MKF-JS91

Mate Industrial Joystick, Hall effect, 3-axis, Panel Mounted



DESCRIPTION

Based on ergonomic principles, modeling small and operation comfortable.

Fingertip operation, Spring return.

three-axis large operating angle in any direction.

handle top with dual button at most.

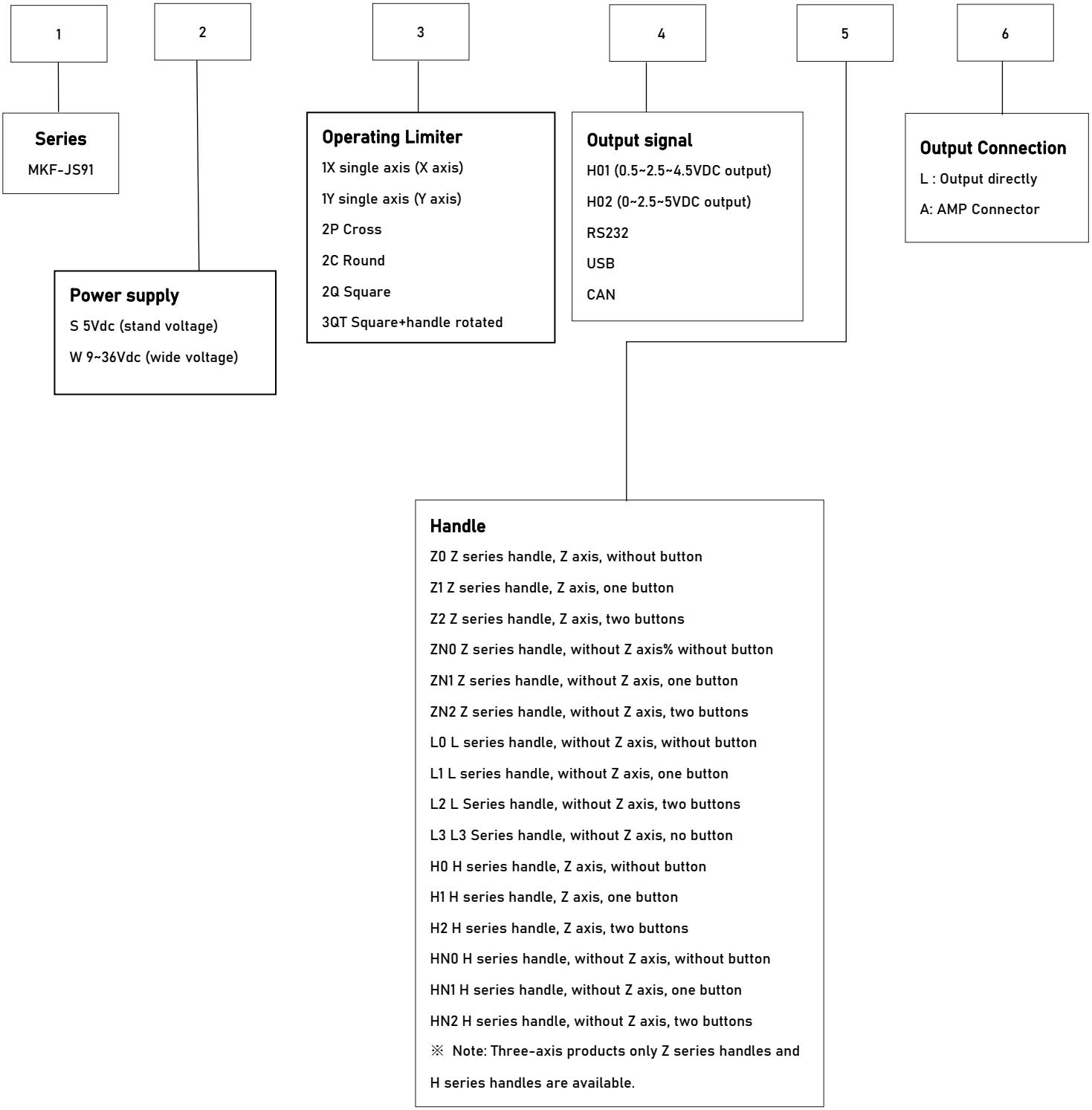
RS232 or USB connector output is selectable.

SPECIFICATION

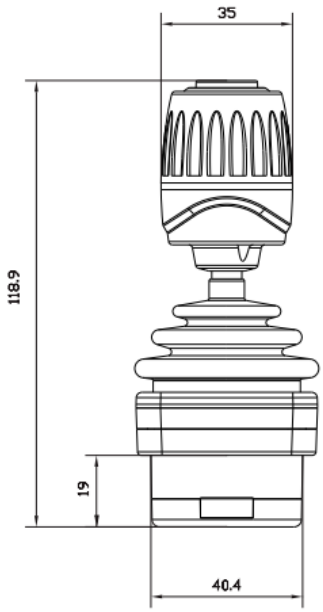
Travel angle	about +28°(XY axis)about +42°(Z axis)
Operating type	Spring return
Break Out force	3N
Operating force (max)	8N
Maximum allowable force	>300N
Expected life	>2Million (XY axis) >2Million (Z axis)
Weight	about 143.5g
Operating temperature	-30°C~ +70°C
Storage temperature	-40°C~ +85°C
Protection level	IP65 (Above the flange)
Power supply	5+0.5Vdc (standard voltage) 9~36Vdc (wide voltage)
Maximum supply current	22mA (XY axis) 33mA (Z axis)
Maximum allowable overload voltage	20vdc
Reverse maximum allowable voltage	-10Vdc
load resistance	10KΩ
Center output voltage	2.5+0.1Vdc
Output linearity tolerance	<+0.2V

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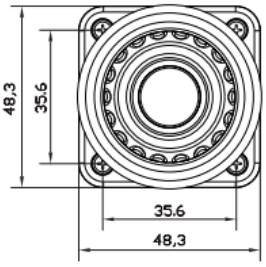
Order No:


1
2
3
4
5
6
Series
MKF-JS91
Power supply
S 5Vdc (stand voltage)
W 9~36Vdc (wide voltage)
Operating Limiter
1X single axis (X axis)
1Y single axis (Y axis)
2P Cross
2C Round
2Q Square
3QT Square+handle rotated
Output signal
H01 (0.5~2.5~4.5VDC output)
H02 (0~2.5~5VDC output)
RS232
USB
CAN
Output Connection
L : Output directly
A: AMP Connector
Handle
Z0 Z series handle, Z axis, without button
Z1 Z series handle, Z axis, one button
Z2 Z series handle, Z axis, two buttons
ZN0 Z series handle, without Z axis% without button
ZN1 Z series handle, without Z axis, one button
ZN2 Z series handle, without Z axis, two buttons
L0 L series handle, without Z axis, without button
L1 L series handle, without Z axis, one button
L2 L Series handle, without Z axis, two buttons
L3 L3 Series handle, without Z axis, no button
H0 H series handle, Z axis, without button
H1 H series handle, Z axis, one button
H2 H series handle, Z axis, two buttons
HN0 H series handle, without Z axis, without button
HN1 H series handle, without Z axis, one button
HN2 H series handle, without Z axis, two buttons
※ Note: Three-axis products only Z series handles and
H series handles are available.

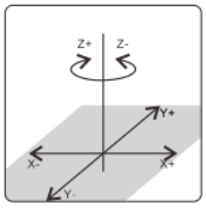
外形尺寸 Dimensions

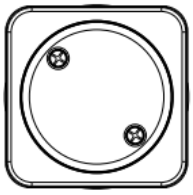


Front view



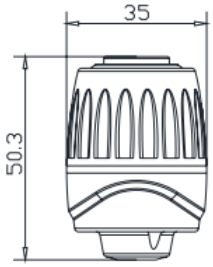
Top view



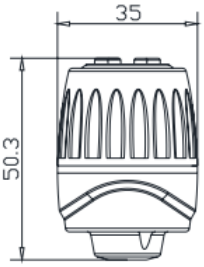


Bottom view

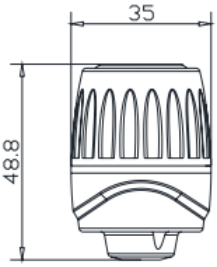
手柄上端 Handle



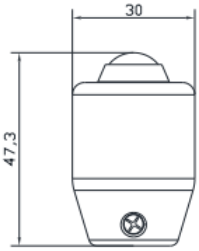
Z1 handle
(z axis)



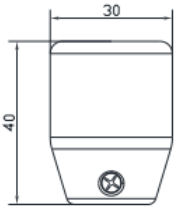
Z2 handle
(z axis)



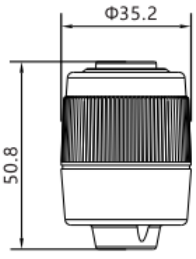
Z0 handle
(z axis)



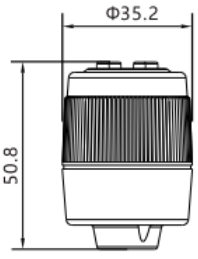
L1 handle
(without z axis)



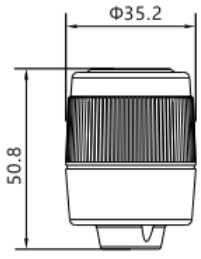
L0 handle
(without z axis)



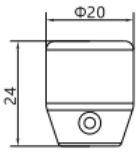
H1 handle
(Z axis)



H2 handle
(Z axis)



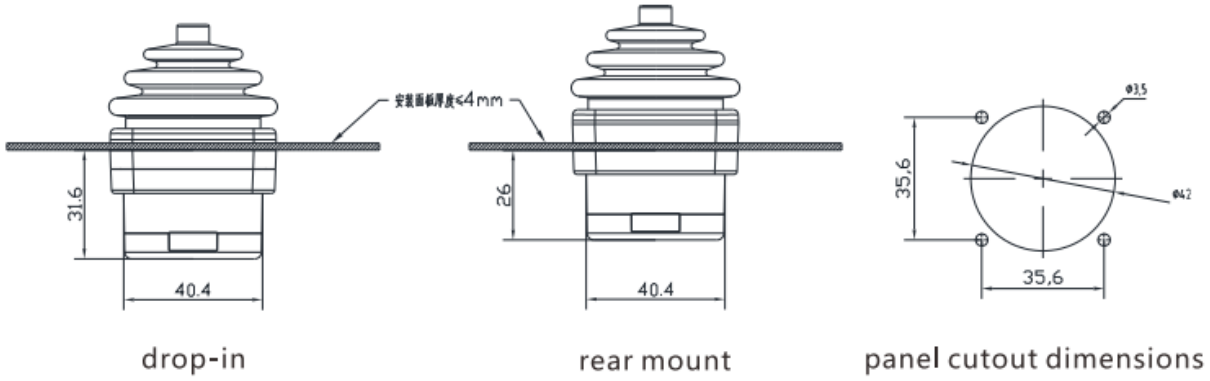
H0 handle
(Z axis)



L3 handle
(without Z axis)

NOTE :
ZN series : The same shape with Z series handle , without Z axis , ZN0、ZN1、ZN2 are derived ;
HN series : The same shape with H series handle , without Z axis , HN0、HN1、HN2 are derived ;

机械安装 Product Installation



drop-in　　rear mount　　panel cutout dimensions

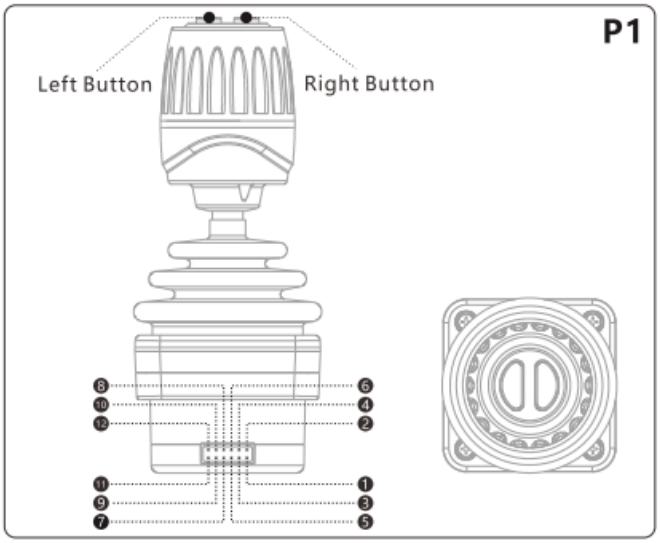
*NOTE : With M3*14 Phillips pan head machine screws

电气安装 Electrical Connections

output harness type 1 (default)

8-Pin Connector

Pin	Hall	Colour
1	GND	black
2	DC5V	red
3	X out	yellow
5	Y out	green
7	Z out	blue
9	Left button	Brown
10	Button com	White
11	Right button	Purple

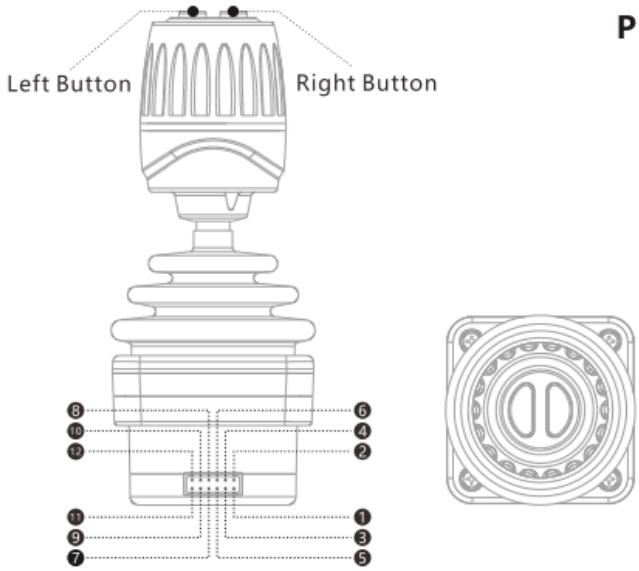


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output harness type 2 (without line)

12-pin connector		
Pin	Hall	Colour
1	GND	black
2	NA	NA
3	AY out	yellow
4	AX out	yellow/white
5	BY out	Green
6	BX out	Green/white
7	AZ out	Blue
8	BZ out	Black/white
9	Left button	Brown
10	Button com	white
11	Right button	Purple
12	DC5V	Red

P2



USB

USB
USB Male Type A Connector



P3

RS232 (with RS232 output PCB)

8-Pin Connector		
Pin	Hall	Colour
1	GND	black
2	VCC	red
3	X out	yellow
5	Y out	green
7	Z out	blue
9	Left button	Brown
10	Button com	White
11	Right button	Purple

P4

