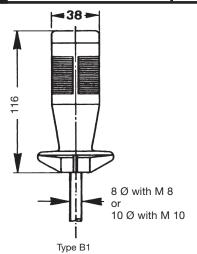


1/284 2011



The palm grip B 1 is an actuating element for our multi-axis and single-axis controller. It can also be used as an actuating element with hydraulic drives. Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements. These devices have micro changeover contacts.

The palm grip has a highly flexible cable 4 (8) x 0,25 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole M 8 or M 10 (standard = M 10).

The palm grip B 1 is made of PA plastic and is black in colour.

Contact complement 2 A 250 V AC 15 / 3 A 24 V DC 13 or 0,5 A 250 V AC 15 / 1,5 A 24 V DC 13

Micro change over contacts

Permissible ambient temperature Operating -40°C to +60°C Storage -50°C to +80°C

Climate resistance

Damp heat constant

Damp heat cyclic

Degree of protection front

LEC 60068-2-78

LEC 60068-2-30

LEC 60068-2-30

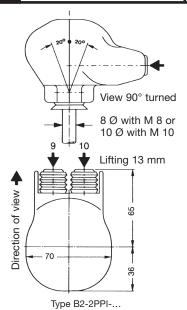
LEC 60068-2-30

LEC 60068-2-30

Pos.					Contact- complement	Weight gramm	Туре	Price EURO
1		Without built in		KBAD / 22		100	B 1	
2 3 4	0 * *	Rocker switch top tip-0-tip T-0-T Rocker switch top tip-0-rest T-0-R Rocker switch top rest-0-rest R-0-R	installed Pos. 1 installed Pos. 1 installed Pos. 1	KBAD / 18	2 change over contact 3 A 24 V DC 13	120	B 1 W	
5	3+	Rocker switch top tip-0-tip T-0-T with push button side	installed Pos. 1 installed Pos. 3	KBAD / 29	2 change over contact 3 A 24 V DC 13 1 change over contact 1,5 A 24 V DC 13	130	B 1 WD	
6		Rocker switch top tip-0-tip T-0-T with 2 push button side	installed Pos. 1 installed Pos. 2+3	KBAD / 67	2 change over contact 3 A 24 V DC 13 2 change over contact 1,5 A 24 V DC 13	140	B 1 W2D	
7 8		Push button top with mechanical operation Push button top	installed Pos. 1 installed Pos. 1	KBAD / 27 KBAD / 25	1 change over contact 1,5 A 24 V DC 13	120 100	B1T B1D	
9 10	2	Push button top with 1 push button side Push button top with 2 push button side	installed Pos. 1 installed Pos. 2 installed Pos. 2+3	KBAD / 20	2 change over contact 1,5 A 24 V AC 13 3 change over contact 1,5 A 24 V DC 13	120 130	B 1 2D B 1 3D	
11 12 13	0 - 11	1 push button side 2 push button side 3 push button side	installed Pos. 1 installed Pos. 2 installed Pos. 3	KBAD / 31	change over contact 1,5 A 24 V DC 13	110 120 130	B 1 D B 1 2D B 1 3D	
14	0 ;	Push button top with Rocker switch side tip-0-tip (protection IP 41) T-0-T	installed Pos. 1	KBAD / 75	1 change over contact 1,5 A 24 V DC 13 2 change over contact 1,5 A 24 V DC 13	120	B 1 DW	
15 16 17	•	Lever switch side 0-tip mechanical operatever switch side 0-tip 1 contact Lever switch side 0-tip 2 contacts	ation	KBAD / 586 KBAD / 54 KBAD / 54	change over contact 3 A 24 V DC 13	150 120 130	B 1 K B 1 KD B 1 K2D	
21 22		Cable 4 or 8 x 0,25 mm² x 450 mm long wired included Pos. 1-17 Additional price per metre cable 4-pole Additional price per metre cable 8-pole						



1/285 2011



The palm grip B 2 is an actuating element for our multi-axis controller V 8. It can also be used as an actuating element for hydraulic drives. With each of the two push button one direction-contact (micro change over contact) also one

potentiometer pushed. These palm grip realised the 3. direction 9-10 (3. axis) on our multi-axis controller V 8.

The palm grip has a highly flexible cable 8 x 0,25 mm 2 x 450 mm long.

The mounting piece for the drive rod can be adjusted steplessly up to

The palm grip B 2 is made of PA plastic and is black in colour.

Contact complement 0,5 A 110 V AC 15 or 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)

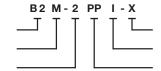
Micro change over contacts available on request

Operating -40°C to +60°C Storage -50°C to +80°C Permissible ambient temperature

Climate resistance IEC 60068-2-78 IEC 60068-2-30 Damp heat constant Damp heat cyclic Degree of protection front IP 54 IEC/EN 60529

Pos.		Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle		200	B 2	
2	Latch for mechanical interlock for the push buttons		30	М	
3	2 direction-contacts	2 normally open	30	2	
4	2 wire-wound potentiometer T 239 linear life 5 x 10° switching cycles resistance 1,2,5 kOhm 1 Watt wiper current max. 10 mA		60	PP	
5 6	2 conductive-plastic potentiometer T 301 linear life 10 ⁷ switching cycles resistance 1,2,5 kOhm 0,5 Watt wiper current max. 1 mA		50	PP	
	more potentiometer e.t.c. see catalog 1/240				
10	Impedance converter Input ±15 Volt, Output ±10 V /5 mA		50	I	
	Cable 8 x 0,25 mm² x 450 mm long wired included Pos. 1-10				
22	Additional price per metre cable 8-pole				

Example for type-sign Palm grip Mechanical interlock No. of contacts



Special please describe Impedance converter Potentiometer e.t.c.



1/286 2011



Type B32DWKPA11-..

The palm grip B 3 is an actuating element for our multi-axis controller V 8, VV 8, V 6, VV 6, VV 5. It can also be used as an actuating element for hydraulic drives. Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements.

Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements. The drives with potentiometer PA 11/12 and PA 13 realised the direction 11-12 resp. 13-14 (3. resp. 4 axis) on our multi-axis controllers.

The palm grip has a highly flexible single wire 0,1 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole 12 or 10 mm (standard = 12 mm)

(standard = 12 mm).
The palm grip B 3 is made of PA plastic and is black in colour.

Contact complement 0,5 A 110 V AC 15 or 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)

Micro change over contacts available on request

Permissible ambient temperature Operating -40°C to $+60^{\circ}\text{C}$ Storage -50°C to $+80^{\circ}\text{C}$

Climate resistance
Damp heat constant
Damp heat cyclic
Degree of protection front

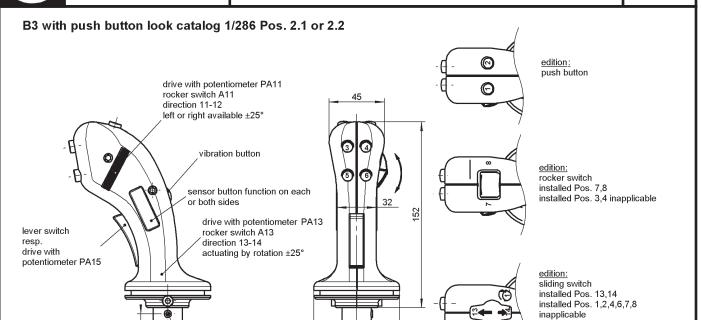
EC 60068-2-78
IEC 60068-2-30
IEC 60068-2-30
IP 65 IEC/IEN 60529

Pos.			Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle			200	В3	
2 2.1 2.2 2.3	Push button color red RD, black BK, yellow YE, green GN, blue BU Push button protection P65 installed Pos. 1, 2, 3, 4, 5, 6 Push button protection P67 installed Pos. 1, 2, 3, 4, 5, 6 Push button protection P65 installed Pos. 1-10, + 15-16	KMD179 KDA21	1 normally open 1 normally open 1NO 0,1 A 24V DC 13	20 20 20	D D D	
4 4.1 4.2 4.3 4.4 4.5 4.6	Rocker switch Rocker switch tip-0-tip T-0-T Rocker switch rest-0-tip R-0-T Rocker switch rest-0-rest R-0-R Rocker switch 0-rest 0-R Rocker switch rest - rest R - R Lever switch Sliding switch tip-0-tip T-0-T installed Pos. 13 + 14	KEM/92	2 normally open 1 normally open 2 normally open	30 30 30 30 30 30 30	W W W W W K ST	
8 9	Sliding switch rest-0-rest R-0-R installed Pos. 13 + 14 Push button with 2 steps Latch for mechanical installed Pos. 11 + 12 interlock 4 contacts arrangement MS 212 see catalog 5/001		2 normally open 4 normally open	40 90	SR ZD	
11 11.1 11.2	Drive with potentiometer PA 11 actuating by rocker wheel installed Pos. left or right with spring return in the centre position 1 conductive-plastic potentiometer T 375 with centre tap Linear 10 ⁷ switching cycles resistance 2 x 5 kOhm 0,5 Watt wiper-current max. 1 mA, 2 direction-contacts Rocker switch tip-0-tip T-0-T Rocker switch rest-0-rest R-0-R		2 normally open 2 normally open 2 normally open	90 70 70	PA 11 A11 A11	
12	Drive with potentiometer PA 12 actuating installed Pos. 11 + 12 by push button (details exactly PA 11)			90	PA 12	
13 13.1 13.2	Drive with potentiometer PA 13 actuating by rotating palm grip left resp. right with spring return in the centre position 1 conductive-plastic potentiometer T 375 with centre tap Linear 10 ⁷ switching cycles resistance 2 x 5 kOhm 0,5 Watt wiper current max. 1 mA, 2 direction-contacts Rocker switch tip-0-tip T-0-T Rocker switch rest-0-rest R-0-R		2 normally open 2 normally open 2 normally open	90 70 70	PA 13 A13 A13	
15	Drive with potentiometer PA 15 actuating by lever switch with spring return in 0-position, 1 conductive-plastic potentiometer T 375 Linear 10' switching cycles resistance 5 kOhm 0,5 Watt wiper current max. 1 mA, 1 direction-contact		1 normally open	90	PA 15	
20 21	Vibrator button actuating through solenoid 24 V DC impulse signal 100% duty cycle factor (e.g. indication of cable movement) Sensor button and/or annexed with a regulator electronic board EY/42-10 or -11 24 V DC (separate)			60 20	V SE	
30	Bellow for palm grip B 3 required for multi-axis controller V 8, VV 8 Bellow for palm grip B 3 and front plate with 4 screws M5 x 15 (for mounting the bellow) required for multi-axis controller V 6, VV 6, VV 5	KMD 109 KMD 190 KBF 905				

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drive with potentiometer PA12 resp. push button with 2 steps ZD installed Pos. 11,12

PA11 resp. A11 inapplicable

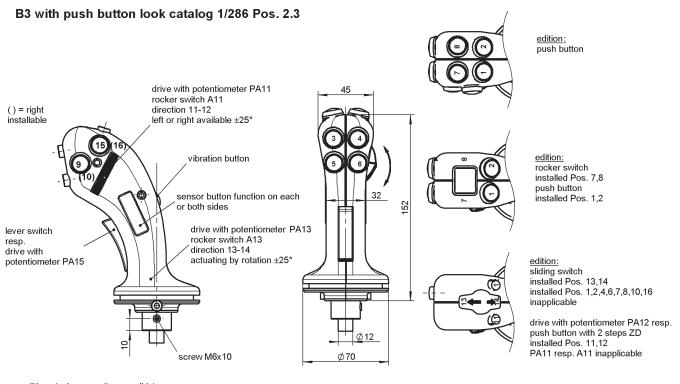


Ø70

edition: (only one option possible)

vibration button, dirve with potentiometer PA 13 resp. A13, dirve with potentiometer PA 15 resp. lever switch

screw M6x10



edition: (only one option possible)

vibration button,drive with potentiometer PA 13 resp. A13, drive with potentiometer PA 15 resp. lever switch

Example for type-sign

B 3 D W K SEPA 11 PA 13 - X

Palm grip

Push button

Rocker switch

Drive with potentiometer PA 13

Drive with potentiometer PA 11

Sensor button



1/288 2011



The palm grip B 4 is an actuating element for our multi-axis controller V 10, V 14, V 25, V 8 / VV 8, V 85 / VV 85.

It can also be used as an actuating element for hydraulic drives.

Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements. The drive with potentiometer PA 11 realised the direction 11-12 (3. axis) on our multi-axis controllers.

The palm grip has a highly flexible single wire 0,1 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole 7 mm. The palm grip B 4 is made of PA plastic and is black in colour.

Contact complement 0,5 A 110 V AC 15 or 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)

Permissible ambient temperature

Operating -40°C to +60°C Storage -50°C to +80°C

Climate resistance

-----g- --- --- ---

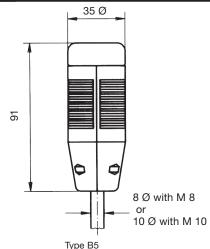
Damp heat constant Damp heat cyclic Degree of protection front IEC 60068-2-78 IEC 60068-2-30 IP 65 IEC/IEN 60529

Type B42DPA11-...

Pos.	Туре В42DPA11		Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle			120	B 4	
2	Palm grip with mounting piece for control-handle with annex component design left			150	B 4-1	
3	Palm grip with mounting piece for control-handle with annex component design right			150	B 4-2	
5	Push button installed Pos. 1-2, 5-6, 7-8, 9 Color red RD, black BK, yellow YE, green GN, blue BU, white WH	KDA21	1 NO 0,1 A 24 V DC 13	20	D	
8 8.1 8.2 8.3 8.4 8.5 8.6	Rocker switch tip-0-tip T-0-T Rocker switch 0-tip 0-T Rocker switch rest-0-tip R-0-T Rocker switch rest-0-rest R-0-R Rocker switch 0-rest 0-R Rocker switch rest - rest R - R	KEM/92	2 normally open	30 30 30 30 30 30	W W W W	
11	Drive with potentiometer PA 11 installed Pos. 3-4 actuating by rocker wheel with spring return in the centre position 1 conductive-plastic potentiometer T 394 with centre tap Linear 10 ⁷ switching cycles resistance 2 x 5 kOhm 0,5 Watt wiper current max. 1 mA 2 direction-contacts		2 normally open	90	PA 11	



1/290 2011



The palm grip B 5 is an actuating element for our multi-axis and single-axis controller. It can also be used as an actuating element for hydraulic drives. Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements.

The palm grip has a highly flexible cable 4 (8) x 0,25 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole M 8 or M 10 (standard = M 10).

The palm grip B 5 is made of PA plastic and is black in colour.

2 A 250 V AC 15 / 3 A 24 V DC 13 0,5 A 250 V AC 15 / 1,5 A 24 V DC 13 Contact complement or

Micro change over contacts

Operating -40°C to +60°C storage -50°C to +80°C Permissible ambient temperature Storage

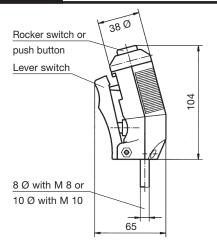
Climate resistance Damp heat constant Damp heat cyclic Degree of protection front

IEC 60068-2-78 IEC 60068-2-30 IP 54 IEC/EN 60529

Pos.					Contact- complement	Weight gramm	Туре	Price EURO
1	0 0	without built in		KBAD / 254			B 5	
2 3 4	0	Rocker switch top tip-0-tip T-0-T Rocker switch top tip-0-rest T-0-R Rocker switch top rest-0-rest R-0-R	installed Pos. 1 installed Pos. 1 installed Pos. 1	KBAD / 248	2 change over contact 3 A 24 V DC 13		B 5 W	
5	0 - 1	Rocker switch top tip-0-tip T-0-T with push button side	installed Pos. 1 installed Pos. 2	KBAD / 294	2 change over contact 3 A 24 V AC 13 1 change over contact 1,5 A 24 V DC 13		B 5 WD	
7 8	1	Push button top mechanical operation Push button top	installed Pos. 1 installed Pos. 1	KBAD / 311 KBAD / 250	1 change over contact 1,5A 24 V DC 13		B 5 T B 5 D	
9	2-	Push button top with 1 push button side	installed Pos. 1 installed Pos. 2	KBAD / 252	2 change over contact 1,5A 24 V DC 13		B 5 2D	
11 12	2 -	1 push button side 2 push button side	installed Pos. 1 installed Pos. 2	KBAD / 246	change over contact 1,5A 24 V DC 13		B 5 D B 5 2D	
21 22		Cable 4 or 8 x 0,25 mm² x 450 mm long wired included in Pos. 1-12 Additional price per metre cable 4-pole Additional price per metre cable 8-pole						



1/291 2011



The palm grip B 6 is an actuating element for our multi-axis and single-axis controller. It can also be used as an actuating element with hydraulic drives. Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements. These devices have micro changeover contacts.

The palm grip has a highly flexible cable 4 (8) x 0,25 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole M 8 or M 10 (standard = M 10).

The palm grip B 6 is made of PA plastic and is black in colour.

Contact complement 2 A 250 V AC 15 / 3 A 24 V DC 13 or 0,5 A 250 V AC 15 / 1,5 A 24 V DC 13

Micro change over contacts

Permissible ambient temperature Operating -40°C to +60°C Storage -50°C to +80°C

Climate resistance
Damp heat constant
Damp heat cyclic
Degree of protection front

IEC 60068-2-78 IEC 60068-2-30 IP 54 IEC/EN 60529

	Туре	9 B6KW		 			
Pos.				Contact- complement	Weight gramm	Туре	Price EURO
1		with built in lever switch side (0-tip	1 change over contact 1,5 A 24 V DC 13	120	B 6 K	
2 3 4		Lever switch side 0-tip with rocker switch top tip-0-tip with rocker switch top tip-0-re with rocker switch top rest-0-r	st T-0-R	3 change over contact 1,5 A 24 V DC 13	130	B 6 KW	
5		Lever switch side 0-tip with push button top		2 change over contact 1,5 A 24 V DC 13	130	B 6 KD	
21 22		Cable 4 or 8 x 0,25 mm² x 450 wired included Pos. 1-5 Additional price per metre cab Additional price per metre cab	ile 4-pole				



Palm grip B 7 / B 8

1/292 2011



The palm grip B 7 is an actuating element for our multi-axis controller V 8, W 8, V 6, WV 5, design left, B 8 for design right. It can also be used as an actuating element for hydraulic drives.

Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements.

The palm grip has a highly flexible single wire 0,1 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole 12 or 10 mm (standard = 12 mm).

The palm grip B 7/8 is made of PA plastic and is black in colour.

Contact complement 0,5 A 110 V AC 15 or 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)

Micro change over contacts available on request

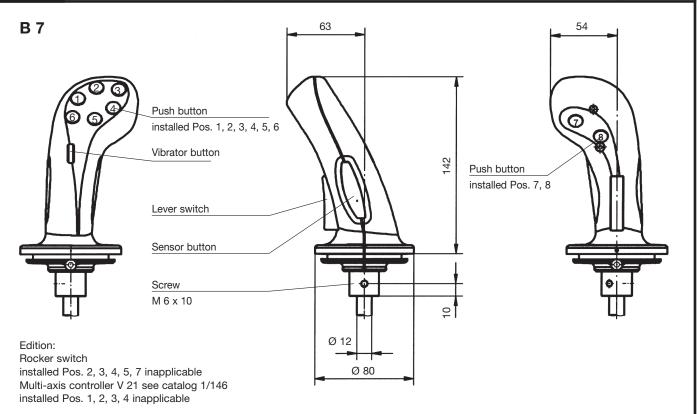
Operating -40°C to +60°C Storage -50°C to +80°C Permissible ambient temperature Storage

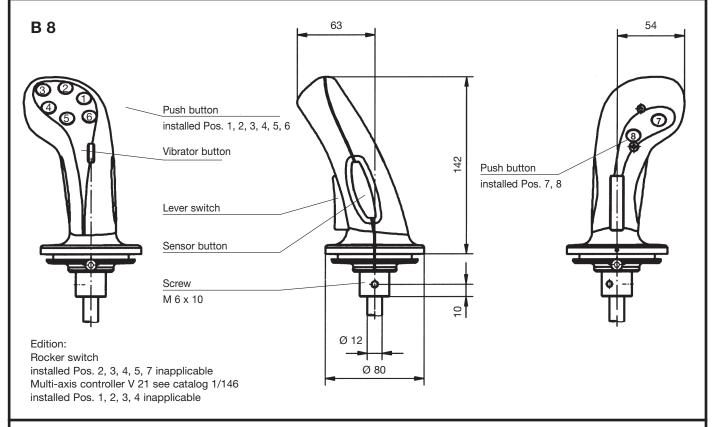
Climate resistance Damp heat constant Damp heat cyclic Degree of protection front

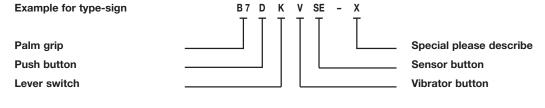
IEC 60068-2-78 IEC 60068-2-30 IP 65 IEC/IEN 60529

	Type Brody					
Pos.			Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle design left			200	В7	
2	Palm grip with mounting piece for control-handle design right			200	В8	
3	Push button installed Pos. 1, 2, 3, 4, 5, 6, 7, 8 color red RD, black BK, yellow YE, green GN, blue BU, white WH		1 normally open	20	D	
4 4.1 4.2 4.3 4.4 4.5 4.6	Rocker switch tip-0-tip T-0-T Rocker switch o-tip 0-T Rocker switch rest-0-tip R-0-T Rocker switch rest-0-rest R-0-R Rocker switch 0-rest 0-R Rocker switch rest - rest R - R	KEM/59	2 normally open	30 30 30 30 30 30	W W W W	
7	Lever switch		1 normally open	30	K	
20	Vibrator button actuating through solenoid 24 V DC impulse signal 100% duty cycle factor			60	V	
21	Sensor button and/or annexed with a regulator electronic board EY / 42-10 or -11 24 V DC (separate)			20	SE	
22	Multi-axis controller V 21 see catalog 1/146 installed Pos. 1-4					
30	Bellow for palm grip B 7/8	KMD 109				
30	Bellow for palm grip B 7/8 required for multi-axis controller V 8, VV 8	KMD 109				
31	Bellow for palm grip B 7/8 and front plate with 4 screws M5 x 15 (for mounting the bellow) required for multi-axis controller V 6, VV 5	KMD 190 KBF 905				
32	Pressure cap protection IP 67 for push button Pos. 3 color red RD, black BK, yellow YE, green GN, blue BU	KMD 179				











1/294 2011



Type B96DKT-...

The palm grip B 9 is an actuating element for our multi-axis controller V 8, VV 8, V 6, VV 6, VV 5. It can also be used as an actuating element for hydraulic drives. Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements.

The drives with potentiometer PA 11 and PA 13 realised the direction 11-12 resp. 13-14 (3. resp. 4 axis) on our multi-axis controllers.

The palm grip has a highly flexible single wire 0,1 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole 12 or 10 \mbox{mm}

(standard = 12 mm). The palm grip B 9 is made of PA plastic and is grey in colour.

Contact complement 0,5 A 110 V AC 15 or 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)

Micro change over contacts available on request

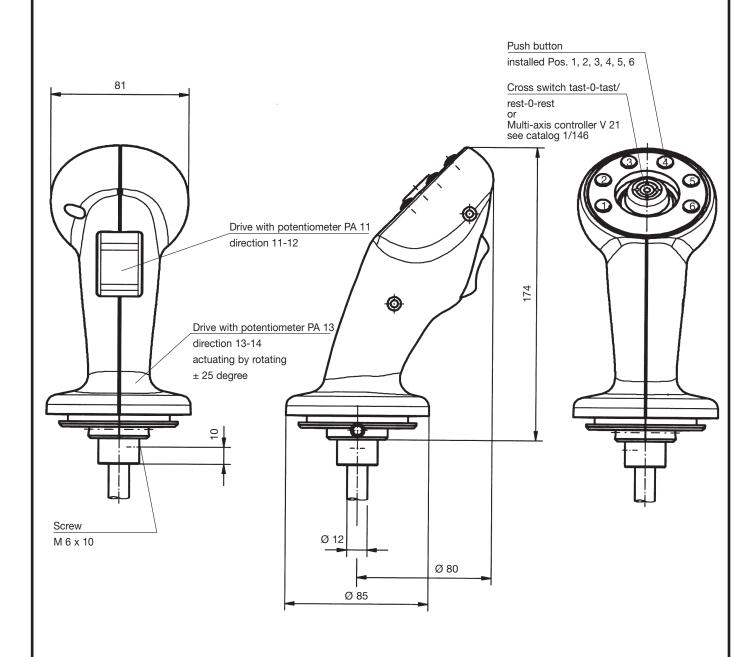
Permissible ambient temperature Operating -40°C to +60°C

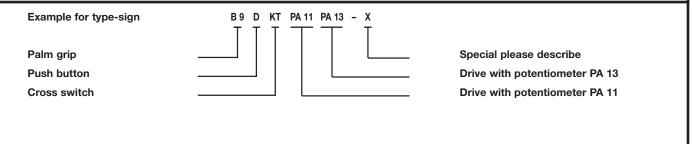
Storage -50°C to +80°C

Climate resistance IEC 60068-2-78 IEC 60068-2-30 Damp heat constant Damp heat cyclic Degree of protection front IP 65 IEC/IEN 60529

Pos.			Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle			230	B 9	
2	Push button installed Pos. 1, 2, 3, 4, 5, 6 color red RD, black BK, yellow YE, green GN, blue BU, white WH		1 normally open	20	D	
3	Cross switch tip-0-tip T-0-T / T-0-T		4 normally open	60	KT	
5	Cross switch rest-0-rest R-0-R / R-0-R		4 normally open	60	KR	
6 10						
11	Drive with potentiometer PA 11 actuating by rocker wheel with spring return in the centre position 1 conductive-plastic potentiometer T 394 with centre tap Linear 10 ⁷ switching cycles resistance 2 x 5 kOhm 0,5 Watt wiper current max. 1 mA, 2 direction-contacts		2 normally open	90	PA 11	
13	Drive with potentiometer PA 13 actuating by rotating palm grip left resp. right with spring return in the centre position 1 conductive-plastic potentiometer T 375 with centre tap Linear 10 ⁷ switching cycles resistance 2 x 5 kOhm 0,5 Watt wiper current max. 1 mA, 2 direction-contacts		2 normally open	90	PA 13	
22	Multi-axis controller V 21 see catalog 1/146					
30 31 32 33	Bellow for palm grip B 9 required for multi-axis controller V 8, VV 8 Bellow for palm grip B 9 and front plate with 4 screws M5 x 15 (for mounting the bellow) required for multi-axis controller V 6, VV 6, VV 5	KMD 109 KMD 190 KBF 905				
33 88						









Palm grip B 10-1 / B 10-2

1/296 2011



The palm grip B 10-1 is an actuating element for double-handle controller D 64, DD 64, D8. Control-handle left, B10-2 for control-handle right. It can also be used as an actuating element for hydraulic drives. Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements.

The palm grip has a highly flexible single wire 0,1 mm² x 450 mm long.

The mounting piece for the drive rod can be supplied with a tapped hole 10 mm. The palm grip B 10 is made of PA plastic and is black in colour.

Contact complement 0,5 A 110 V AC 15 or 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)

Micro change over contacts available on request

Permissible ambient temperature

Operating -40°C to +60°C -50°C to +80°C Storage

Climate resistance

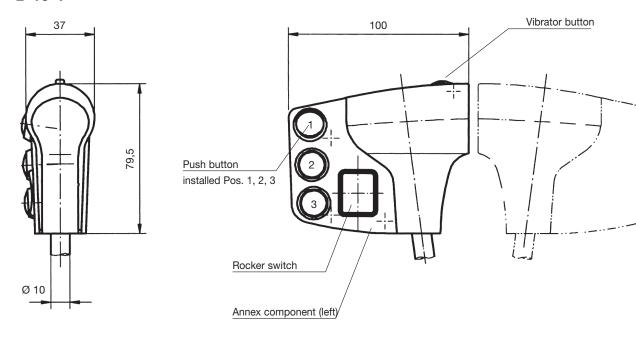
Damp heat constant Damp heat cyclic Degree of protection front IEC 60068-2-78 IEC 60068-2-30 IP 65 IEC/IEN 60529

Type B10.1-13DW-...

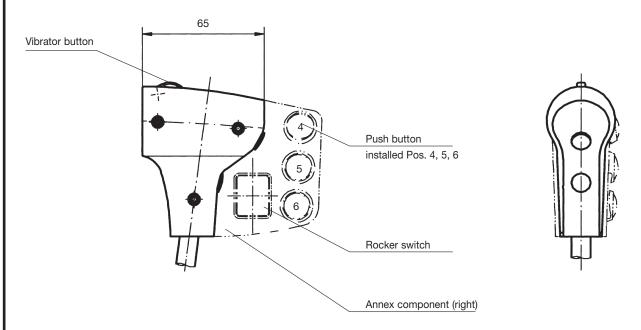
	туре вто.т-тарм					
Pos.			Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle design left			100	B 10-1	
2	Palm grip with mounting piece for control-handle with annex component design left			130	B 10-1-1	
3	Palm grip with mounting piece for control-handle design right			100	B 10-2	
4	Palm grip with mounting piece for control-handle with annex component design right			130	B 10-2-2	
5	Push button B 10-1 installed Pos. 1, 2, 3 B 10-2 installed Pos. 4, 5, 6	KDA21	1 NO 0,1 A 24 V DC 13	20	D	
8	Rocker switch	KEM/59	2 normally open			
8.1	Rocker switch tip-0-tip T-0-T			30	W	
8.2	Rocker switch 0-tip 0-T			30	W	
8.3 8.4	Rocker switch rest-0-tip R-0-T Rocker switch rest-0-rest R-0-R			30 30	W	
8.5	Rocker switch 0-rest 0-R			30	W	
8.6	Rocker switch rest - rest R - R			30	W	
20	Vibrator button actuating through solenoid 24 V DC			60	V	
	impulse signal 100% duty cycle factor					

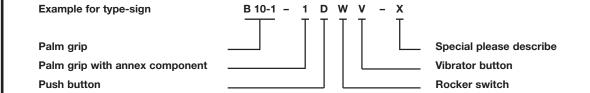






B 10-2







Palm grip B 14 / B 15

1/300 2011



The palm grip B 14 is an actuating element for our multi-axis controller V 8, VV 8, V 6, VV 5 design left, B 15 for design right. It can also be used as an actuating element for hydraulic drives.

Push buttons, rocker switches, e.t.c., can also be fitted to suit appropriate requirements.

The palm grip has a highly flexible single wire 0,1 $\,\mathrm{mm^2}\,x$ 450 $\,\mathrm{mm}$ long.

The mounting piece for the drive rod can be supplied with a tapped hole 12 or 10 mm (standard = 12 mm).

The palm grip B 14/15 is made of PA plastic and is black in colour.

Contact complement 0,125 A 110 V AC 15 or 0,1 A 24 V DC 13

Permissible ambient temperature

Operating -40°C to +60°C Storage -50°C to +80°C Storage Climate resistance Damp heat constant IEC 60068-2-78

IEC 60068-2-30 Damp heat cyclic Degree of protection front IP 65 IEC/IEN 60529

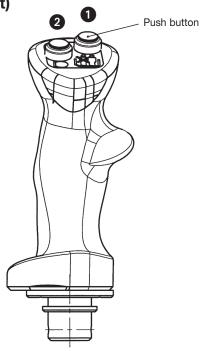
Pos.	,,pc 2		Contact- complement	Weight gramm	Туре	Price EURO
1	Palm grip with mounting piece for control-handle design left			200	B 14	
2	Palm grip with mounting piece for control-handle design right			200	B 15	
3	Push button installed Pos. 1, 2 color red RD, black BK, yellow YE, green GN, blue BU, white WH	KDA21	1 NO 0,1 A 24 V DC 13	20	D	
30						
31						
32						
33						

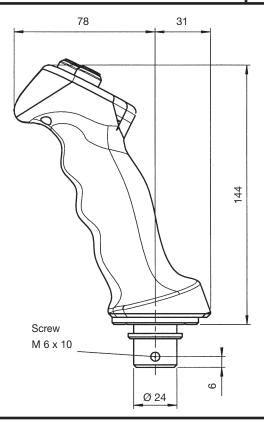


Palm grip B 14 / B 15

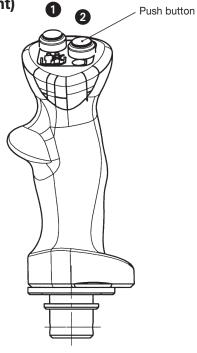
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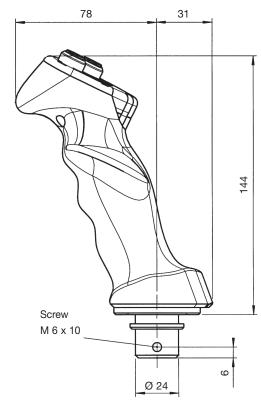






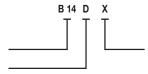
B 15 (right)





Example for type-sign

Palm grip
Push button



Special please describe