

Preliminary



AR5 with DTC standard 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, 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	8,5V ... 30V or 5.0 V $\pm$ 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
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		
Operating force		4-6 N
Vertical load maximum		30 N
Protection Level		IP 65
Rocker deflection angle		$\pm$ 40° max.

* for redundant version

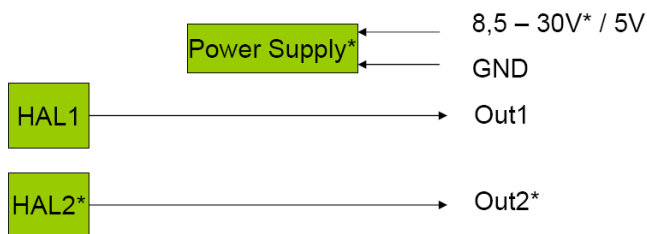
Custom modifications

- Deflection angle
- Detent
- Overtravel
- Lever design
- Redundancy
- Connector / Harness

Order Code

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



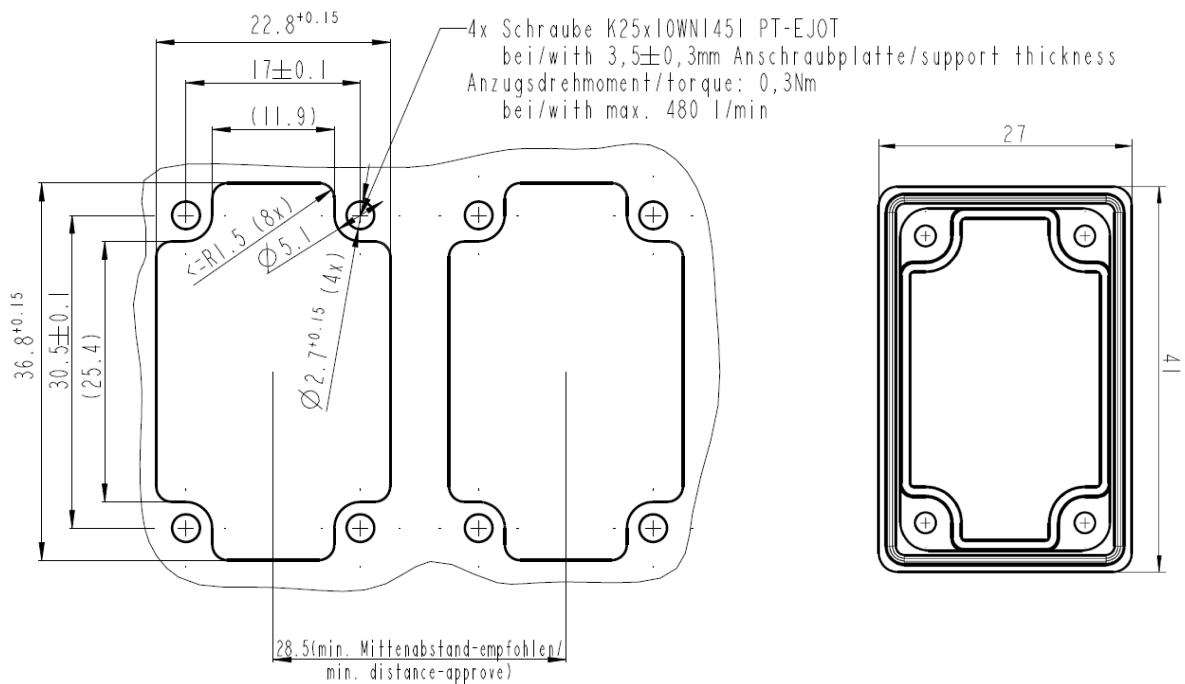
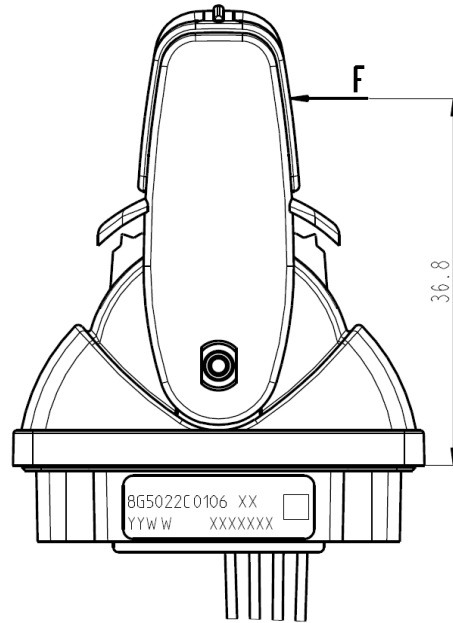
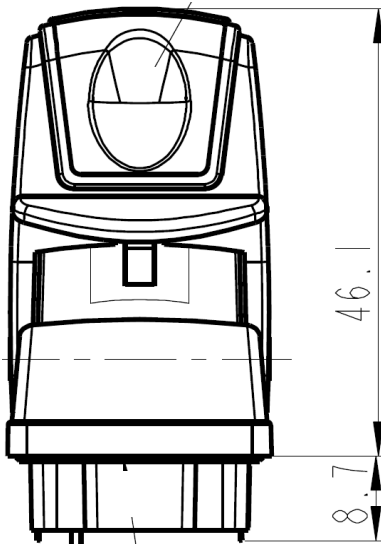
* Optional

Pin Assignment

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

Analog Rocker – AR5

Install dimensions



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