Multi-axis controller
V14

GESSMANN Industrial Controllers

The multi-axis controller V14 is a robust switching device for remote control and eletro-hydraulic applications.
The modular design enables the switching device to be used universally.
The V14 is resistant to oil, maritime conditions e.g. offshore / vessels, UV radiation typically from the sun.

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Technical data

Mechanical life V14	6 million operating cycles
Operation temperature	-40°C to +60°C
Degree of protection	IP65

Example

V14L	S8	P	T	- 01 Z C	+ 03 R	- A05 C61	+ A110	- X

Basic unit

V14L	2-axis left

Control-handle extended

	Standard
S8	+20mm

**Only available in combination with handle!*

Gate

P	Cross gate

Grip / Palm grip

T	Dead man

Axis 1 (direction 1-2)

01	2 contacts (2A 250V AC15)
Z	Spring return
C	Mechanical encoder

Axis 2 (direction 3-4)

03	6 contacts (2A 250V AC15)
R	Friction brake

Description axis 1 (direction 1-2)

A05	Arrangement MSP21
C61	Mechanical encoder MEC 1-2

Description axis 2 (direction 3-4)

A110	Arrangement MS24-0

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 handles

1

V14L S8 P T - 01 Z C + 03 R - A05 C61 + A110 - X

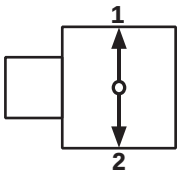
Basic unit	
V14.1L	1-axis left
V14.1R	1-axis right
V14L	2-axis left
V14R	2-axis right

Control-handle extended	
	Standard
S8	+20mm

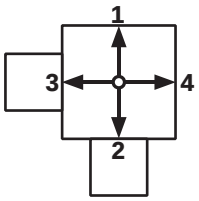
Gate	
P	Cross gate
P X	Special gate

Grip / palm grip	
	Knob 25mm (standard)
M	Mechanical zero interlock
MH	Mechanical zero interlock + signal contact
T	Dead man
H	Signal button
GK1	Knob 42mm
GK1M	Mechanical zero interlock
GK1MN	Mechanical zero interlock (push down)
GK1T	Dead man
GK1H	Signal button
GK1MH	Mechanical zero interlock + signal contact
GK1D	Push button
GK1DV	Flush push button
GS9	Hall-twist grip with spring return
GS9-D	Hall-twist grip with spring return and push button on top
B...	Palm grip B... *(see page palm grip page 147)*

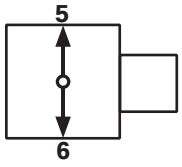
Identification of the installation variants with switching directions:



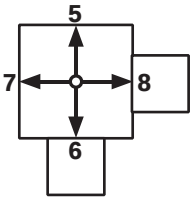
V14.1L



V14L



V14.1R



V14R

**Attention! The multi-axis controller V14 is not suitable for large palm grips (B3, B7/B8, B9...)*

V14L S8 P T - 01 Z C + 03 R - A05 C61 + A110 - X

Axis 1: direction 1-2 left / direction 5-6 right			
	(Standard contacts gold-plated 2A 250V AC15)		
01	2 contacts	Standard contact - arrangement see page 131	
02	4 contacts	e.g.	
03	6 contacts	A05	MS21
		A0500	MS21-00
		A110	MS24-0
		A99 contact - arrangement according customer request	

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

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V14L S8 P T - 01 Z C + 03 R - A05 C61 + A110 - X

Z	Spring return *(included in basic unit!)*			
R	Friction brake			
C	Mechanical encoder	C61	MEC 1-2	
			EA/02-10	I max. 1mA
			Potentiometer track	2x10kOhm
			Direction tack	Arrangement MS26-0
		C62	MEC 1-7	
			EA/10-10	I max. 1mA
			Potentiometer track	2x5kOhm
			Direction track	Arrangement MS26-0-1
		C66	MEC 1-10	
			EA/17-10	I max. 10mA
			Potentiometer track	2x1,5kOhm
			Direction track	Arrangement MS21-0+MS21
		C63	MEC 1-6	
			EA/09-10	
			6 Bit Gray Code	
		C64	MEC 1-6-5	
			ER/36-10	Us=18-30V
			Current output 20...4...20mA	
		C65	MEC 1-6-8	
			ER/36-12	Us=18-30V
			Current output 20...0...20mA	
		C67	MEC 1-6-9	
			ER/36-11	Us=18-30V
			Voltage output 10...0...10V	
H	Hall-Potentiometer	E10311		0,5...2,5...4,5V / 4,5...2,5...0,5V

If both axis identical, it`s enough to describe one axis!
Example: ...A05C61 + A05C61 => A05C61

V14L S8 P T - 01Z C + 03 R - A05 C61 + A110 - X

Axis 2: direction 3-4 left / direction 7-8 right *(not applied for V14.1L and V14.1R)*

See description axis 1!

Special model

X Special / customer specified

1

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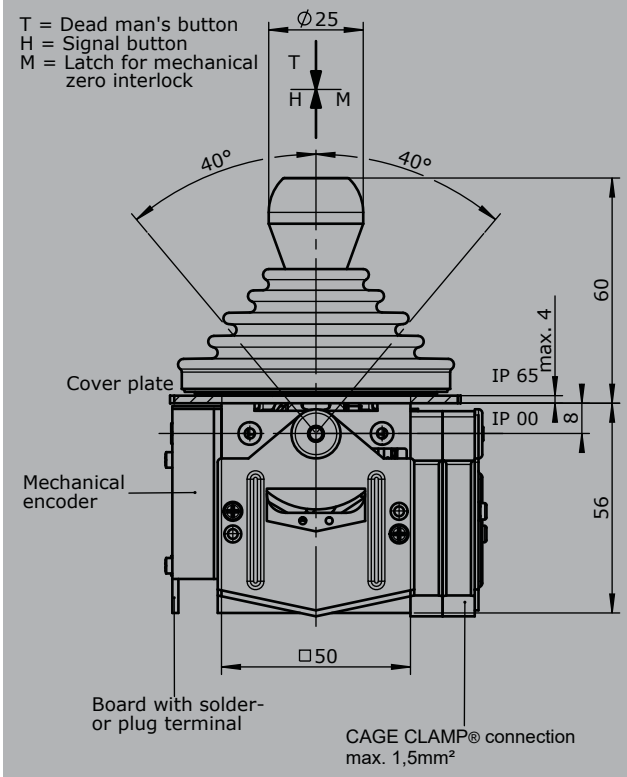

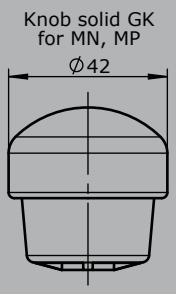

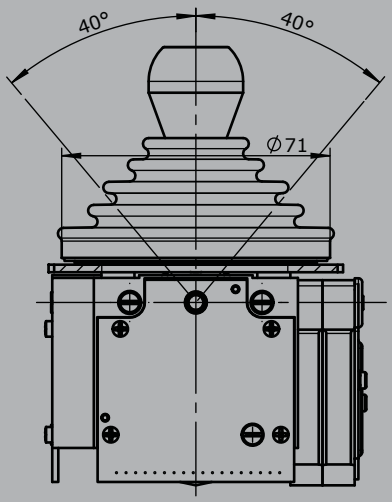

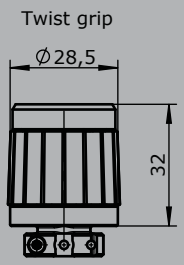

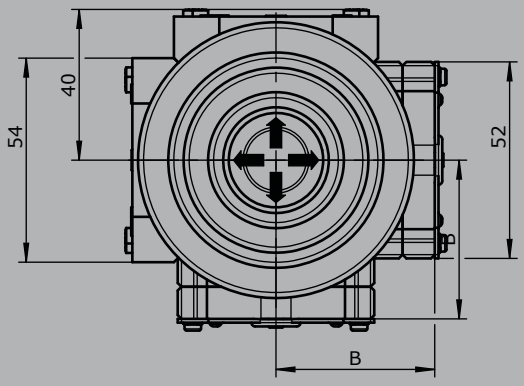

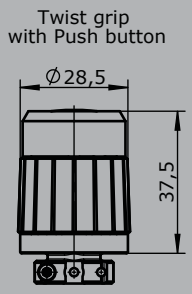

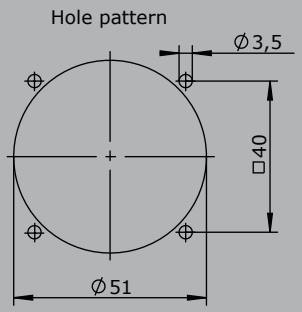

Type	No. of contacts	Dim. B
01	2	36
02	4	45
03	6	54

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