General features



- Direct piloting of four proportional solenoid valves
- Output for venting valve
- Start-up safety control digital input
- Same power supply for 12/24 VDC systems
- With BPEterminal custom software is possible to configure all commercial joysticks and, for every movement, to set: the PWM frequency, the minimum and maximum currents, the proportional solenoid valve opening and closing ramps
- Waterproof, plastic, compact body (40% fiber glass reinforced PBT)
- Electrical connection with FCI SICMA2

On request:
- CAN bus interface
- PL d (EN 13849-1) output for venting valve
- Two customizable digital inputs

Typical fields of application:
bancable hydraulic valves for industrial and mobile applications.

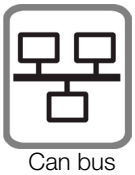
Note:
The user/installer is responsible for evaluating the values and, thus, the safety of the application.



From 9 to 33 VDC



Protection Grade IP67


Can bus connection



Wide temperature range



PWM


EASY PC SETUP with BPE terminal

Technical Data

Power supply	9 to 33 VDC	Protected against polarity inversion
Analog inputs for joystick	four 0 to 5 VDC or four 0 to10 VDC or	
four 4(1) to 20 mA	Protected against short circuits and operator errors	
Digital inputs	1 + 2 (on request)	1 input only if CAN bus connection is present
ON/OFF digital outputs	-	-
Proportional PWM outputs	4x2	Positive. Programmable from 70 to 250 Hz.
IMAX = 2 A. Protected against short circuits	2	Positive. IMAX = 3 A. Protected against short circuits (1)
Digital outputs	1	Positive. IMAX = 3 A. Protected against short circuits (2)
CAN bus connection	1	On request
RS-232 connection	1	AMP Superseal 1.5 series 3P connector (282105-1)
Operating temperature	from -40 to +70 °C	-
Maximum weight	0.40 kg	-
Housing material	40% fiberglass reinforced PBT	-
Coating	Two components polyurethane	-
Standard protection grade	IP67	-
CE Conformity	EMC Directive: 2014/30/EU	
EMC: Immunity | Emission	EN 61000-6-2, EN61000-6-3	Heavy industrial
Vibration resistance: Sinus	EN 60068-2-6: 5 g, 10 to 150 Hz	-
Shock resistance: Shock	EN 60068-2-27: 30 g, 6 ms	-
MTTFd	EN 13849-1: ≥ 100 years	-

(1) Or 0 to 20 mA, without range check
(2) Available and programmable on request in PLd (EN 13849-1)

Ordering Code

1	2	3	4	5
Digital management	Output type	Input type	Control valves	PWM frequency
MAV4211	W	V3	4	150

1

Digital control	
MAV4211	Proportional solenoid valve digital control

2

Output type	
W	PWM outputs for proportional valves

3

Input type	
V3	Analog voltage input 0.5÷4.5 Vdc (rest position: 2.5V)

4

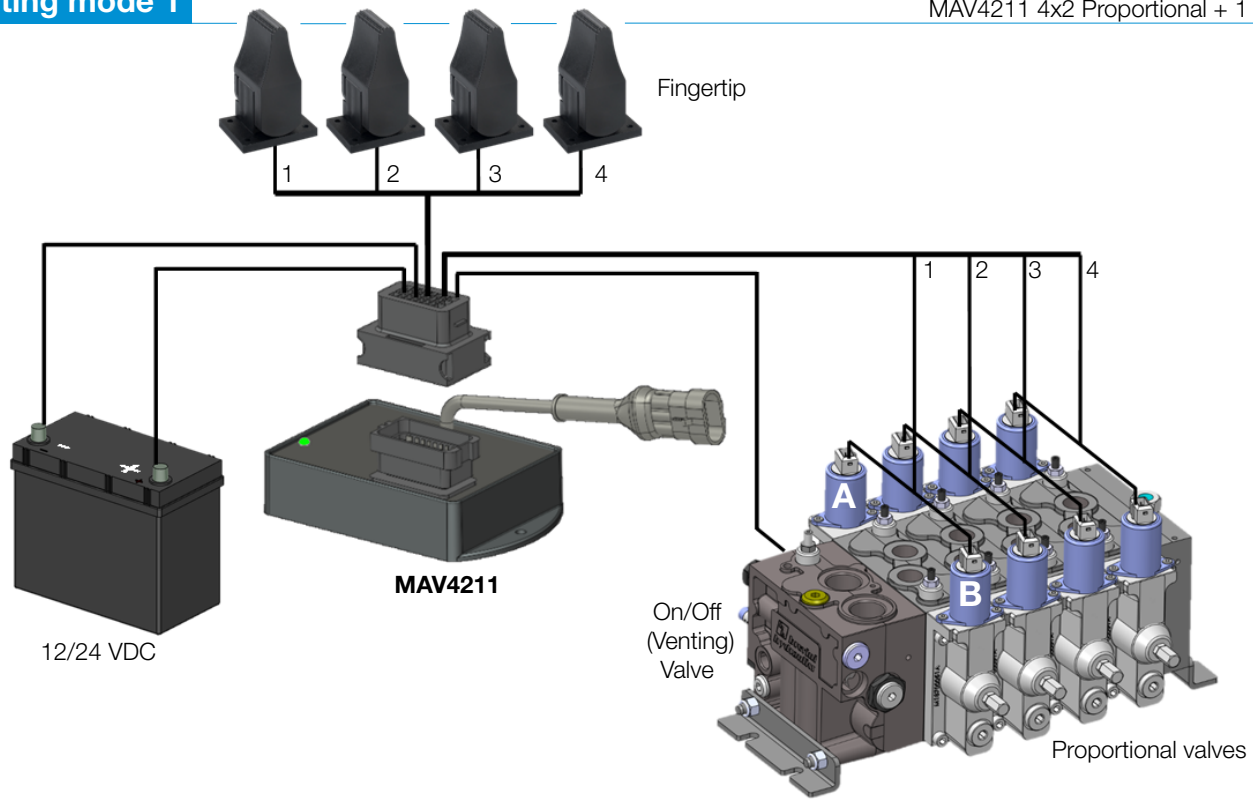
Control valves	
4	Four double elements

5

PWM frequency	
150	Default value, adjustable via configuration software (range 70 ÷ 250 Hz)

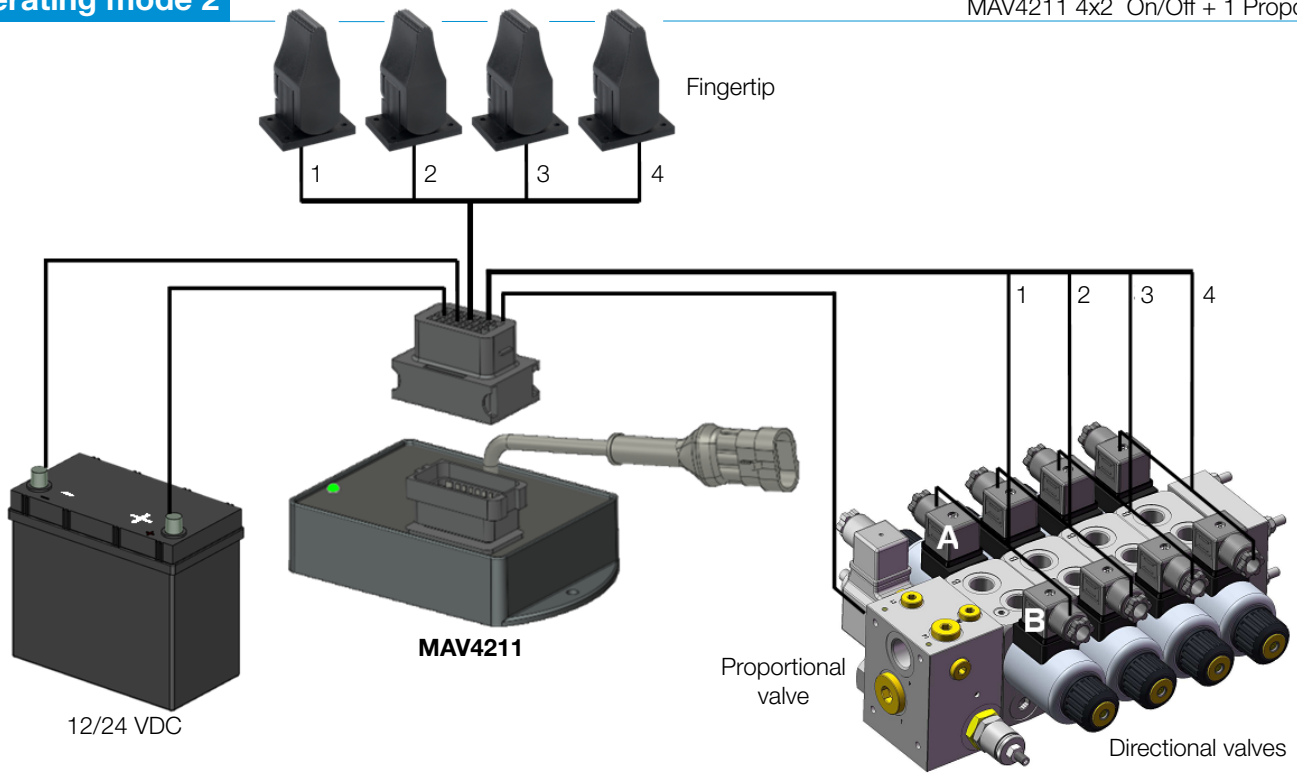
Operating mode 1

MAV4211 4x2 Proportional + 1 On/Off



Operating mode 2

MAV4211 4x2 On/Off + 1 Proportional



Dimensions [mm]

