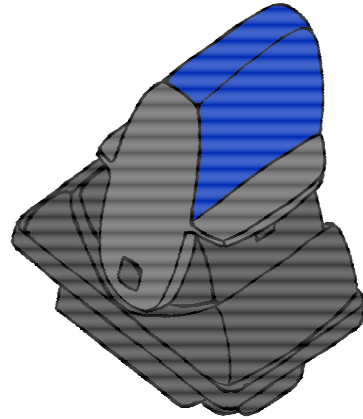


# Analog Rocker – AR5 (Fingertip)



**AR5**



**Example AR5 solution**  
(showing custom lever)

DTCs AR5 Analog Rocker has been 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.

DTCs 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		- 40°C to 85°C
- Storage		- 40°C to 85°C
- Working		- 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

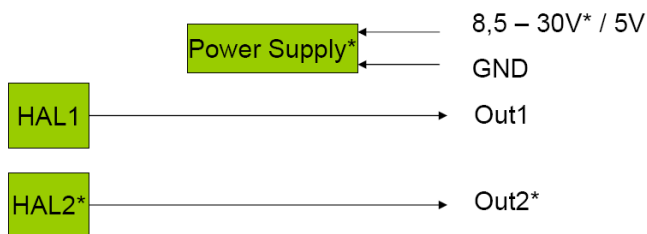
## Custom modifications

- Deflection angle
- Detent
- Overtravel
- Lever design
- Redundancy

## Order Code

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

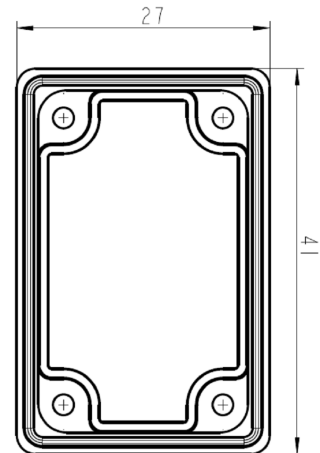
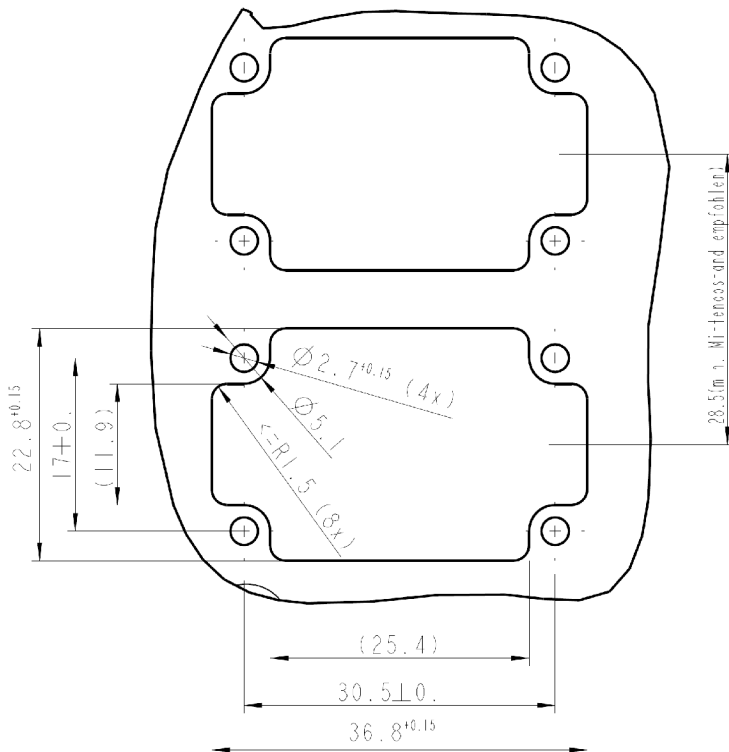
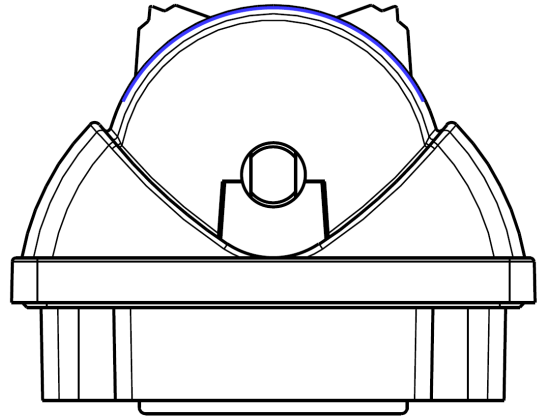
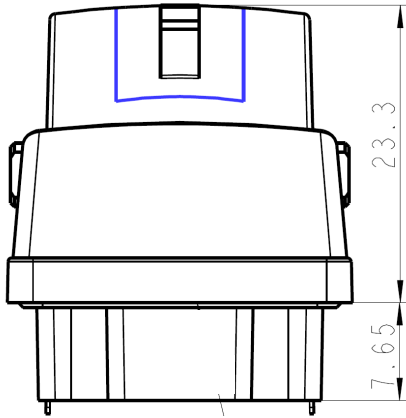


\* Optional

## 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



**DeltaTech Controls – A CoActive Technologies Company - worldwide Facilities**

With sales offices and manufacturing facilities located worldwide, please visit our website at [www.deltatechcontrols.com](http://www.deltatechcontrols.com) for a complete listing and to find the office nearest to you.

**France**

2 Boulevard Michael Faraday  
Arlington Square, Batiment B  
Serris - F77716 Marne La Vallee Cedex 4  
France  
phone: + 33 160 24 51 51  
fax: + 33 (0)3 84 69 08 97

**Germany**

Holzhauser Strasse 26-32  
D-13509 Berlin  
Germany  
phone: + 49 30 43 999 0  
fax: + 49 30 43 999 203

**Hong Kong**

Unit 901, West Tower  
Shun Tak Center  
168-200 Connaught Road  
Central, Hong Kong  
phone: + 852 2732 2720  
fax: + 852 2732 2919

**USA**

5288 Valley Industrial Blvd. S  
Shakopee, MN 55379  
USA  
phone: + 1 952 403 7418  
fax: + 1 952 233 9707



No information and data contained in this publication shall be construed to create any liability on the part of DeltaTech Controls GmbH. Any new issue of this publication shall automatically invalidate and supersede any and all previous issues. Dimensions are subject to change without prior notice.

All Copyrights belong to DeltaTech Controls GmbH and CoActive Technologies.  
All other trademarks or registered trademarks are property of their respective owners.  
All data subject to change without notice. ©2007