

Multi-axis Controller

V8 / VV8



The V8/VV8 is a robust joystick commonly used in electro-hydraulic applications. With many output options including voltage, amperage and switch contacts and many grip options the V8 / VV8 series is hugely customisable.

Technical data

Mechanical life V8	10 million operating cycles
Mechanical life VV8	20 million operating cycles
Operation temperature	-40°C to +85°C
Degree of protection	up to IP54



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		VV8	S5	P	T	-2RP	Example +3ZP	-B	-A05 P184	+A050 P184	E9012	-X
Basic unit												
VV8	2-axis, reinforced version											
Control-handle extended												
	Standard 160 mm*											
S5	-20 mm											
S8	+20 mm											
*Only available in combination with a handle!												
Gate												
P	Cross gate											
P X	Special gate											
Grip / palm grip												
T	Dead man											
Axis 1												
2	Contacts											
R	Friction brake											
P	Potentiometer											
Axis 2												
3	Contacts											
Z	Spring return											
P	Potentiometer											
Cover housing												
B	Cover housing											
Description axis 1 (direction 1-2)												
A050	Arrangement MSP21-0											
P184	Potentiometer T301 2 x 5 kOhm											
Description axis 2 (direction 3-4)												
A05	Arrangement MSP21											
P184	Potentiometer T301 2 x 5 kOhm											
Interface (description see on the following pages)												
E9012	Potentiometer output for proportional valve PVG32											
Special model												
X	Special / customer specified											

Technical details may vary based on configuration or application! Technical data subject to change without notice!

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Combination possibilities with our grips



		VV8	S5	P	T	-2 R P	+	3 Z P	-B	-	A05 P184	+	A050	P184	E9012	-	X
Basic unit																	
V81	1-axis																
V8	2-axis																
reinforced version																	
VV81	1-axis																
VV8	2-axis																
Control-handle extended																	
S5	-20 mm																
S8	+20 mm																
Gate																	
P	Cross gate																
P X	Special gate																
Grip/ palm grip																	
	Knob <i>(included in basic unit!)</i>																
M	Mechanical zero interlock																
MH	Mechanical zero interlock + signal contact																
T	Dead man																
H	Signal button																
D	Push button																
DV	Flush push button																
B...	Palm grip B... <i>(see page palm grip 170)</i>																
Axis 1: direction 1-2																	
1	1 contact	Standard contact - arrangement see page 151															
2	2 contacts	e.g.															
3	3 contacts	A98		MS0		Zero position contact											
		A05		MS21		Direction contacts											
		A050		MS21-0		Direction contacts + zero position contact											
Z	Spring return																
R	Friction brake only available with a VV8!																

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(P)	Mounting options for potentiometer			
P	Potentiometer	P181	T301 2 x 0,5 kOhm	I max. 1 mA
		P182	T301 2 x 1 kOhm	I max. 1 mA
		P183	T301 2 x 2 kOhm	I max. 1 mA
		P184	T301 2 x 5 kOhm	I max. 1 mA
		P185	T301 2 x 10 kOhm	I max. 1 mA
		More potentiometers on request!		
H	Hall-Potentiometer	E14811	0,5...2,5...4,5 V / 4,5 V...2,5...0,5	

VV8 S5 P T -2 R P + 3 Z P -B - A05 P184 + A050 P184 E9012 - X

Axis 2: direction 3-4 (not applied for V81/VV81)				
1	1 contact	Standard contact - arrangement see page 151		
2	2 contacts	e.g.		
3	3 contacts	A98	MS0	Zero position contact
		A05	MS21	Direction contacts
		A050	MS21-0	Direction contacts + zero position contact
Z	Spring return			
R	Friction brake only available with a VV8!			
(P)	Mounting options for potentiometer			
P	Potentiometer	P181	T301 2 x 0,5 kOhm	I max. 1 mA
		P182	T301 2 x 1 kOhm	I max. 1 mA
		P183	T301 2 x 2 kOhm	I max. 1 mA
		P184	T301 2 x 5 kOhm	I max. 1 mA
		P185	T301 2 x 10 kOhm	I max. 1 mA
		More potentiometers on request!		
H	Hall-Potentiometer	E14811	0,5...2,5...4,5V/4,5V...2,5...0,5	

VV8 S5 P T -2 R P + 3 Z P -B - A05 P184 + A050 P184 E9012 - X

Cover housing	
B	Cover housing
Interface	
	Potentiometer output
E901	Potentiometer output for proportional valve PVG32
	0,25...0,5...0,75 Us
1	1 axis
2	2 axis
3	3 axis
4	4 axis
Special model	
X	Special / customer specified

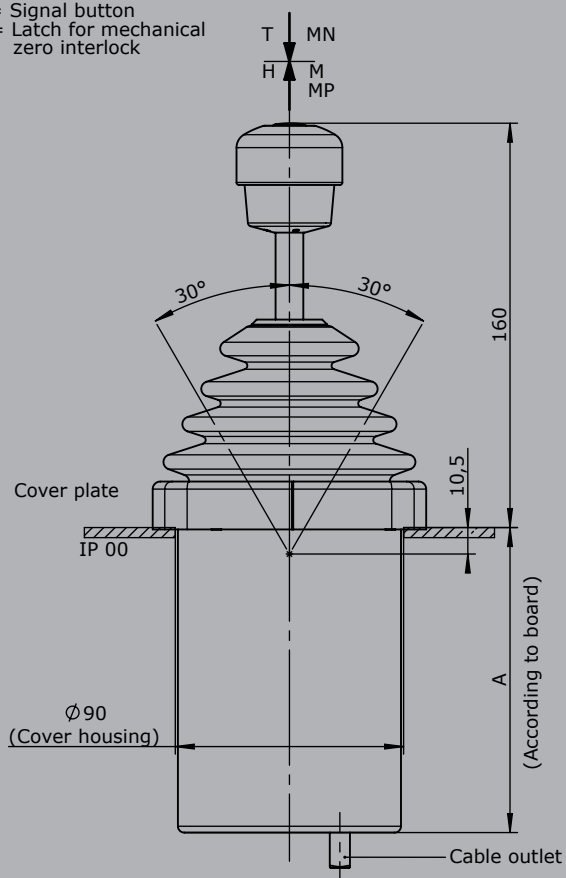
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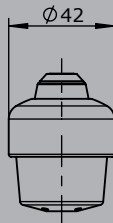


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T = Dead man's button
H = Signal button
M = Latch for mechanical zero interlock

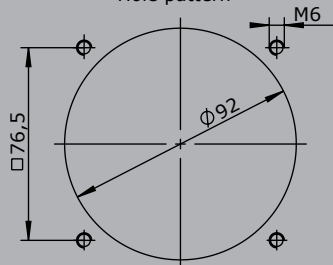
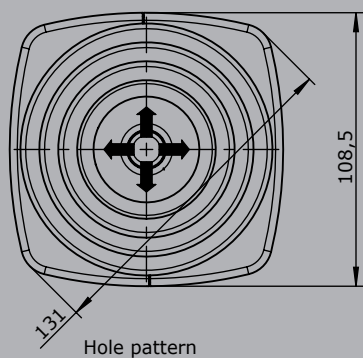
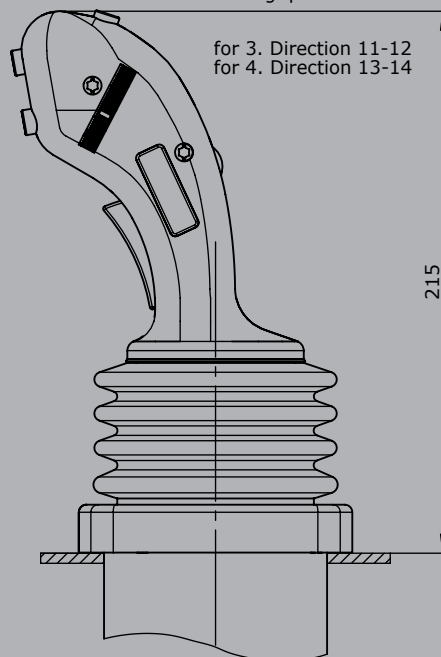


Knob solid
D = Push button



Palm grip B3

for 3. Direction 11-12
for 4. Direction 13-14



Palm grip B25

