

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



	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!

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 (included in basic unit!)																									
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... (see page Palm Grip 154)																									
Axis 1: direction 1-2																										
1	1 contact	Standard contact - arrangement see page 122																								
2	2 contacts	e.g.																								
3	3 contacts	<table><tr><td>A98</td><td>MS0</td><td>Zero position contact</td></tr><tr><td>A05</td><td>MS21</td><td>Direction contacts</td></tr><tr><td>A050</td><td>MS21-0</td><td>Direction contacts + zero position contact</td></tr></table>																A98	MS0	Zero position contact	A05	MS21	Direction contacts	A050	MS21-0	Direction contacts + zero position contact
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!																									

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

(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
		<i>More potentiometers on request!</i>		
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 122		
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
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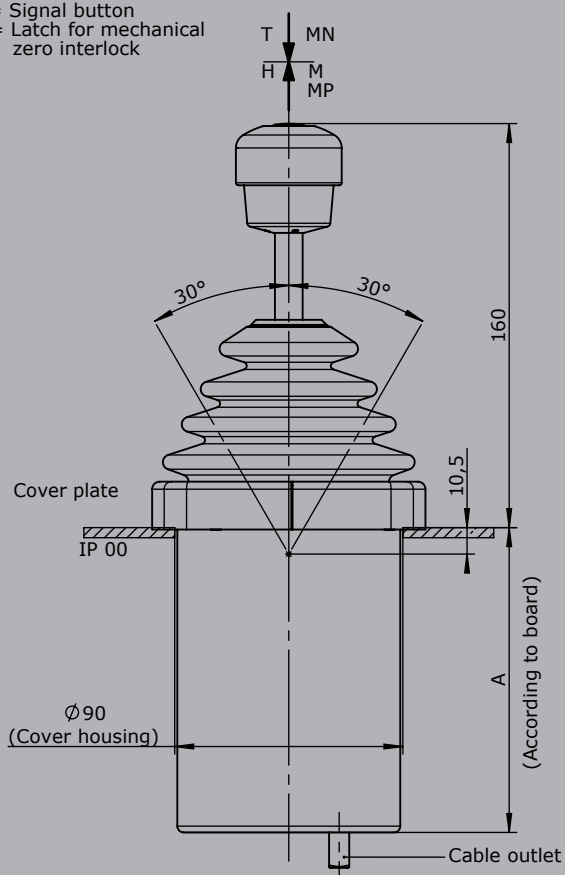
Interface

	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

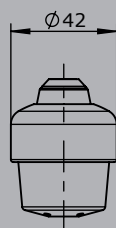
Special model

X	Special / customer specified
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T = Dead man's button
H = Signal button
M = Latch for mechanical zero interlock

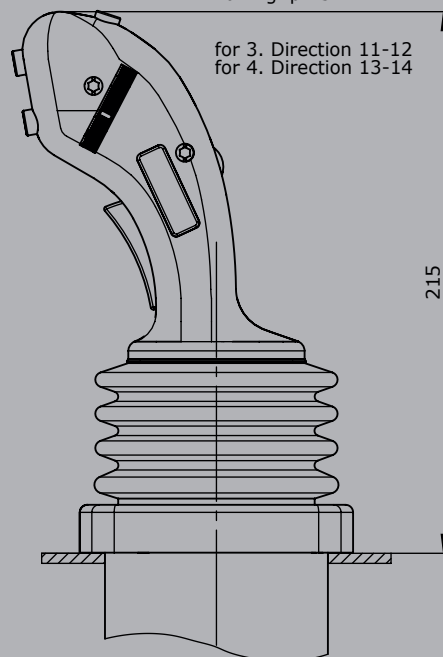


Knob solid
D= Push button



Palm grip B3

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



Palm grip B25

