STANDARD JOYSTICK MJ-4K

......



The use of contactless Hall technology in this joystick is recommended, if only limited installation space is available or the application is subject to high vibration. The MJ-4K 2-axis joystick fulfils all these requirements. The trusted durability of the MJ-xx joystick series is also guaranteed with the MJ-4K as is the proven reliability.

The applications are vast and range from rehabilitation equipment and automation technology to construction equipment and marine applications.





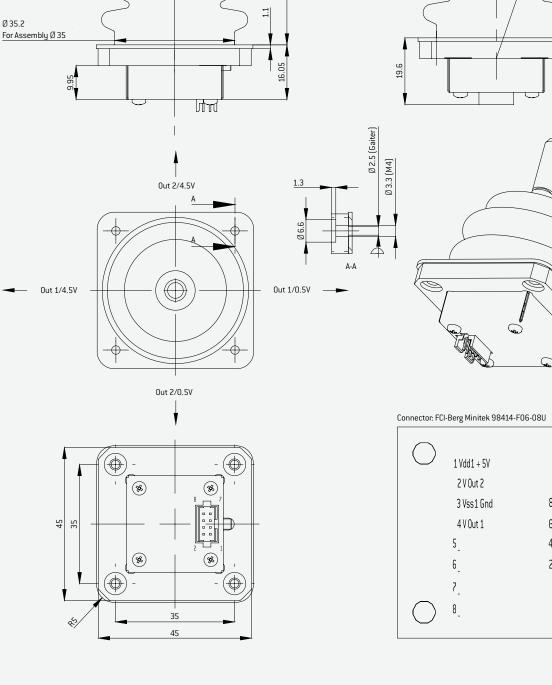
Operational voltage5 V ± 0,5 VOutput signal0,5 4,5 VLinearity± 3%Deflection angle, el.± 19°Power consumption< 20 mA	ELECTRICAL SPECIFICATIONS	
Linearity ± 3% Deflection angle, el. ± 19° Power consumption < 20 mA Max. output current ± 8 mA Resolution 16 bit Option Redundant output signal Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4	Operational voltage	$5V\pm0,5V$
Deflection angle, el. ± 19° Power consumption < 20 mA Max. output current ± 8 mA Resolution 16 bit Option Redundant output signal Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Output signal	0,54,5V
Power consumption < 20 mA Max. output current ± 8 mA Resolution 16 bit Option Redundant output signal Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Linearity	± 3%
Max. output current ± 8 mA Resolution 16 bit Option Redundant output signal Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Deflection angle, el.	\pm 19°
Resolution 16 bit Option Redundant output signal Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Power consumption	< 20 mA
Option Redundant output signal Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Max. output current	\pm 8 mA
Electrostatic discharge BS EN 61000-4-2 Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Resolution	16 bit
Radio interference BS EN 61000-4-3 High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Option	Redundant output signal
High-frequency interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Electrostatic discharge	BS EN 61000-4-2
interfering signals BS EN 61000-4-4 Conducted interfering signals BS EN 61000-4-6	Radio interference	BS EN 61000-4-3
signals		BS EN 61000-4-4
Radiated emission EN 55016-2-3:2010+A1:2010		BS EN 61000-4-6
	Radiated emission	EN 55016-2-3:2010+A1:2010

Specifications are subject to change without notice. * Other values on request.

MECHANICAL SPECIFICATIONS	S
Service life	5 million cycles
Deflection angle, mech.	± 19°
Operating force	3,5 N typically *
Gate shape	Circular
Centre position tolerance	± 1°
Impact strength	100 N
ELECTRICAL CONNECTION	
	FCI Minitek 98414
AMBIENT CONDITIONS	
Storage temperature	−40°C+85°C
Operating temperature	−2570°C (opt. −4085°C)
Protection class (above mounting flange)	IP 65
MATERIALS	
Basa	Aluminium

Base	Aluminium
Bearing	Stainless steel/plastic

MJ-4K Type MJ-4K XY: Hall 0.5...4.5V Item number E060200408 (2-axis)



 $0.7^{+0.1}_{+0.05}$

[22]

[51.4]

16.8

DRAWINGS FOR MJ-4K

© www.metallux.de 01/2014

<u>Ø6.35</u>

Ø 5

19° Round Gate

8

6

4 (

2

5

3