Multi-axis controller
V8 / VV8

GESSMANN
Industrial Controllers

The multi-axis controller V8/VV8 is avialable in either single-axis or multi-axis options and is a robust controller used commonly in electro-hydraulic applications.
With many output options including voltage, amperage and switch contacts and many handle options the V8 / VV8 series is hugely customisable.
The V8 / VV8 is resistant to oil, maritime conditions e.g. offshore / vessels, UV radiation typically from the sun.

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Technical data

Mechanical life V8	10 million operating cycles
Mechanical life VV8	20 million operating cycles
Operation temperature	-40°C til +60°C
Degree of protection	IP54

Example

VV8	S5	P	T	- 2RP	+ 3ZP	- B	- A05 P184	+ A050 P184	E9012	- X

Basic unit

VV8	2-axis, reinforced version

Control-handle extended

	Standard
S5	-20mm
S8	+20mm

Only available in combination with 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 2x5kOhm

Description axis 2 (direction 3-4)

A05	Arrangement MSP21
P184	Potentiometer T301 2x5kOhm

Interface *(description see on the following pages)*

E9012	Potentiometer output for proportional valve PVG32

Special model

X	Special / customer-specific

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

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Combination possibilities with our handles

B1 p. 129	B2 p. 131	B3 p. 133	B5 p. 136	B6 p. 138	B7 B8 p. 140	B9 p. 142	B10 p. 144	B14 B15 S. 146

B20 p. 148	B22 p. 150	B23 p. 152	B24 p. 154	B25 p. 156	B28 p. 158	B29 p. 160

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

V81	1-axis
V8	2-axis

reinforced version

VV81	1-axis
VV8	2-axis

Control-handle extended

S5	-20mm
S8	+20mm

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 129)*

Axis 1: direction 1-2

1	1 contact	Standard contact - arrangement see page 112		
2	2 contacts	z.B.		
3	3 contacts	A98	MS0	Zero position contact
		A05	MS21	Direction contact
		A050	MS21-0	Direction contact + zero position contact

Z	Spring return
R	Friction brake only possible with VV8!
(P)	Mounting options for potentiometer

P	Potentiometer	P181	T301 2x0,5kOhm	I max. 1mA
		P182	T301 2x1kOhm	I max. 1mA
		P183	T301 2x2kOhm	I max. 1mA
		P184	T301 2x5kOhm	I max. 1mA
		P185	T301 2x10kOhm	I max. 1mA
		More potentiometer on request!		
	Hall-Potentiometer	P43	T1360	0,5...2,5...4,5V/4,5V...2,5...0,5

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

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If both axis identical, it`s enough to describe one axis!

example: ...A05P43 + A05P43 => A05P43

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)*

01	1 contact	Standard contact - arrangement see page 112			
02	2 contacts	z.B.			
03	3 contacts	A98	MS0	Zero position contact	
		A05	MS21	Direction contact	
		A050	MS21-0	Direction contact + zero position contact	

Z	Spring return			
R	Friction brake only possible with VV8!			
(P)	Mounting options for potentiometer			
P	Potentiometer	P181	T301 2x0,5kOhm	I max. 1mA
		P182	T301 2x1kOhm	I max. 1mA
		P183	T301 2x2kOhm	I max. 1mA
		P184	T301 2x5kOhm	I max. 1mA
		P185	T301 2x10kOhm	I max. 1mA
		More potentiometer on request!		
	Hall-Potentiometer	P43	T1360	0,5...2,5...4,5V/4,5V...2,5...0,5

Cover housing

B	Cover housing

Interface

	Potentiometer output		
E901	Potentiometer output for proportional valve PVG32		
	0,25...0,5...0,75Us		
	1	1 axis	
	2	2 axis	
	3	3 axis	
	4	4 axis	

Special model

X	Special / customer-specific

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

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

T — MN
H — M
MP

30°   30°

160

10,5

Cover plate
IP 54
IP 00

A
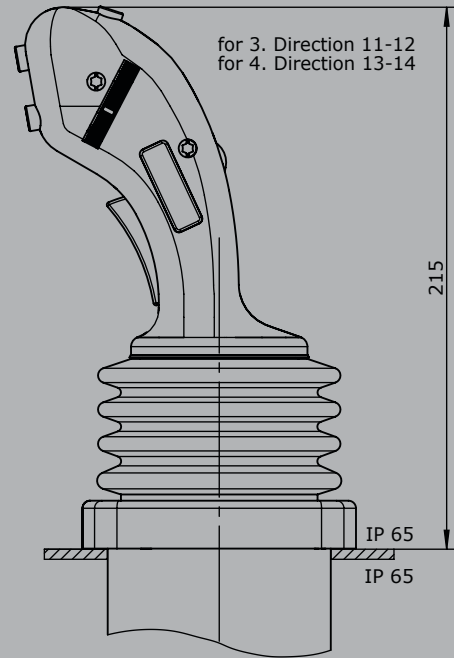(According to board)

Ø90
(Cover housing)

Cable outlet
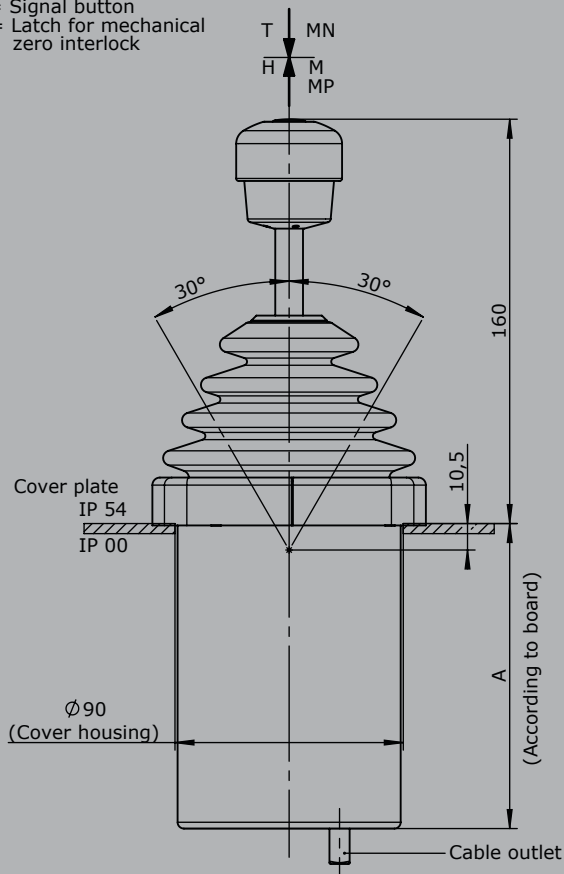
Knob solid
D= Push button

Ø42
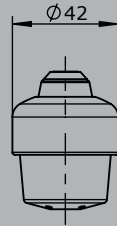
Palm grip B3

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

215

IP 65
IP 65

108,5

131

Hole pattern

M6

Ø92

□76,5

Palm grip B25

225

IP 65
IP 65

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