

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

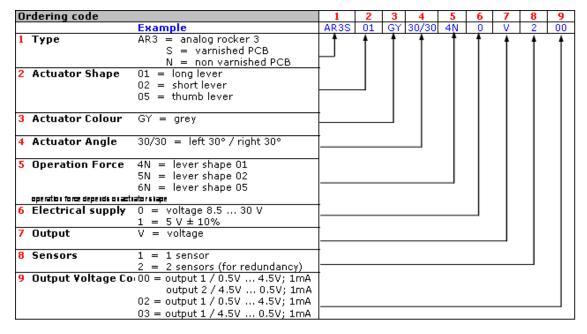






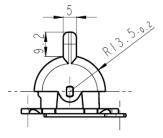
| Floorist Data | | |
|-----------------------|------------------|-------------------------|
| Electrical Data | | |
| Supply Ratings | Voltage range DC | 8.5V 30V or 5.0 V ± 10% |
| | current | 50 mA at 24V |
| | | |
| Voltage Output | Output 1 | 0.5V 4.5V |
| 0 . | Output 2* | 4.5V 0.5V |
| | | |
| Total error | - | < 10% |
| Output current | | max. 1 mA |
| - | | |
| Other electrical | EMI | > 100 V/m |
| Characteristics | | |
| | | |
| Mechanical Data | | |
| Life | | > 2 million cycles |
| | | - 2 million by clob |
| Operating temperature | 9 | |
| - Storage | | - 40°C to 85°C |
| - Working | | - 35°C to 70°C |
| | | 00 0 10 70 0 |
| Operating force | | 4-6 N |
| Operating force | | 4-014 |
| Vertical load maximum | | 30 N |
| ventical idad maximum | II. | |
| Protection Level | · | IP 65 (from above when |
| FIOLECTION LEVEL | | mounted) |
| Rocker deflection ang | lo. | ± 30° |
| | | |

^{*} for redundant version



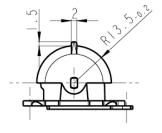


Analog Rocker – AR3



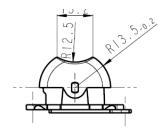


Module actuator shape 01



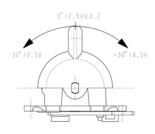


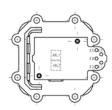
Module actuator shape 02

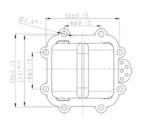




Module actuator shape 05







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) * |
| ХЗ | ٧ | 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