

## HALL EFFECT JOYSTICK

- The heavy-duty joysticks of the TRC range are based on the dimensions and mounting points of industrial standards. The handles offer a good grip and allow a perfect adaptation to the ergonomics and design of the final system. .
- High durability due to the use of non-contact Hall effect sensors allows these products to be used in the most demanding applications.



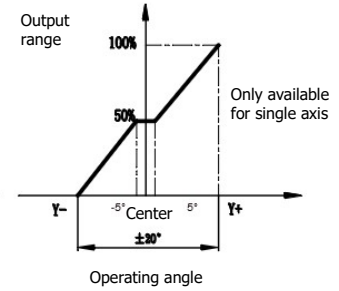
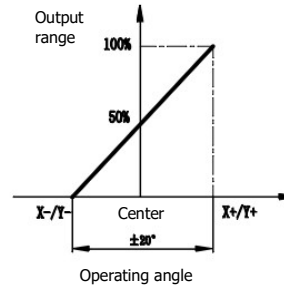
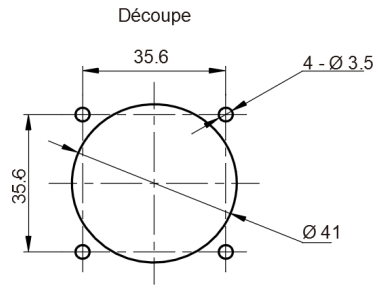
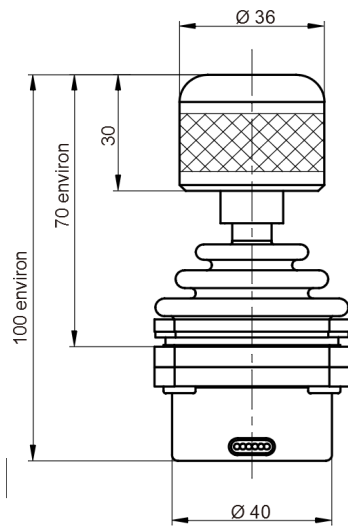
- 1, 2 or 3 axis
- Contactless sensors (Hall Effect)
- Protection grade IP65
- Power supply :5VDC or 9-36 VDC(optional)

## Electrical specification

Input voltage	5 V $\pm$ 0,5 V
Current consumption (no load, Power supply 5V)	2 axes : 22mA, 3 axes 33mA
Output signal (Power supply 5V)	0-5V ( $\pm$ 2%) or 0,5-4,5V ( $\pm$ 2%)
Output voltage at center position	2,5V $\pm$ 0,1V
Load resistance	10 k $\Omega$
Dielectric strenght	1 min / 500 VAC
Insulation resistance	> 1000 M $\Omega$ / 500 VDC
Overvoltage protection (power supply 5V)	20 VDC max
Reverse polarity protection (power supply 5V)	-10 VDC max
EMS	10 V/m (80 Mhz-1 GHz / 1 kHz 80 %)

## Mechanical specifications

Operating angle	XY : approx 20 °, Z : approx $\pm$ 30 °
Return	Spring return
Operating force	Approx 3 to 6 N
Maximum allowable force	< 300 N
Mechanical life expectancy	Approx 5 000 000
Operating temperature	-30 ... +70 °C
Storage temperature	-40 ... + 85 °C
Weight	Approx 120 g
Protection grade	IP65



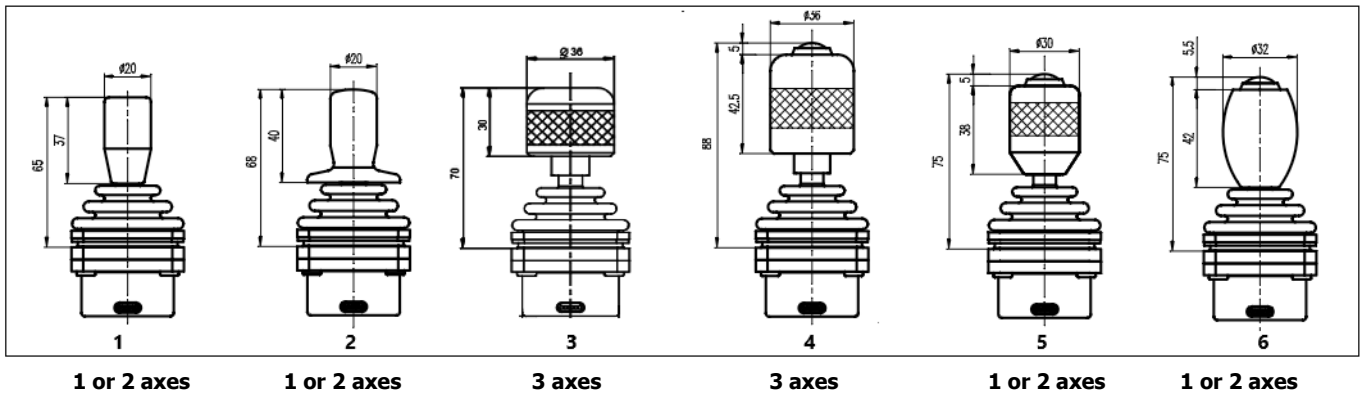
### Wiring 1 BP ( Wire 150 mm, AWG24 )

Red	Black	White	Yellow	Grey	Green	Green
+5V	0V	X	Y	Z	BP	BP

### Wiring 2 BP ( Wire 150 mm, AWG24 )

Red	Black	White	Yellow	Grey	Green + label "COM"	Green + label "BP1"	Green + label "BP2"
+5V	0V	X	Y	Z	BP	BP	BP

\*Cable length : 150 mm



1 or 2 axes

1 or 2 axes

3 axes

3 axes

1 or 2 axes

1 or 2 axes

### Ordering code

TRC	3	0	1	1	1	1	1
	Axis 1 = Y 2 = XY 3 = XYZ	Limiters 0 = Round 1 = 1 axis 2 = Square	Rubber cover	Spring return	Handle type 1 2 3 4 5 6	Output range 1 = linear 2 = With neutral zone (only for 1 axis)	Power supply/output 1 = 5VDC, 0-5V 2 = 5VDC, 0,5-4,5V 3 = 9-36VDC, 0-5V 4 = 9-36VDC, 0,5-4,5V 5 = 5V, USB output