability required in demanding environments - such as dashboards or armrest controls - for heavy duty industrial and off-road applications.

The unique design makes the rocker module an ideal proportional function solution for off-road machinery for cost-effective custom designs.

AR5 has been designed to simplify the customisation of fingertip rockers in an off-road vehicle application.



### Main Features

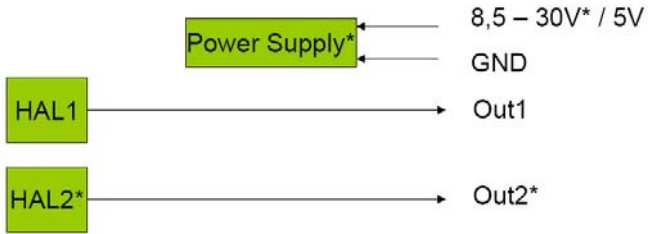
- Design allows for usage of longer levers
- Contactless sensing – Hall effect
- Rocker life > 2 million cycles
- Optional detent / over travel, life > 200K cycles; optional latching, life > 100K cycles
- Single sensor - optional second sensor for redundancy
- Integrated temperature compensation
- Short circuit protection
- Ideal solution for fingertip rocker designs

Electrical Data		
Supply Ratings	Voltage range DC current	9V ... 30V or 5.0 V ± 5% 50 mA at 24V
Voltage Output	Output 1 Output 2*	0.5V ... 4.5V at 5Vcc 4.5V ... 0.5V at 5Vcc Output proportional to Vcc
Total error		< 10%
Output current		1 mA max.
Other electrical Characteristics	EMI	> 100 V/m
Mechanical Data		
Life:	- rocker - detent / overtravel - latching	> 2 million cycles > 200k cycles > 100k cycles
Operating temperature	- Storage - Working	- 40°C to 85°C - 40°C to 85°C
Operating force		4-6 N
Vertical load maximum		30 N
Protection Level		IP 65
Rocker deflection angle		± 40° max.

\* for redundant version

Ordering code	1	2	3	4	5	6	7	8	9	10
<b>Example</b>	AR5	C	40/40	xN	D26/26	L32/32	0	V	2	00
<b>1 Type</b>	AR5 = analog rocker 5									
<b>2 Lever</b>	C = customized lever S = standard lever									
<b>3 Deflection Angle</b>	40/40 = ± 40° x/x = customized ± 0-40° (left/right)									
<b>4 Operation Force</b>	xN = operation force depends on lever									
<b>5 Detent</b>	-/- = no detent D26/26 = standard ± 26° detent Dx/x = customized ± x° detent									
<b>6 Latching</b>	-/- = no latching L32/32 = standard ± 32° latching Lx/x = customized ± x° latching									
<b>7 Electrical supply</b>	0 = voltage 9 ... 30 V 1 = 5 V ± 10%									
<b>8 Output</b>	V = voltage									
<b>9 Sensors</b>	1 = 1 sensor 2 = 2 sensors (for redundancy)									
<b>10 Output Voltage Code</b>	00 = output 1 / 0.5V ... 4.5V; 1mA output 2 / 4.5V ... 0.5V; 1mA 02 = output 1 / 0.5V ... 4.5V; 1mA 03 = output 1 / 4.5V ... 0.5V; 1mA									

## Block Schematic AR5



\* Optional

## Pin Assignment of AR5

Pin	Signal	Function 8,5 -30V	Function 5V
1	Ub *	Supply Voltage	Not connected
2	GND	Reference Ground	Reference Ground
3	Vcc *	Reserved (do not connect)	Supply Voltage
4	Out1	Output Signal	Output Signal
5	Out2*	Optional redundant Output Signal	Optional redundant Output Signal

## Install dimensions

