ChenGong HJ70 Hall Effect Joystick

Dual-axis hand grip joystick with deadman and rocker switch

EHR ELEKTRONIK VERSION | DATASHEET

Key features of the EHR version

- Supply voltage 9-30V DC
- Signal output 0.5V - 2.5V - 4.5V per axis
- Contactless hall-effect sensing, dual-axis (2AC)
- Arbitrary direction operation, spring return
- Deadman switch on the grip
- Rocker switch (left / right) on top
- Colour-coded wire connection
- IP65 above the mounting flange



Electrical data (EHR version)

Supply voltage	9-30V DC
Sensing	Hall effect, contactless
Axes	2 (X/Y), arbitrary direction
Signal output	0.5V - 2.5V - 4.5V per axis
	(2.5V = centre position)
Linearity tolerance	< ±0.2V
Switches	Deadman, rocker L/R
Connection	Colour-coded wires

Mechanical and environmental data

Travel angle	±20°
Operating type	Spring return
Breakout force	5 N
Operating force (max.)	11 N
Max. allowable force	> 300 N
Expected life	> 2 million cycles
Weight	450 g (without handle)
Operating temp.	-30 °C ... +70 °C
Storage temp.	-40 °C ... +85 °C
Protection	IP65 (above the flange)

Wiring (colour / function)

Grey	Y-axis (left and right)
Yellow	X-axis (left and right)
Blue	Common terminal of rocker switch
Purple	Deadman switch
Orange	Deadman switch
Black	Rocker switch (left)
Red	Rocker switch (right)
White	Power supply (9-30V DC)
Brown	0V

Mounting

Mounting	Panel, 4 x 10-32 screws
Panel opening	62.8 x 69.1 mm
Hole spacing	65 x 71 mm, Ø5.2 mm
Overall height	205 mm
Flange	85 x 85 mm
Typical use	Aerial work platforms, cranes,
	loaders, forklifts, excavators