DTCs Analog Rockers have been 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.

DTCs 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 current	8.5V … 30V or 5.0 V ± 10% 50 mA at 24V
Voltage Output	Output 1 Output 2*	0.5V … 4.5V 4.5V … 0.5V
Total error		< 10%
Output current		max. 1 mA
Other electrical Characteristics	EMI	> 100 V/m

| Mechanical Data	
Life	> 2 million cycles
Operating temperature - Storage - Working	- 40°C to 85°C - 35°C to 70°C
Operating force	4-6 N
Vertical load maximum	30 N
Protection Level	IP 65 (from above when mounted)
Rocker deflection angle	± 30°

* for redundant version

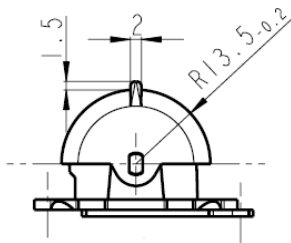### Custom modifications

- Output characteristics

- Actuator colour

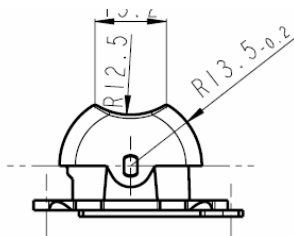| Ordering code		1	2	3	4	5	6	7	8	9
	Example	AR3S	01	GY	30/30	4N	0	V	2	00
1 Type	AR3 = analog rocker 3 S = varnished PCB N = non varnished PCB									
2 Actuator Shape	01 = long lever 02 = short lever 05 = thumb lever									
3 Actuator Colour	GY = grey									
4 Actuator Angle	30/30 = left 30° / right 30°									
5 Operation Force operation force depends on actuator shape	4N = lever shape 01 5N = lever shape 02 6N = lever shape 05									
6 Electrical supply	0 = voltage 8.5 … 30 V 1 = 5 V ± 10%									
7 Output	V = voltage									
8 Sensors	1 = 1 sensor 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 = output 1 / 4.5V … 0.5V; 1mA									
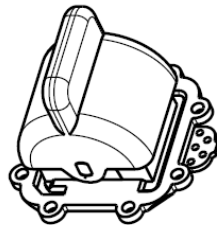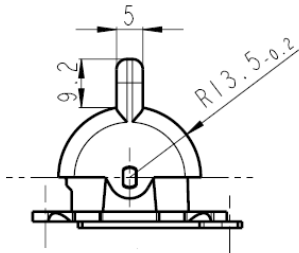
Module actuator shape 01

Module actuator shape 02

Module actuator shape 05

$0°/2,5V±0,2$

$-30°/0,5V$

$+30°/4,5V$

$\varnothing 2.4^{+0.1}$

$32±0.15$

$16±0.15$

$32±0.15$

$\square 31^{+0.15}$

$16±0.15$
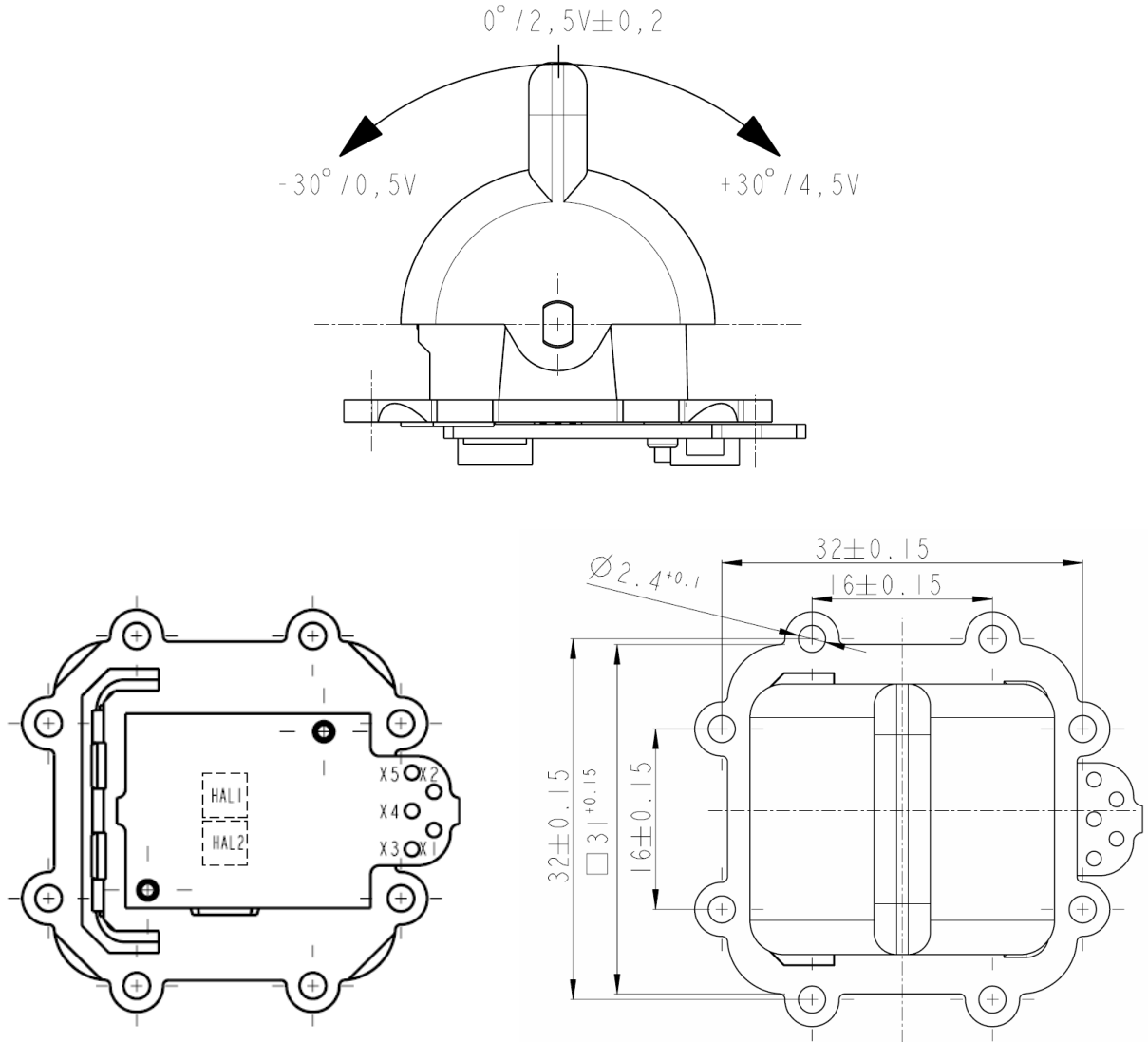
Pin assignment:

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) *
X3	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

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