



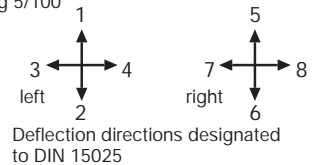
The multi-axis controller V8 is a rugged switching device according IEC 947-5-1 EN 60947 DIN VDE 0660-200 for electro-hydraulic applications. The modular design enables the switching device to be used universally. The V8 is resistant to oil, maritime climate ozone and UV radiation.

**Contact complement 0,5 A 110 V AC 15 res. 1,5 A 24 V DC 13**  
**I min > 0,2 mA 2 V DC 12 Gold plated for max. load of 0,12 Watt (standard)**  
**or I max < 300 mA 0,4 V DC 12 max. capacity 0,12 Watt do not exceed!**  
**I min > 0,2 mA 2 V DC 12 max. contact reliability for very low current (special)**

Mechanical life 8 million (operating cycles)  
 Permissible ambient temperature Operation -40° C to + 60° C  
 Storage -50° C to + 80° C

Climate resistance  
 Damp heat constant DIN IEC 68 part 2-3  
 Damp heat cyclic DIN IEC 68 part 2-30  
 Degree of protection front IP 54 IEC 529 DIN 40050  
 Technical data look catalog 5/100  
 Description data look catalog 5/002

Spindle block with schematic representation of the master controller installation and deflection directions. Version shown for Left-hand side installation (right-hand side installation is mirror image).



Pos.	V 81	V 8	Type	Weight gramm	Price EURO
1			V 81	800	
2					
3			V 8	900	
4					
5					
10	Gate cross-shaped	(prohibits diagonal shifting)	P	60	
11	Gate special-shaped	(for e. H-gate)	P	60	
12	Spring return in 0-position	(for each direction)	Z	30	
13	Friktion brake	(for each direction)	R	30	
14					
20	Control-handle with knob solid		M	50	
21	Control-handle with latch for mechanical zero interlock		T	100	
22	Control-handle with dead man's button	1 NO	H	100	
23	Control-handle with signal button	1 NO	D	110	
24	Control-handle with push button	1 NO	DV	110	
25	Control-handle with flat push button	1 NO	B 1	40	
26	Control handle with palm grip B 1		B 1T	60	
27	Control handle with palm grip B 1 with push button top	1 NO			
28	Control handle long or short 180, 140 mm				
29	More knobs, grips and T-grips with and without signal devices look catalog 1/280...				
30	Masterswitch switching sequence -0-	No. of contacts 1	1	20	
31		2	2	40	
32	Direction 1-2 and 3-4 each 1 masterswitch	3	3	60	
33	Switching program according contact-arrangement MS... look catalog 5/001				
34	or to your contact-arrangement				
35					
36	Switching sequence 3-0-3				
40	Potentiometer e.t.c. each masterswitch with mounted Conductive-plastic-potentiometer T 301, with centre tap linear Life 10 <sup>7</sup> switching cycles resistance 2 x 5 kOhm, 0,5 Watt wiper current max. 1 mA		P	70	
41	Prepared for mounting potentiometer shaft 6 mm adjusting-angle 2 x 120°		(P)		
42	Prepared for mounting potentiometer e.t.c. adjusting-angle variable.		(P)		
43	more Potentiometer e.t.c. look catalog 1/240...				
44	Mechanical Encoder with mounted direction 1-2 and 3-4 each 1 Encoder life 5 x 10 <sup>6</sup> switching cycles, 0,5 Watt wiper current max. 1 mA		P	20	
50	Cover housing		B	300	
51	Filter plug M 20 for air-condition			20	
52	Cable entry M 20			30	
53	Plug in socket 14-pole female insert CPC 17 unwired			150	
54	Connector 14-pole male insert CPC 17 unwired			150	
55	Wiring plug in socket or connector each wired-connection				
56	Can-Bus Electronic look catalog 3/504				
60	Indicating labels not engraved with 2 or 4 arrows				
61	Engraved each 10 characters				



T = dead man's button  
H = signal button  
M = latch for mechanical zero interlock

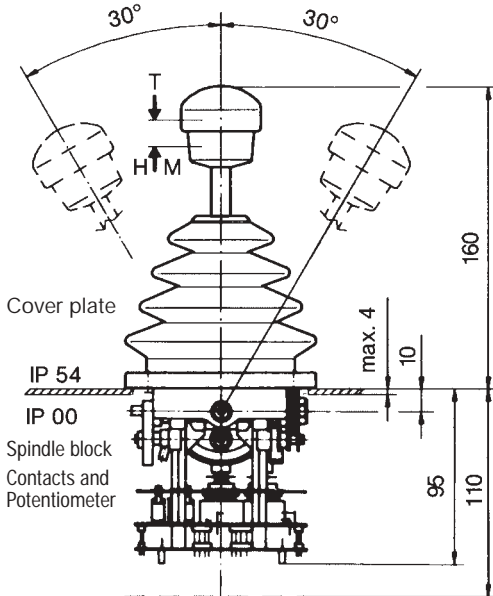
**Knob solid**  
D = -push button

**Palm grip B 1**

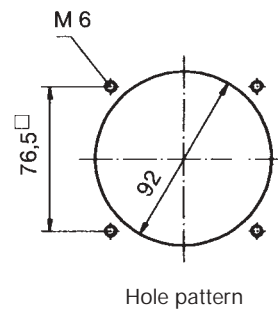
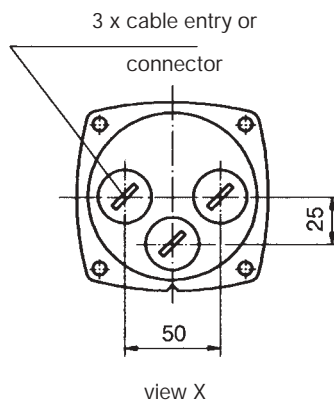
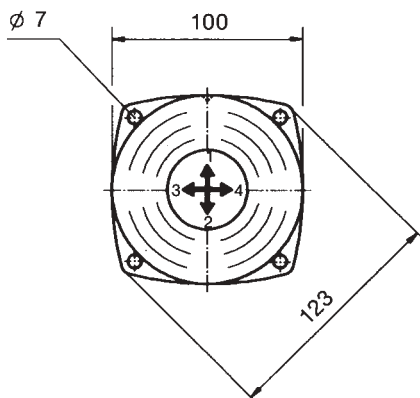
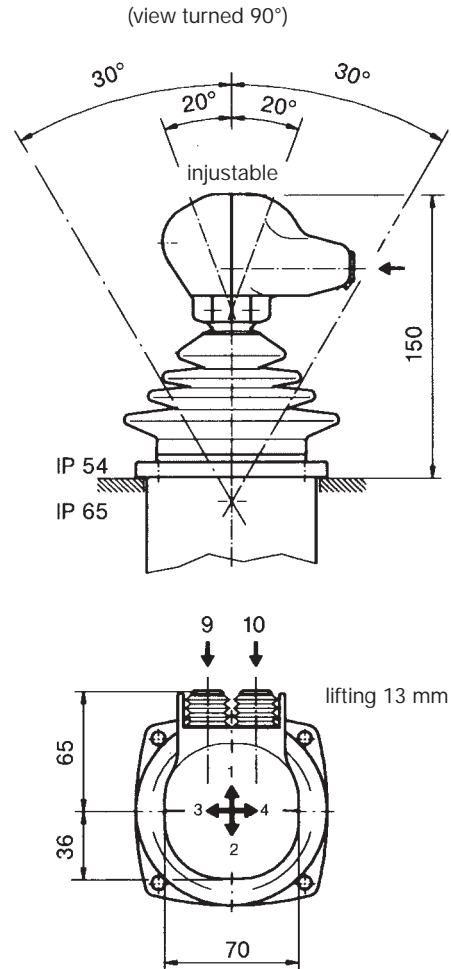
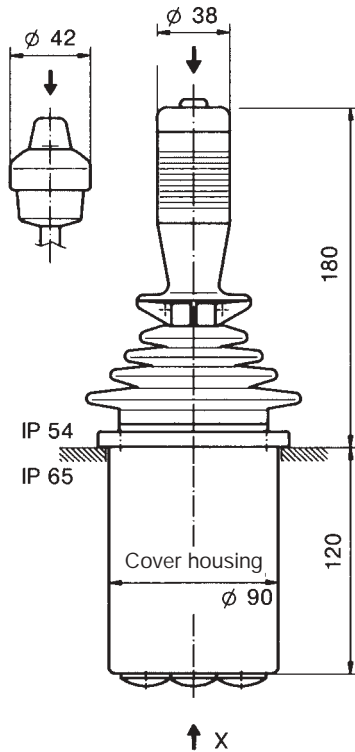
B 1 T = dead man's button  
look catalog 1/284

**Palm grip B 2**

for the 3. direction 9-10  
look catalog 1/285

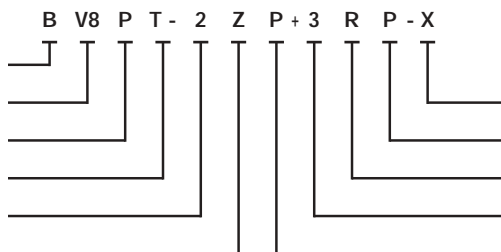


Expanse for impedance-converter and board with solder-, plug-, or screw terminal



Example for type-sign

- Cover housing
- Multi-axis controller
- Gate
- Dead man's button
- Masterswitch direction 1-2
- Spring return direction 1-2



- Special please to describe
- Potentiometer e.t.c. direction 3-4
- Friction brake direction 3-4
- Masterswitch direction 3-4
- Potentiometer e.t.c. direction 1-2