DIGITAL 1- AND 2-AXIS INDUSTRIAL JOYSTICK MJ-2K CP OM



The MJ-2K series joysticks are also available with digital output signals. Mechanical detents provide tactile feedback. The galvanized isolated directional contacts provide maximum operating reliability for the control of crane systems on factory floors or on construction sites. Despite their robustness, the joysticks are very light and ergonomically designed for comfortable operation.

FEATURES

- Long service life
- Robust design

Lompact

- Conductive plastic technology
- **APPLICATIONS**
 - rial work platform
 - mote controls
- Forklift truck
 - Hydraulics





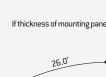


ELECTRICAL SPECIFICATIONS				
Switching current	5 mA at 5 V *			
Versions	Digital 1- to 4-stage (1-0-1 to 4-0-4)			
Deflection angle, el.	4 x 6,5°*			
Zero position switch per axis	< ± 3° open			
Load capacity/axis	0,2 W at 40°			
Operating voltage (VCC)	Max. 30 VDC			
Insulation resistance	$1\text{G}\Omega$ at 500 VDC			
Dielectric strength	2000 V			
MECHANICAL SPECIFICATIONS				
Service life	> 3 million cycles			
Deflection angle, mech.	See drawing			
Operating force	5 N typically			

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

Square, soft cross guide		
$\pm 1^{\circ}$		
100 N		
Handle with Gaiter		
Outside mounting (OM)		
−40°C+85°C		
−25°C +70°C		
IP 66		
Aluminium		
Stainless steel / plastic		
12-pin Hirose plug		
M2.5x16 with 3mm mounting plate, mounting ring. Select screw length to match plate thickness.		

MJ-2K CP (CONDUCTIVE PLASTIC) DIGITAL OM					
Type	MJ-2K CP X: 0 Y: 4-0-4 0M Hirose 12-pin	Type	MJ-2K CP XY: 4-0-4 DS series IB 0M Hirose 12-pin		
Item number	E060200421	Item number	E060200397		
Type	MJ-2K CP XY: 4-0-4 0M Hirose 12-pin	Connection cable	MJ-2K Hirose 12-pin (ws) LiYv 0.14mm_500mm		
Item number	E060200398	Item number	Z301000512		
MJ-2K CP (CONDUCTIVE PLASTIC) ANALOGUE OM/MECHANICAL DETENTS					
Type	MJ-2K X:0 Y: 4-0-4 5K MC 1-0-1 0M Hirose 12-pin	Type	MJ-2K X:0 Y: 5-0-5 5K MC 1-0-1 0M Hirose 12-pin		
Item number	E060200450	Item number	E060200451		
Type	MJ-2K XY: 4-0-4 5k MC 1-0-1 0M Hirose 12-pin	Type	MJ-2K XY: 5-0-5 5k MC 1-0-1 0M Hirose 12-pin		
Item number	E060200402	Item number	E060200443		
Type	MJ-2K XY: 4-0-4 5k MC 1-0-1 DS series IB 0M Hirose 12-pin	Connection cable	MJ-2K Hirose 12-pin (ws) LiYv 0.14mm_500mm		
Item number	E060200420		7301000512		



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26.0°

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27.0

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0403 00××× W1-3K1X70 4-0-4 60

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26.0°

Ø 17.0

Male Connector HIROSE No.: 543-0041-7-01 pitch: 2.0/12-pole (black)

02.6[4x]

4-0-4

E0403 00××× Ξ¥.

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Ø 52.5 Ø 48.0 Ø 39.0 Ø30.0±0.1

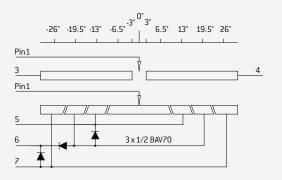
RAMAMANANA

46

45.0°

4-0-4





Contact Resistance Switch < 1k0hm Life CP/PCB > 3 Mio Cycles Anti-interference condensator (100pF) for switch contacts 4-0-4

	-26°	-19.5°	- 13°	-6.5°	0°	6.5°	13°	19.5°	-26°
PIN 3	х	х	x	х					
PIN 4						х	x	x	x
PIN 5	0	x	х				х	х	0
PIN 6	x	x						x	x
PIN 7	х								x
x = electrical Connection/Combination o = optional with Solder-Jumper J1									

21.9

3.0

49.0

41.0/min. depth for mounting

32.0

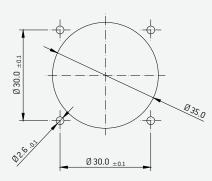
Ø 30.0 ±0.1

MOUNTING HOLES FOR MJ-2K AND MJ-3K



Mounting, Technology and Options

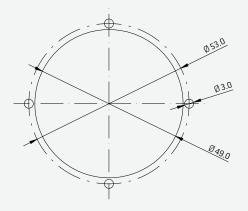
MOUNTING HOLE MJ-2K OM



Dimension Tolerance DIN ISO 2768-m

If thickness of mounting panel/housing is 3mm thickness, following screw is to be used: Mounting Screw Type for example: M2,5x16 DIN7985 (4x) /H/Z/TX Material: Steel galvanized/A2(stainless). Length of screw has to be changed accordingly to mounting panel/housing thickness, to avoid damages to the gaiter!





Dimension Tolerance DIN ISO 2768-m

If thickness of mounting panel/housing is 3mm thickness, following screw is to be used: Mounting Screw Type for example: M3x10 DIN7985 (4x) /H/Z/TX Material: Steel galvanized/A2(stainless). Length of screw has to be changed accordingly to mounting panel/housing thickness.

KEY TECHNOLOGY / OPTIONS	SHORT FORM
Technology	
Conductive plastic	CP
Membrane sensor	MTP
Hall-Effect	Hall
Options	
Square platform	MJ-2K
Circular platform	MJ-3K
Grip height 55 (only MJ-3K)	55
Grip height 65 (only MJ-3K)	65
Center tap	MC
Dead man switch outside	DS series IB
Dead man switch (microswitch-inside)	DS
Cross gate	CG
Gaiter assembled from "outside" with respective mounting ring; IP 66	ОМ
Brake stepless – Put and Stay	BRS
Brake respective step – max. 2-0-2	BR 2-0-2
Circular deflection: 19,5°	30
Soft control	SC
No guiding	NG