Valid from August 2025

PRODUCT CODES JOYSTICKS

Explanation of Product Codes

Each product code begins with the model name.
After that, for each axis, the sensor technology, the interface, and the mechanical option are specified. This is followed by the limiter, the electrical connection, the handle design, and the handle function.

Example:
MJ-F12_XP02_A01_YP02_A01_Z000_A00_B01_C02_D07_E01

MJ-F12	Model name MJ-F12
XP02_A01	X-axis with potentiometer 0 – 100 % with directional switch and center contact; spring return to center
YP02_A01	Y-axis with potentiometer 0 – 100 % with directional switch and center contact; spring return to center
Z000_A00	No Z-axis
B01	Square limiter
C02	Connector
D07	Handle with rubber boot, closed
E01	Push button / Deadman switch, internal

Model name MJ-	
T	Thumb
F	Finger
H	Hand

Axes	
X	X-axis
Y	Y-axis
Z	Z-axis

Sensor technology	
0	None
H	Hall
P	Potentiometer
M	Membrane potentiometer

Interface	
00	None
01	Potentiometer 0 – 100 % with directional switch
02	Potentiometer 0 – 100 % with directional switch and center contact
03	Potentiometer 0 – 100 % redundant
04	Potentiometer 0 – 100 % redundant, center contact
05	Potentiometer 0 – 100 % reverse redundant
06	Potentiometer 0 – 100 % reverse redundant, center contact
07	Potentiometer 10 – 90 % with directional switch
08	Potentiometer 10 – 90 % with directional switch and center contact
09	Potentiometer 10 – 90 % redundant
10	Potentiometer 10 – 90 % redundant, center contact
11	Potentiometer 10 – 90 % reverse redundant
12	Potentiometer 10 – 90 % reverse redundant, center contact
13	Potentiometer for detent steps, digital
14	Potentiometer for detent steps, center contact, digital
15	Potentiometer Gray Code and center contact
16	Hall ratiometric 0.5 – 4.5 V
17	Hall ratiometric 0.5 – 4.5 V, redundant
18	Hall ratiometric 0.5 – 4.5 V, reverse redundant
19	SPI
20	CANOpen
21	SAE J1939
22	SENT
23	Profibus
24	PWM
25	Membrane potentiometer
26	Potentiometer 7.5 – 92.5 % with directional switch
99	Custom

Mechanical options	
A00	None
A01	Spring return to center
A02	Spring return to center, reduced operating force
A03	1 detent step, spring return to center
A04	2 detent steps, spring return to center
A05	3 detent steps, spring return to center
A06	4 detent steps, spring return to center
A07	5 detent steps, spring return to center
A08	Detent step in center, return to center
A09	Detent steps in end positon, return to center
A10	Detent steps in end and center positon, return to center
A11	1 detent step, locking
A12	2 detent steps, locking
A13	3 detent steps, locking
A14	4 detent steps, locking
A15	5 detent steps, locking
A16	Stepless locking
A17	Stepless locking, with detent step in center
A18	Stepless locking, with detent step in end position
A19	Stepless locking, with detent step in end and center position
A99	Custom

Limiter	
B00	None
B01	Square
B02	Square, soft guided feel
B03	Round
B04	Round, soft guided feel
B05	Cross gate
B06	Single axis
B07	Single axis, Y locked, X active
B08	Single axis, X locked, Y active
B99	Custom

Electrical connection	
C00	None
C01	Solder connection
C02	Connector
C03	Cable
C04	Cabe with connector
C99	Custom

Handle design	
D00	No handle, only base
D01	MJ-T10 shape A
D02	MJ-T11 shape A
D03	MJ-F03
D04	MJ-F11
D05	MJ-F16 shape A
D06	MJ-F16 shape B
D07	Handle with rubber boot, closed
D08	Handle with rubber boot, open
D09	Handle MJ-H10
D10	Z-axis with rubber ring
D11	Z-axis with ribs
D99	Custom

Handle function	
E00	None
E01	Push button / Deadman switch, internal
E02	Push button / Deadman switch, external
E03	LED Illumination
E04	Vibration
E05	LED Illumination and vibration
E06	Configurable control panel
E99	Custom