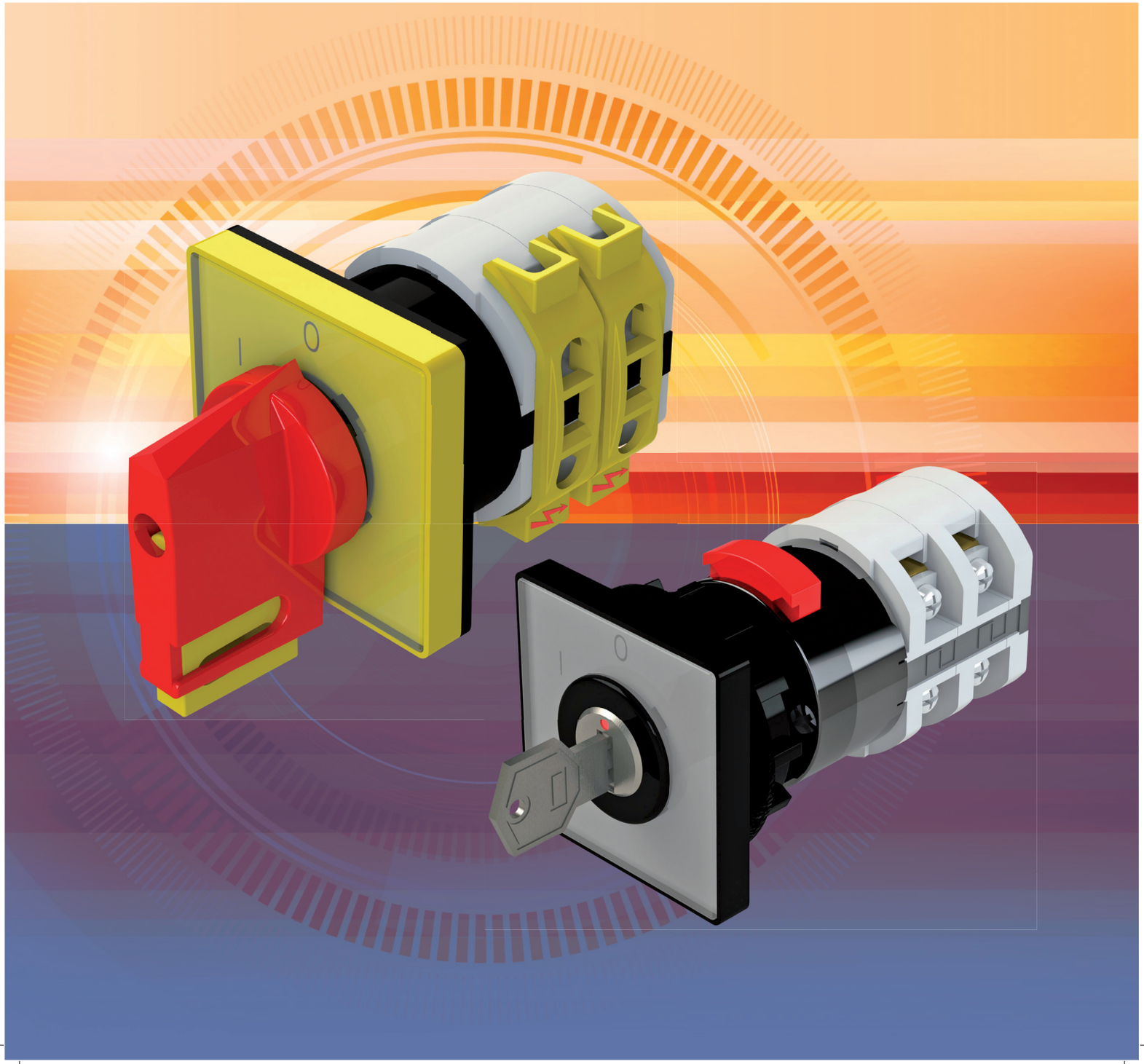
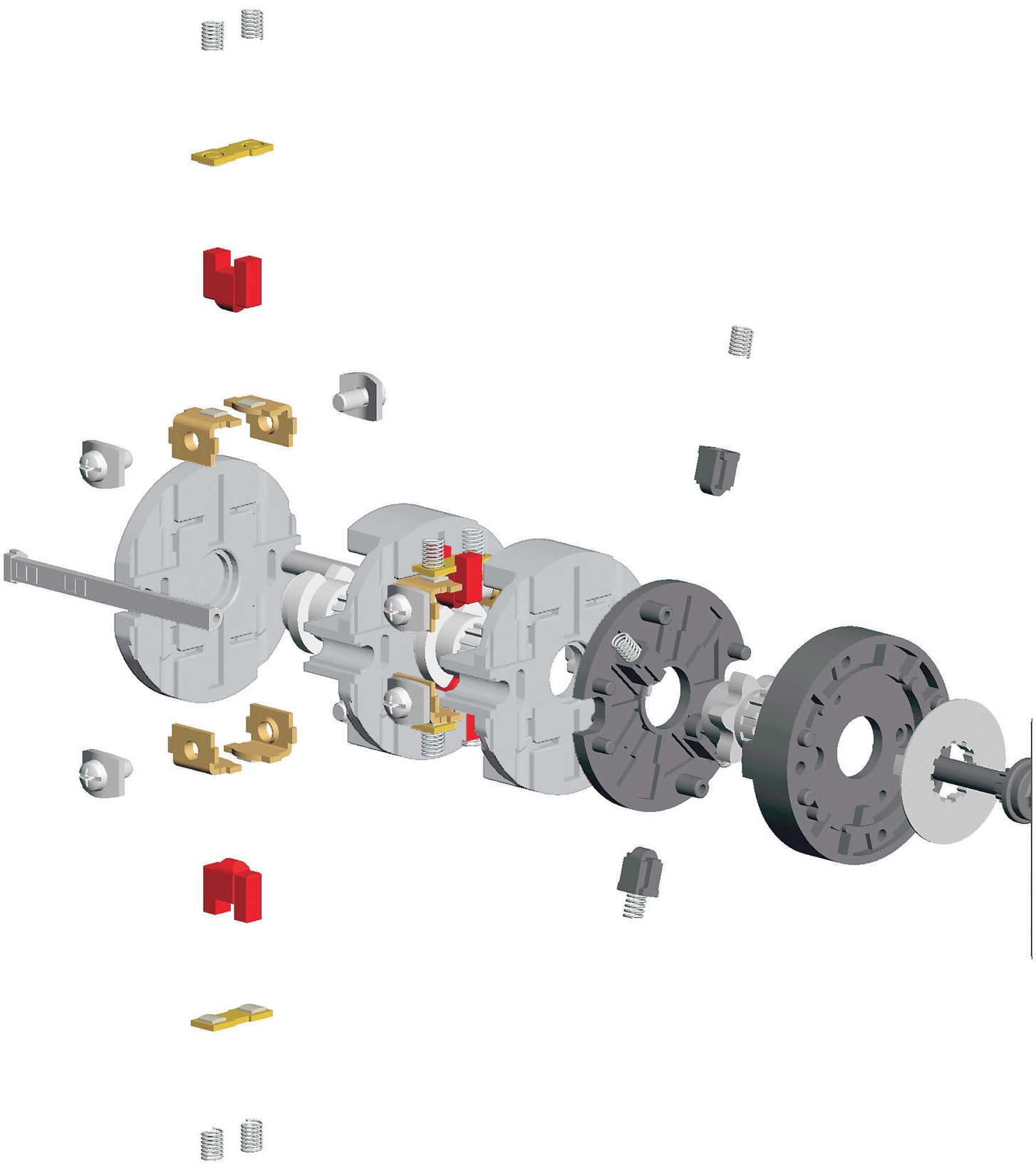
CONTROL SWITCHES
CSii
INTERNATIONAL, INC.

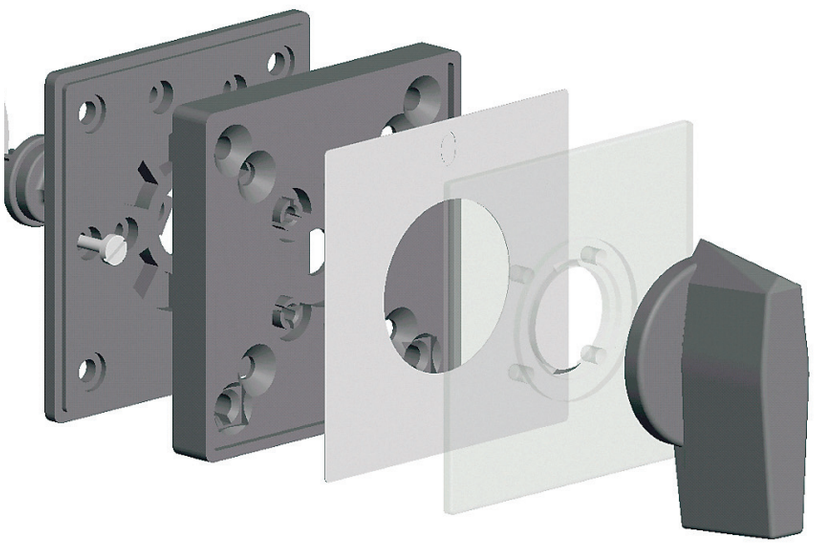
Rotary cam switches

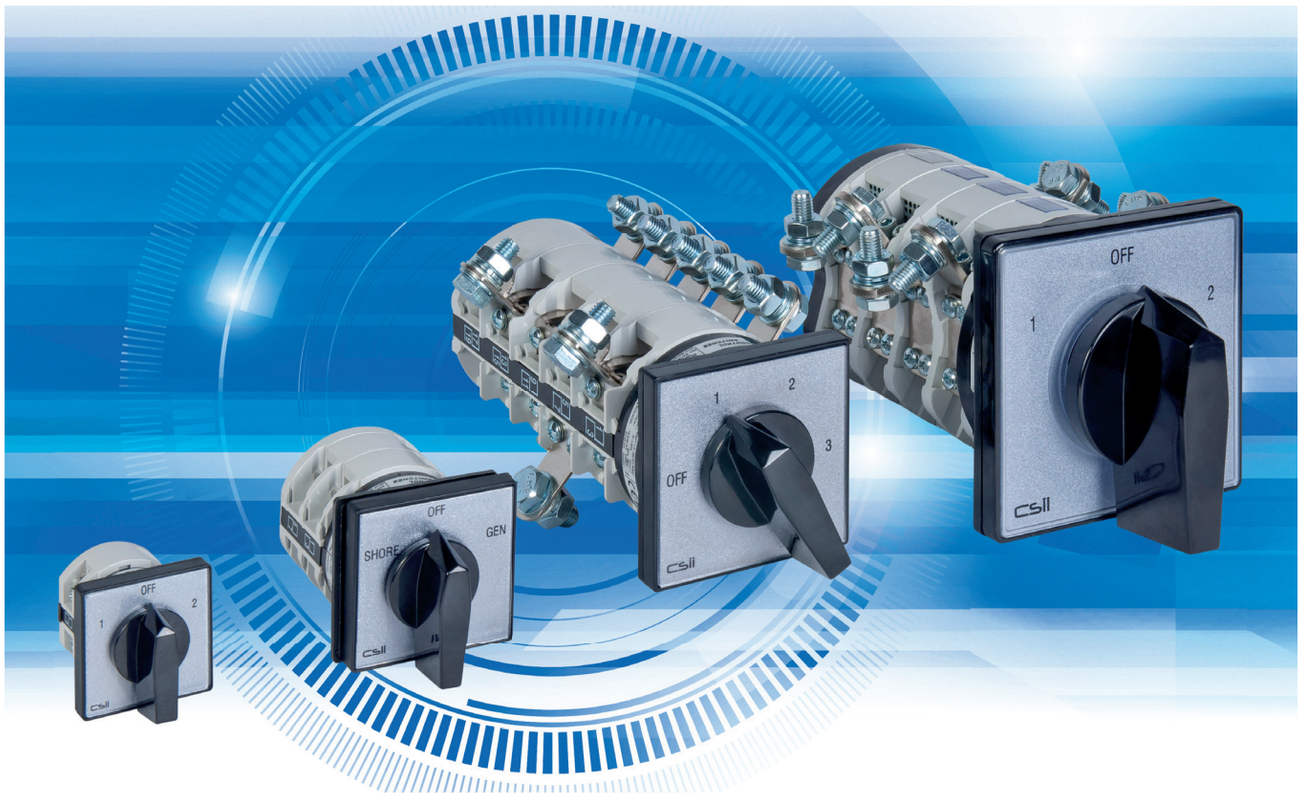
N *series*





CONTENTS





ROTARY CAM SWITCHES series N

Rotary cam switches series N have been developed to the latest achievements in the field of switching devices through the application of high quality insulation materials and contacts made with silver alloys. Their advantages are: high making and breaking capacities, electrical and mechanical endurance and small dimensions. The rotary cam switches are intended for multiple switching operations in main as well as in auxiliary circuits:

- *as motor switches they are designed for direct-online starting and stopping of single-phase and three-phase motors. They also come out as star-delta switches, reversing switches, pole-change over motor switches*
- *in auxiliary circuits they are assembled in compliance with the switching program according to preference: switches for control, signalling and measuring circuits:*
- *switches, selector switches and step switches e.g. for transformers and welding apparatuses*
- *group switches e.g. for switching operations of resistors and heaters*
- *control switch with automatic return*

The rotary cam switches can have 12 control positions and 12 switching elements (24 contacts) maximum and can be made with turning angle of 30°, 45°, 60° and 90°.

At the switches with the increased turn-over moment (large number of elements with specific switching diagram, switch with automatic return with larger number of contacts), due to more reliable operation, the switches with the bigger distribution device, ***marked with B****, are used (e.g. N20B).*

At the switches where is front part bigger than standard size required, the switches are ***marked with H*** *(e.g. N20H).*

When the switches are used at lower voltages than 24 V and currents of mA in dusty and aggressive environment, the contacts can be gold-plated.

The switches can be used at the environment temperature from - 25° C to + 55° C.

Besides the standard mounting forms U, O, P, the switches are available with a large number of optional extras and they comply with all requirements in the most complicated plants and devices.

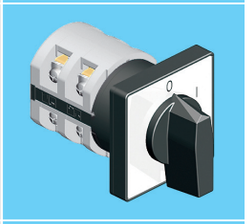
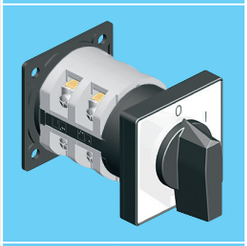
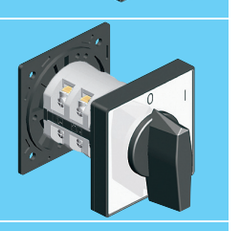
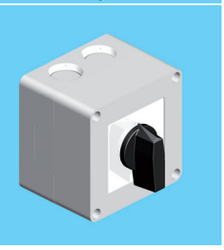
Rotary cam switches series N comply with many international and national standards such as:

IEC 60947, IEC 60204, DIN EN 61058, UL 508, C 22.2 No. 14 *and many others.*

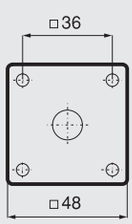
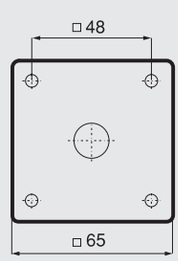
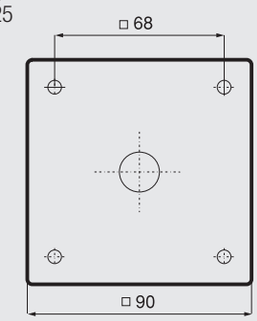
SWITCH TYPE						**N12 N12H**	**N20 N20H**	**N25 N25H**	**N32 N32H**	**N40 N40H**	**N63 N63H**	**N80**	**N125**
Rated insulation voltage (1)		U_i	IEC/VDE/BS		V	690	690	690	690	690	690	690	690
			UL/CSA		V	600	600	600	600	600	600	600	600
Rated impulse withstand voltage		U_{imp}	IEC-60947 (III/3)		kV	6	6	6	6	6	6	8	8
Rated thermal current		I_{th}	IEC/VDE/BS		A	16	20	25	32	40	63	80	125
			UL/CSA		A	15	20	30	40	50	60	85	130
Main switch IEC-60947 (III/3) (1)	*Max. value of rated operational voltage*				V	480	480	480	480	480	480	690	690
	Rated impulse withstand voltage				kV	4	4	4	4	4	4	6	6
Max. fuse size for short circuit protection		I_n (gG/gL)		10 kA	A	16	20	25	32	40	63	125	125
				25 kA	A	10	16	25	32	40	63	100	100
				50 kA	A	-	-	-	32	40	63	100	100
				63 kA	A	-	-	-	-	40	63	100	100
Rated short-time withstand current		I_{cw}		1 sec	A	200	250	400	800	1000	1600	2100	2100
				3 sec	A	120	150	250	400	600	800	1300	1300
				10 sec	A	70	80	150	250	300	400	700	700
				30 sec	A	40	50	100	160	200	250	400	400
				60 sec	A	30	40	80	125	130	160	300	300
Rated operational current		I_e AC1/AC21A IEC/VDE/BS			A	12	20	25	32	40	63	80	125
	AC15 IEC/VDE			110 V	A	10	10	16	25	25	32	40	40
				220/230 V	A	8	8	12	20	22	25	28	28
				380/400 V	A	4	6	8	10	12	15	15	15
				660/690 V	A	1,5	1,5	2	2	2	4	5	5
Motor switch in utilization category	AC3	IEC/VDE/BS *3 phase*		220/230 V	kW	2,5	3	5,5	7,5	8	11	15	18,5
				380-440 V	kW	4	5,5	7,5	11	15	18,5	33	37
				500-690 V	kW	5,5	5,5	7,5	11	15	18,5	33	33
		1 phase, 2 pole		110 V	kW	0,8	0,8	1,5	2,2	3	3,7	4,4	5
				220/230 V	kW	1,5	2,2	3	4	6,5	6,5	10	11
				380-440 V	kW	2,2	3	5,5	6,5	8	11,5	11	15
	AC23A	IEC/VDE/BS *3 phase*		220/230 V	kW	3	5	6,5	8	8	12,5	25	30
				380-440 V	kW	5,5	7,5	11	15	18,5	30	40	45
				500-690 V	kW	7,5	7,5	11	18,5	22	30	33	37
		1 phase, 2 pole		110 V	kW	0,8	0,8	1,5	2,2	3	3,7	4,4	5
				220/230 V	kW	1,7	2,5	3,7	4	6	7,5	10	11
				380-440 V	kW	3	3,7	5,5	7,5	11	12,5	11	15
Motor switch	DOL	UL/CSA *3 phase*		120 V	HP	1,5	1,5	3	5	5	7,5	10	15
				240 V	HP	3	3	5	10	10	15	20	25
				480 V	HP	-	-	10	15	20	25	40	50
				600 V	HP	-	-	15	15	20	25	40	40
DC Switching capacity	DC21A T=1 ms *Rated current for 1 contact*		I_e	48 V	A	12	20	25	32	40	63	80	125
				60 V	A	12	20	25	32	40	50	80	80
				110 V	A	4	4	4	6	6	8	10	10
				220 V	A	0,6	0,6	0,7	0,9	0,9	1	-	1,2
				440 V	A	0,25	0,25	-	-	-	-	-	-
	DC23 T=15 ms *Rated current, (Number of series contacts)*		I_e	24 V	A	10(1)	20(1)	25(1)	32(1)	40(1)	50(1)	80(1)	125(1)
				48 V	A	10(2)	20(2)	25(2)	32(2)	40(2)	50(2)	80(2)	125(2)
				60 V	A	10(3)	20(3)	25(3)	32(3)	40(3)	50(3)	80(3)	125(3)
				110 V	A	5(3)	10(3)	12(3)	15(3)	20(3)	25(3)	50(3)	50(3)
				220 V	A	5(4)	8(4)	10(4)	12(4)	12(4)	15(4)	20(4)	20(4)
	DC13 T=50 ms *Rated current for 1 contact*		I_e	48 V	A	10	16	20	25	32	40	80	100
				60 V	A	8	12	16	16	16	28	50	50
				110 V	A	1	1	1,5	3	3	3,3	4	4
				220 V	A	0,4	0,4	0,4	0,5	-	-	-	-
				440 V	A	0,15	0,15	-	-	-	-	-	-
Mechanical durability			*Switching cycles*			$3x10^6$	$5x10^6$	$5x10^6$	$5x10^6$	$5x10^6$	$5x10^6$	$1x10^6$	$1x10^6$
Terminal screw					M	3	3	3,5	4	4	5	2 x 5	2 x 5
Conductor size		max. r/f			$2x\frac{mm^2}{AWG}$	2,5/2,5 12/14	2,5/2,5 12/14	4/4 10/12	6/4 8/10	10/6 8/10	16/10 6/8	70/50 2/0/1/0	70/50 2/0/1/0
r = *rigid* f = *flexible*		min. r/f			$2x\frac{mm^2}{AWG}$	0,5/0,5 20/20	0,5/0,5 20/20	0,5/0,5 20/20	1,5/1,5 16/16	1,5/1,5 16/16	2,5/2,5 14/14	2,5/2,5 14/14	2,5/2,5 14/14

(1) valid for neutral earthed systems, overvoltage category III, polution degree 3.

STANDARD MOUNTING FORMS

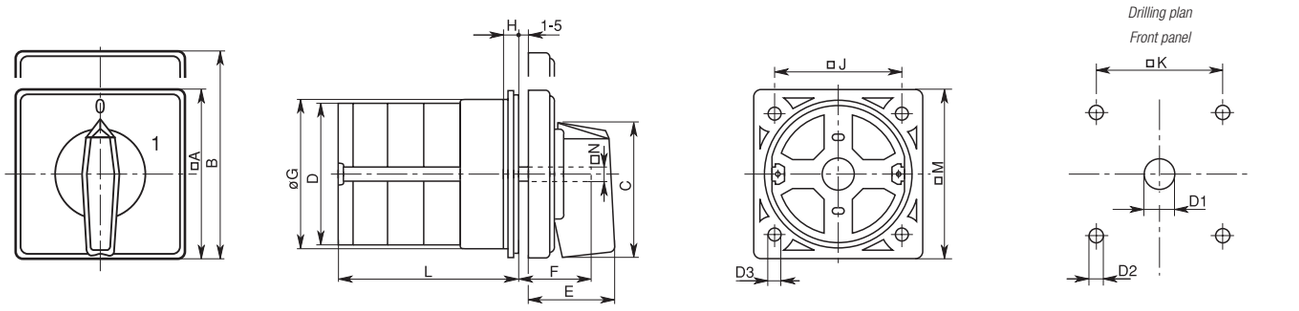
Mounting form	Marking	Protection		Type	Size	Outlook
		Front	Rear			
Front mounting	**U**	IP 40	IP 00	N12 N20 N25 N32 N40 N63 N80/N125	A0 A0 A0 A1 A1 A1 A2	
Front mounting with the bigger front part i.e. mounting size	**U**	IP 40	IP 00	N12H N20H N25H N32H N40H N63H	A1 A1 A1 A2 A2 A2	
Rear mounting	**O**	IP 40	IP 00	N12 N20 N25 N32 N40 N63 N80/N125	A0 A0 A0 A1 A1 A1 A2	
Rear mounting with the bigger front part i.e. mounting size	**O**	IP 40	IP 00	N12H N20H N25H N32H N40H N63H	A1 A1 A1 A2 A2 A2	
Switch in plastic casing	**P**	IP65 IP65 IP65 IP65 IP65 IP65 IP65		N12 N20 N25 N32 N40 N63 N80/N125		

MOUNTING SIZES

A0	A1	A2
N12 N20 N25	N32 N12H N40 N20H N63 N25H	N80 N32H N125 N40H N63H
		

DIMENSIONAL DRAWINGS (mm)

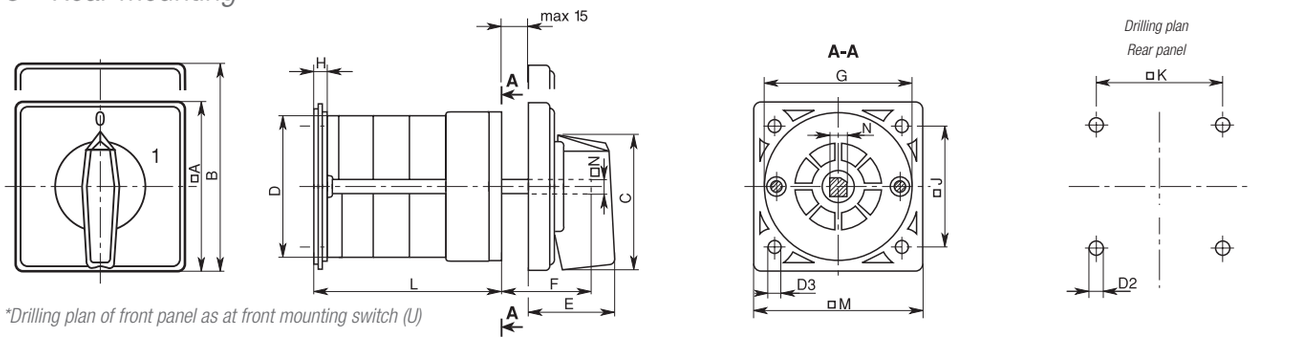
U - Front mounting



Type	Marking															L Number of elements											
	□A	B	C	D	D1	D2	D3	E	F	øG	H	□J	□K	□M	□N	1	2	3	4	5	6	7	8	9	10	11	12
N12	48	60	39,5	39	12	5	4,3	26,5	23,5	38	5	36	36	48	6	33,1	42,8	52,5	62,2	71,9	81,6	91,3	101	110,7	120,4	130,1	139,8
N12H	65	80	53	39	12	5	4,3	34,5	23,5	38	5,5	48	48	65	6	33,6	43,3	53	62,7	72,4	82,1	91,8	101,5	111,2	120,9	130,6	140,3
N20	48	60	39,5	39	12	5	4,3	26,5	23,5	38	5	36	36	48	6	33,1	42,8	52,5	62,2	71,9	81,6	91,3	101	110,7	120,4	130,1	139,8
N20H	65	80	53	39	12	5	4,3	34,5	23,5	38	5,5	48	48	65	6	33,6	43,3	53	62,7	72,4	82,1	91,8	101,5	111,2	120,9	130,6	140,3
N25	48	60	39,5	43	12	5	4,3	26,5	23,5	38	5	36	36	48	6	37,5	51,1	64,7	78,3	91,9	105,5	119,1	132,7	146,3	159,9	173,5	187,1
N25H	65	80	53	43	12	5	4,3	34,5	23,5	38	5,5	48	48	65	6	38	51,6	65,2	78,8	92,4	106	119,6	133,2	146,8	160,4	174	187,6
N32	65	80	53	56	14	5	4,3	34,5	26	58,5	5,5	48	48	65	7	40,9	54,5	68,1	81,7	95,3	108,9	122,5	136,1	149,7	163,3	176,9	190,5
N32H	90	110	70,5	56	14	6	5,3	41,5	36	58,5	7,5	68	68	90	7	41,6	55,2	68,8	82,4	96	109,6	123,2	136,8	150,4	164	177,6	191,2
N40	65	80	53	58	14	5	4,3	34,5	26	58,5	5,5	48	48	65	7	43,5	58,6	73,7	88,8	103,9	119	134,1	149,2	164,3	179,4	194,5	209,6
N40H	90	110	70,5	58	14	6	5,3	41,5	36	58,5	7,5	68	68	90	7	44,2	59,3	74,4	89,5	104,6	119,7	134,8	149,9	165	180,1	195,2	210,3
N63	65	80	53	62	14	5	4,3	34,5	26	58,5	5,5	48	48	65	7	47,3	65,4	83,5	101,6	119,7	137,8	155,9	174	192,1	210,2	228,3	246,4
N63H	90	110	70,5	62	14	6	5,3	41,5	36	58,5	7,5	68	68	90	7	48	66,1	84,2	102,3	120,4	138,5	156,6	174,7	192,8	210,9	229	247,1
N80/N125	90	110	70,5	86	16	6	5,3	41,5	28	84	7,5	68	68	90	9	67,3	96,4	125,5	154,6	183,7	220,3	249,4	278,5	307,6	336,7	365,8	394,9

**At the switch N125 with 6 and more elements the front plate is mounted also at the back side*

0 - Rear mounting



**Drilling plan of front panel as at front mounting switch (U)*

Type	Marking															L Number of elements											
	□A	B	C	D	D2	D3	E	F	øG	H	□J	□K	□M	□N	1	2	3	4	5	6	7	8	9	10	11	12
N12	48	60	39,5	39	5	4,3	26,5	32	38	5	36	36	48	6	38,1	47,8	57,5	67,2	76,9	86,6	96,3	106	115,7	125,4	135,1	144,8
N12H	65	80	53	39	5	4,3	34,5	32	38	5,5	48	48	65	6	38,6	48,3	58	67,7	77,4	87,1	96,8	106,5	116,2	125,9	135,6	145,3
N20	48	60	39,5	39	5	4,3	26,5	32	38	5	36	36	48	6	38,1	47,8	57,5	67,2	76,9	86,6	96,3	106	115,7	125,4	135,1	144,8
N20H	65	80	53	39	5	4,3	34,5	32	38	5,5	48	48	65	6	38,6	48,3	58	67,7	77,4	87,1	96,8	106,5	116,2	125,9	135,6	145,3
N25	48	60	39,5	43	5	4,3	26,5	32	38	5	36	36	48	6	42,5	56,1	69,7	83,3	96,9	110,5	124,1	137,7	151,3	164,9	178,5	192,1
N25H	65	80	53	43	5	4,3	34,5	32	38	5,5	48	48	65	6	43	56,6	70,2	83,8	97,4	111	124,6	138,2	151,8	165,4	179	192,6
N32	65	80	53	56	5	4,3	34,5	36	58,5	5,5	48	48	65	7	45,9	59,5	73,1	86,7	100,3	113,9	127,5	141,1	154,7	168,3	181,9	195,5
N32H	90	110	70,5	56	6	5,3	41,5	36	58,5	7,5	68	68	90	7	46,6	60,2	73,8	87,4	101	114,6	128,2	141,8	155,4	169	182,6	196,2
N40	65	80	53	58	5	4,3	34,5	36	58,5	5,5	48	48	65	7	48,5	63,6	78,7	93,8	108,9	124	139,1	154,2	169,3	184,4	199,5	214,6
N40H	90	110	70,5	58	6	5,3	41,5	36	58,5	7,5	68	68	90	7	49,2	64,3	79,4	94,5	109,6	124,7	139,8	154,9	170	185,1	200,2	215,3
N63	65	80	53	62	6	5,3	34,5	36	58,5	7,5	68	68	90	7	54,3	72,4	90,5	108,6	126,7	144,8	162,9	181	199,1	217,2	235,3	253,4
N63H	90	110	70,5	62	6	5,3	41,5	36	58,5	7,5	68	68	90	7	55	73,1	91,2	109,3	127,4	145,5	163,6	181,7	199,8	217,9	236	254,1
N80/N125	90	110	70,5	86	6	5,3	41,5	38	84	7,5	68	68	90	9	74,8	103,9	133	162,1	191,2	220,3	249,4	278,5	307,6	336,7	365,8	394,9

**At the switch N125 with 6 and more elements the front plate is mounted also at the front side*

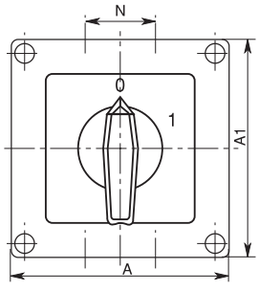
B - Switch with bigger locating device

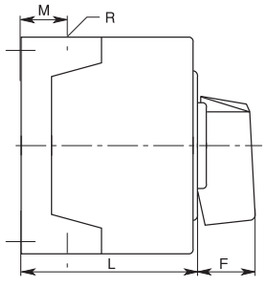
Type	L Number of elements											
	1	2	3	4	5	6	7	8	9	10	11	12
N12B - U	39,8	49,5	59,2	68,9	78,6	88,3	98	107,7	117,4	127,1	136,9	146,5
N20B - U	39,8	49,5	59,2	68,9	78,6	88,3	98	107,7	117,4	127,1	136,9	146,5
N25B - U	44,2	57,8	71,4	85	98,6	112,2	125,8	139,4	153	166,6	180,2	193,8
N32B - U	51,3	64,9	78,5	92,1	105,7	119,3	132,9	146,5	160,1	173,7	187,3	200,9
N40B - U	53,9	69	84,1	99,2	114,3	129,4	144,5	159,6	174,7	189,8	204,9	220
N63B - U	57,7	75,8	93,9	112	130,1	148,2	166,3	184,4	202,5	220,6	238,7	256,8

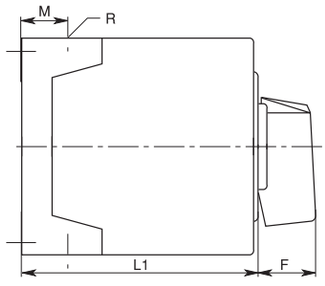
Type	L Number of elements											
	1	2	3	4	5	6	7	8	9	10	11	12
N12B - 0	44,8	54,5	64,2	73,9	83,6	93,3	103	112,7	122,4	132,1	141,8	151,5
N20B - 0	44,8	54,5	64,2	73,9	83,6	93,3	103	112,7	122,4	132,1	141,8	151,5
N25B - 0	49,2	62,8	76,4	90	103,6	117,2	130,8	144,8	158	171,6	185,2	198,8
N32B - 0	58,8	72,4	86	99,6	113,2	126,8	140,4	154	167,6	181,2	194,8	208,4
N40B - 0	61,4	76,5	91,6	106,7	121,8	136,9	152	167,1	182,2	197,3	212,4	227,5
N63B - 0	65,2	83,3	101,4	119,5	137,6	155,7	173,8	195,9	210	228,1	246,2	264,3

DIMENSIONAL DRAWINGS (mm)

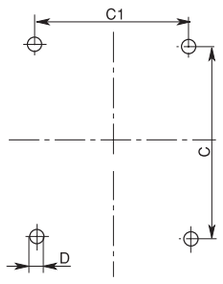
P - SWITCH IN PLASTIC CASING







Drilling plan



Type	Housing size	Number of elements L	Number of elements L1	A	A1	C	C1	D	F	M	N	L	L1	Protection	Conduit entries R(Pg)		Conduit entries R(M...x1,5)
N12 **N20** **N25**	75x75	1-2 1-2 1	3-4 3-4 2-3	75	75	50	64	4,5	19	14	28	57,5	79,8	IP65	4xPg13,5	ili / or	4xM20
N12 **N20** **N25** **N32**	90x90	1-3 1-3 1-2 1-2	4-6 4-6 3-4 3-4	90	90	79	63	4,5	25	19	30	71,3	98,3	IP65	4xPg16	ili / or	4xM20
N12 **N20** **N25** **N32** **N40** **N63**	110x110	1-4 1-4 1-3 1-3 1-2 1-2	5-8 5-8 4-5 4-5 3-5 3-4	110	110	98,4	83	4,5	32	21	39,5	85,5	119,5	IP65	4xPg21	ili / or	4xM25
N32 **N40** **N63** **N80/N125**	125x175	1-3 1-2 1-2 1	4-5 3-4 3-4 2	125	175	146	112	5,5	32	21	68	84,3	118,3	IP65	4xPg21+2xPg11	ili / or	4xM25+2xM16
N32 **N40** **N63** **N80/N125**	180x254	1-5 1-4 1-3 1-2	6-8 5-7 4-6 3-4	180	254	120	190	5,5	32	35	76	121	175	IP65	4xPg29+2xPg11	ili / or	4xM32+2xM16

APPROVALS

LAND	*SYMBOL*	N12	N20	N25	N32	N40	N63	N80/N125
USA		■	■	■	■	■	■	■
Kanada *Canada*		■	■	■	■	■	■	■
Nizozemska *Netherland*		■	■	■	■	■	■	■
Rusija *Russia*		■	■	■	■	■	■	■
Lloyd's Register of Shipping		■	■	■	■	■	■	□
Bureau Veritas		■	■	■	■	■	■	■
Hrvatski registar brodova *Croatia Register of Shipping*		■	■	■	■	□	■	□

■ *Switch approved*

□ *Approval pending*

PLASTIC CASING SELECTION

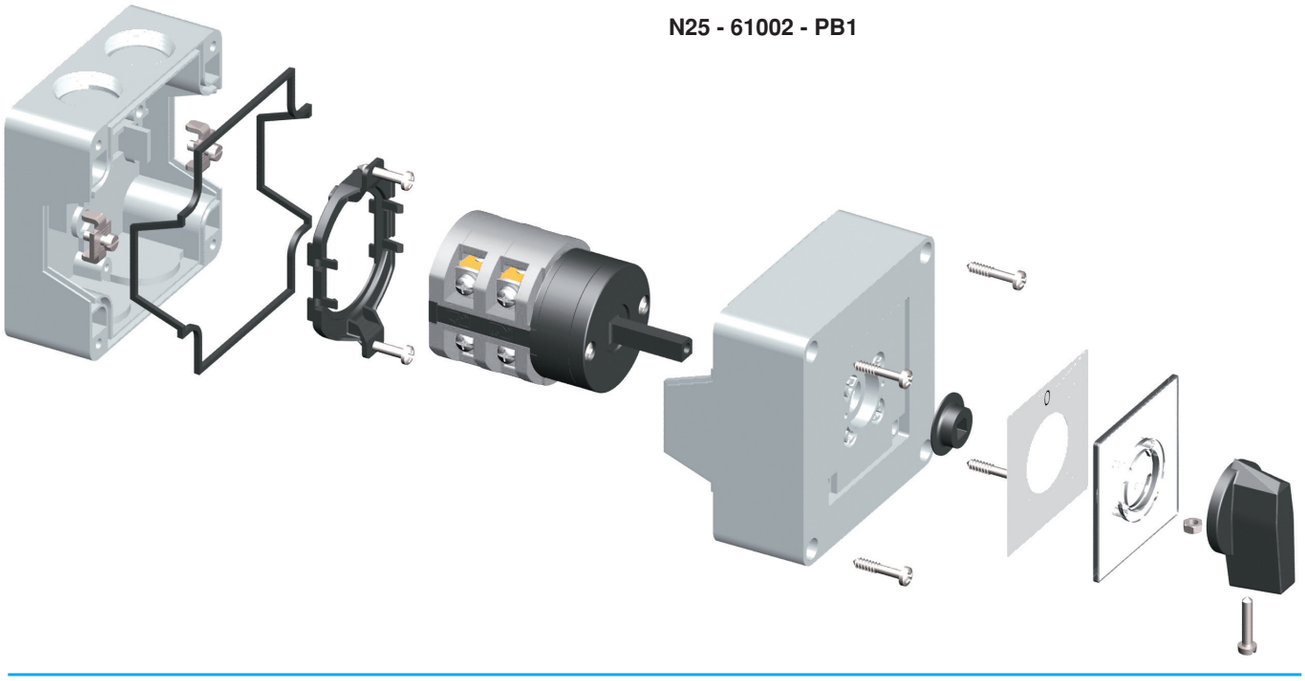
			CODE	
Casing size (mm)	*Protection*	*Conduit entries*	*Housing type*	*Switch type*
75x75	IP65	4xPg13,5		N12/N20/N25
	IP65	4xM20x1,5	B1	N12/N20/N25
90x90	IP65	4xPg16		N32
	IP65	4xPg16	C1	N12/N20/N25/N40
	IP65	4xM20x1,5	C2	N12/N20/N25/N32/N40
110x110	IP65	4xPg21		N40
	IP65	4xPg21	E1	N32/N63
	IP65	4xM25x1,5	E2	N25/N32/N40/N63
125x175	IP65	4xPg21+2xPg11		N63
	IP65	4xPg21+2xPg11	D1	N32/N40/N63/N80/N125
	IP65	4xM25x1,5+2xM16x1,5	D2	N32/N40/N63/N80/N125
180x254	IP65	4xPg29+2xPg11		N80/N125
	IP65	4xM32x1,5+2xM16x1,5	F1	N32/N40/N63/N80/N125
	IP65	4xPg29+2xPg11	F2	N32/N40/N63

EXAMPLE: For the switch N25 switching diagram 61002, standard color combination, plastic casing 75 x 75, with standard protection and conduit entries, the ordering code is:

N25 - 61002 - P

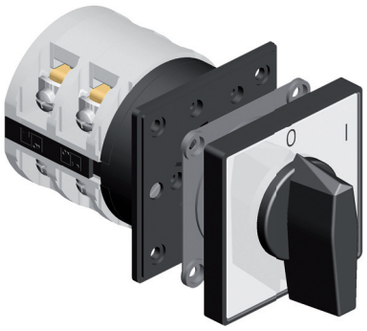
The same switch in the same casing but with conduit entries 4 x M20 x 1,5 has the ordering code:

N25 - 61002 - PB1



OPTIONAL EXTRAS

INCREASED PROTECTION DEGREE

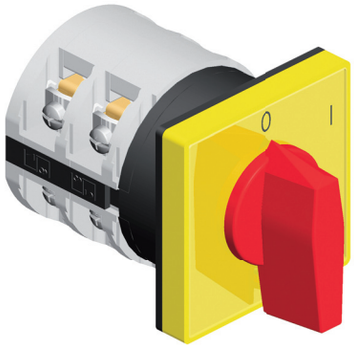


51

Front protection IP65

			CODE
N12	U		61
N12H	U		51
N20	U		51
N20H	U		51
N25	U		51
N25H	U		51
N32	U		51
N32H	U		51
N40	U		51
N40H	U		51
N63	U		51
N63H	U		51
N80	U		51
N125	U		51
N12	O		51
N12H	O		51
N20	O		51
N20H	O		51
N25	O		51
N25H	O		51
N32	O		51
N32H	O		51
N40	O		51
N40H	O		51
N63	O		51
N63H	O		51
N80	O		51
N125	O		51

EMERGENCY OFF SWITCH

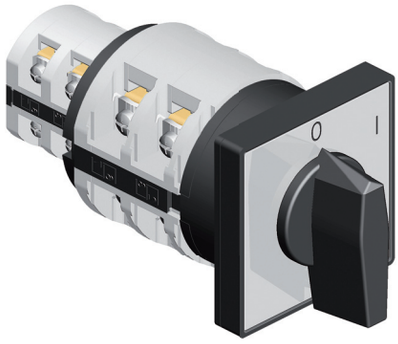


24

Standard switch with yellow front plate, yellow escutcheon plate and red handle.

			CODE
N12	U		24
N12H	U		24
N20	U		24
N20H	U		24
N25	U		24
N25H	U		24
N32	U		24
N32H	U		24
N40	U		24
N40H	U		24
N63	U		24
N63H	U		24
N80	U		24
N125	U		24
N12	O		24
N12H	O		24
N20	O		24
N20H	O		24
N25	O		24
N25H	O		24
N32	O		24
N32H	O		24
N40	O		24
N40H	O		24
N63	O		24
N63H	O		24
N80	O		24
N125	O		24

AUXILIARY CONTACTS



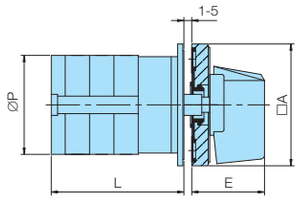
04

It is necessary to define switch type (N12, N20, N25) and switching diagram of the auxiliary contacts.

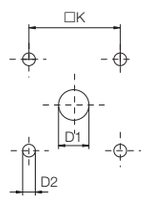
			CODE
N32	U		04
N32H	U		04
N40	U		04
N40H	U		04
N63	U		04
N63H	U		04
N80	U		04
N125	U		04

DIMENSIONAL DRAWINGS (mm)

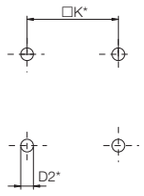
Drilling plan
Rear panel

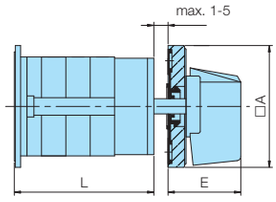


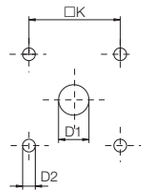
Drilling plan
Front panel



Type	Marking						L			
	□A	D1	D2	E	□K	ØP	1	2	3	...12
N 12	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8
N 12H	65	12	5	34,5	48	58	33,6	43,3	53	140,3
N 20	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8
N 20H	65	12	5	34,5	48	58	33,6	43,3	53	140,3
N 25	48	12	5	26,5	36	43	37,5	51,1	64,7	187,1
N 25H	65	12	5	34,5	48	58	38	51,6	65,2	187,6
N 32	65	14	5	34,5	48	58,5	40,9	54,5	68,1	190,5
N 32H	90	14	6	41,5	68	84	41,6	55,2	68,8	191,2
N 40	65	14	5	34,5	48	58,5	43,5	58,6	73,7	209,6
N 40H	90	14	6	41,5	68	84	44,2	59,3	74,4	210,3
N 63	65	14	5	34,5	48	62	47,3	65,4	83,5	246,4
N 63H	90	14	6	41,5	68	84	48	66,1	84,2	247,1
N 80/N 125	90	16	6	41,5	68	86,5	67,3	96,4	125,5	394,9

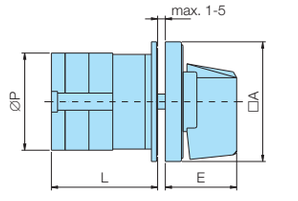


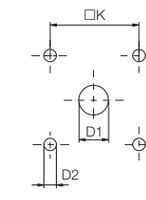




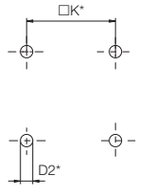
Type	Marking					L			
	□A	D1	D2	E	□K	1	2	3	...12
N 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48	38,6	48,3	58	145,3
N 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48	38,6	48,3	58	145,3
N 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48	43	56,6	70,2	192,6
N 32	65	14	5	34,5	48	45,9	59,5	73,1	195,5
N 32H	90	14	6	41,5	68	46,6	60,2	73,8	196,2
N 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6
N 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3
N 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4
N 63H	90	14	6	41,5	68	55	73,1	91,2	254,1
N 80/N 125	90	16	6	41,5	68	74,8	103,9	133	394,9

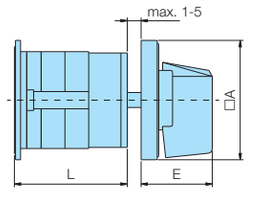
* *for* N63 D2*=6 □K*=68

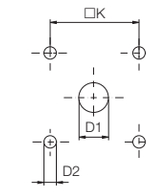




Type	Marking						L	
	□A	D1	D2	E	□K	ØP	1	2
N 12	48	12	5	26,5	36	39	33,1	42,8
N 12H	65	12	5	34,5	48	58	33,6	43,3
N 20	48	12	5	26,5	36	39	33,1	42,8
N 20H	65	12	5	34,5	48	58	33,6	43,3
N 25	48	12	5	26,5	36	43	37,5	51,1
N 25H	65	12	5	34,5	48	58	38	51,6
N 32	65	14	5	34,5	48	58,5	40,9	54,5
N 32H	90	14	6	41,5	68	84	41,6	55,2
N 40	65	14	5	34,5	48	58,5	43,5	58,6
N 40H	90	14	6	41,5	68	84	44,2	59,3
N 63	65	14	5	34,5	48	62	47,3	65,4
N 63H	90	14	6	41,5	68	84	48	66,1
N 80/N 125	90	16	6	41,5	68	88	67,3	96,4

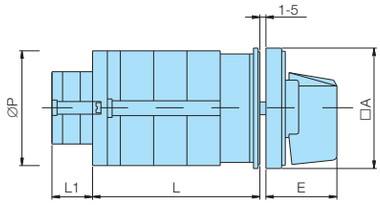


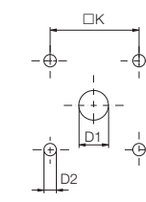




Type	Marking					L	
	□A	D1	D2	E	□K	1	2
N 12	48	12	5	26,5	36	38,1	47,8
N 12H	65	12	5	34,5	48	38,6	48,3
N 20	48	12	5	26,5	36	38,1	47,8
N 20H	65	12	5	34,5	48	38,6	48,3
N 25	48	12	5	26,5	36	42,5	56,1
N 25H	65	12	5	34,5	48	43	56,6
N 32	65	14	5	34,5	48	45,9	59,5
N 32H	90	14	6	41,5	68	46,6	60,2
N 40	65	14	5	34,5	48	48,5	63,6
N 40H	90	14	6	41,5	68	49,2	64,3
N 63*	65	14	5	34,5	48	54,3	72,4
N 63H	90	14	6	41,5	68	55	73,1
N 80/N 125	90	16	6	41,5	68	74,8	103,9

* *for* N63 D2*=6 □K*=68





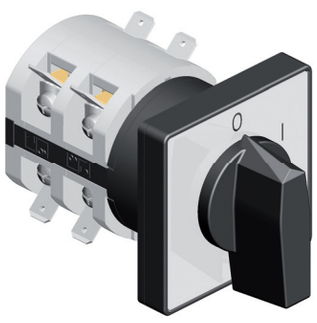
Type	Marking						L			
	□A	D1	D2	E	□K	ØP	1	2	3	6...12
N 32	65	14	5	34,5	48	58,5	47,4	61	74,6	115,4 193,6
N 32H	90	14	6	41,5	68	84	48,1	61,7	75,3	116,1 197,7
N 40	65	14	5	34,5	48	58,5	50	65,1	80,2	125,5 216,1
N 40H	90	14	6	41,5	68	84	50,7	65,8	80,9	126,2 216,8
N 63	65	14	5	34,5	48	62	53,8	71,9	90	144,3 252,9
N 63H	90	14	6	41,5	68	84	54,5	72,6	90,7	145 253,6
N 80/N 125	90	16	6	41,5	68	88	67,3	96,4	125,5	212,8 -

Type	L1 / N32, N40, N63			
	1	2	3	...12
N 12	33,1	42,8	52,5	139,8
N 20	33,1	42,8	52,5	139,8
N 25	37,5	51,1	60,8	183,2

Type	L1 / N80, N125			
	1	2	3	...12
N 12	20,3	30	39,7	127
N 20	20,3	30	39,7	127
N 25	24,7	38,3	51,9	174,3

OPTIONAL EXTRAS

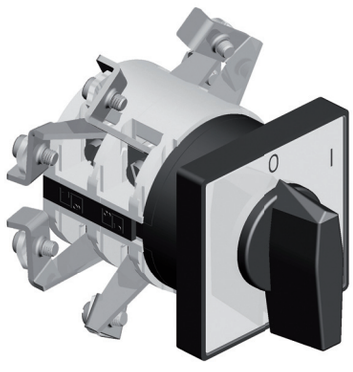
EXTENSION TERMINALS



03

Fast-on terminals

AMP 4,8 N12, N20
AMP 6,3 N25, N32



53

Relief the cable connection

53D

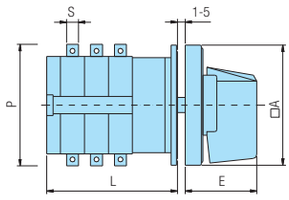
Terminal lugs facilitate the connecting

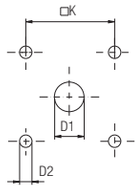
CODE			
N12	U	03
N12H	U	03
N20	U	03
N20H	U	03
N25	U	03
N25H	U	03
N32	U	03
N32H	U	03
N12	O	03
N12H	O	03
N20	O	03
N20H	O	03
N25	O	03
N25H	O	03
N32	O	03
N32H	O	03
N40	U	53
N40H	U	53
N63	U	53
N63H	U	53
N40	O	53
N40H	O	53
N63	O	53
N63H	O	53
N63	U	53D
N63H	U	53D
N80	U	53D
N125	U	53D
N63	O	53D
N63H	O	53D
N80	O	53D
N125	O	53D

DIMENSIONAL DRAWINGS (mm)

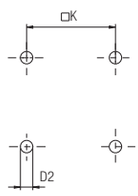
Drilling plan
Rear panel

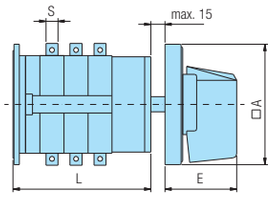
Drilling plan
Front panel

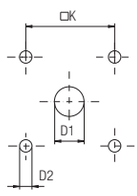




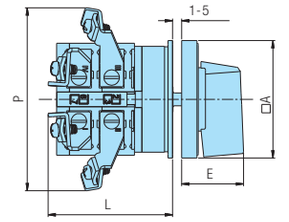
Type	Marking							L			
	□A	D1	D2	E	□K	P	S	1	2	3.....12	
N 12	48	12	5	26,5	36	39	4,8	33,1	42,8	52,5	139,8
N 12H	65	12	5	34,5	48	58	4,8	33,6	43,3	53	140,3
N 20	48	12	5	26,5	36	39	4,8	33,1	42,8	52,5	139,8
N 20H	65	12	5	34,5	48	58	4,8	33,6	43,3	53	140,3
N 25	48	12	5	26,5	36	43	6,3	37,5	51,1	64,7	187,1
N 25H	65	12	5	34,5	48	58	6,3	38	51,6	65,2	187,6
N 32	65	14	5	34,5	48	58,5	6,3	40,9	54,5	68,1	190,5
N 32H	90	14	6	41,5	68	84	6,3	41,6	55,2	68,8	191,2

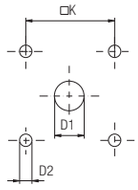




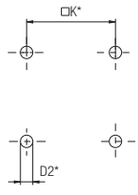


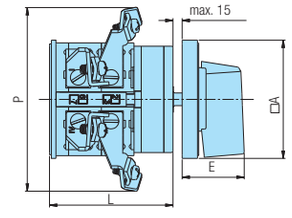
Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12	48	12	5	26,5	36	4,8	38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48	4,8	38,6	48,3	58	145,3
N 20	48	12	5	26,5	36	4,8	38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48	4,8	38,6	48,3	58	145,3
N 25	48	12	5	26,5	36	6,3	42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48	6,3	43	56,6	70,2	192,6
N 32	65	14	5	34,5	48	6,3	45,9	59,5	73,1	195,5
N 32H	90	14	6	41,5	68	6,3	46,6	60,2	73,8	196,2

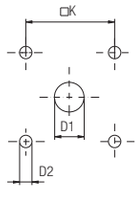




Type	Marking						L			
	□A	D1	D2	E	□K	P	1	2	3.....12	
N 40	65	14	5	34,5	48	85x87	43,5	58,6	73,7	209,6
N 40H	90	14	6	41,5	68	85x87	44,2	59,3	74,4	210,3
N 63	65	14	5	34,5	48	89x102	47,3	65,4	83,5	246,4
N 63H	90	14	6	41,5	68	89x102	48	66,1	84,2	247,1

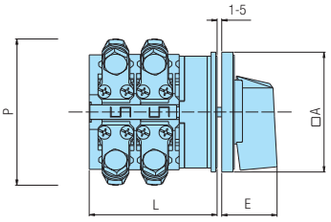


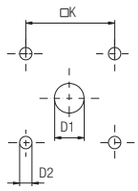




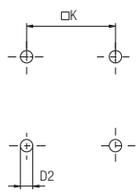
Type	Marking						L			
	A	D1	D2	E	□K	P	1	2	3.....12	
N 40	65	14	5	34,5	48	85x87	48,5	63,6	78,7	214,6
N 40H	90	14	6	41,5	68	85x87	49,2	64,3	79,4	215,3
N 63*	65	14	5	34,5	48	89x102	54,3	72,4	90,5	253,4
N 63H	90	14	6	41,5	68	89x102	55	73,1	91,2	254,1

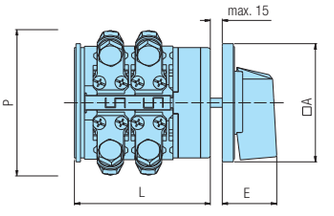
* *for* N63 D2*=6 □K*=68

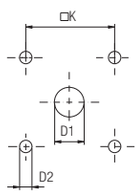




Type	Marking						L			
	□A	D1	D2	E	□K	P	1	2	3.....12	
N 63	65	14	5	34,5	48	80x100	47,3	65,4	83,5	246,4
N 63H	90	16	6	41,5	68	80x100	48	66,1	84,2	247,1
N 80/N 125	90	16	6	41,5	68	110x110	67,3	96,4	125,5	387,4





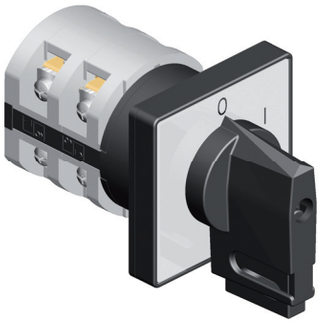


Type	Marking						L			
	□A	D1	D2	E	□K	P	1	2	3.....12	
N 63*	65	14	5	34,5	48	80x100	54,3	72,4	90,5	253,4
N 63H	90	16	6	41,5	68	80x100	55	73,1	91,2	254,1
N 80/N 125	90	16	6	41,5	68	110x110	74,8	103,9	133	394,9

* *for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

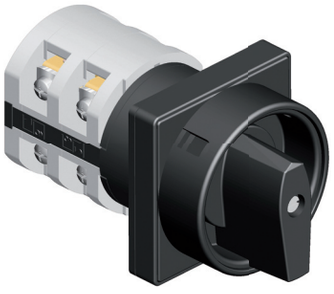
SWITCHES WITH LOCKING



56

In standard manner locking is in "0"
- possible in other positions, too (please define)
It is possible to use 1-3 padlocks.

HANDLE	FRONT PLATE	ESCUTCH. PLATE	Y CODE
black	black	white	
grey	grey	white	20
red - yellow	yellow	yellow	40



06

In standard manner locking is in "0"
Used at switches 0-1 (60°, 90°). Possible use (60°) with several positions (max. 6).

HANDLE	COVER PLATE	FRONT PLATE	Y CODE
black	black	black	
grey	grey	grey	20
red	yellow	yellow	40

06D

In standard manner locking is in "0"
- possible in other positions, too (please define)
It is possible to use 1-4 padlocks.

HANDLE	COVER PLATE	FRONT PLATE	Y CODE
black	black	black	
grey	grey	grey	20
red	yellow	yellow	40

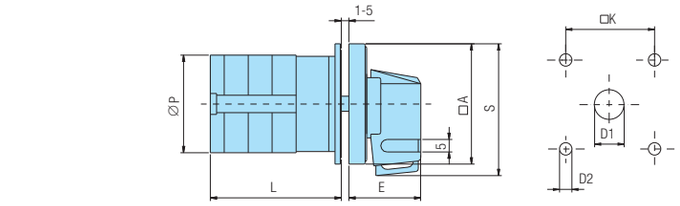
CODE

N12	U		56
N20	U		56
N25	U		56
N12		O	56
N20		O	56
N25		O	56
N12	U		06
N12H	U		06
N20	U		06
N20H	U		06
N25	U		06
N25H	U		06
N32	U		06
N32H	U		06
N40	U		06
N40H	U		06
N63	U		06
N63H	U		06
N80	U		06
N125	U		06
N12		O	06
N12H		O	06
N20		O	06
N20H		O	06
N25		O	06
N25H		O	06
N32		O	06
N32H		O	06
N40		O	06
N40H		O	06
N63		O	06
N63H		O	06
N80		O	06
N125		O	06
N32H	U		06D
N40H	U		06D
N63H	U		06D
N80	U		06D
N125	U		06D
N32H		O	06D
N40H		O	06D
N63H		O	06D
N80		O	06D
N125		O	06D

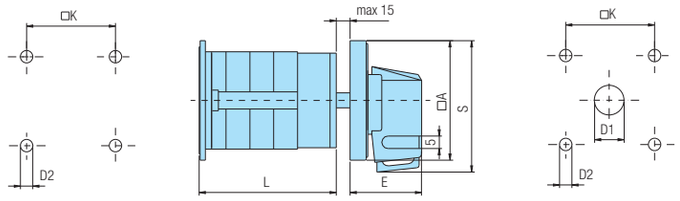
DIMENSIONAL DRAWINGS (mm)

Drilling plan
Rear panel

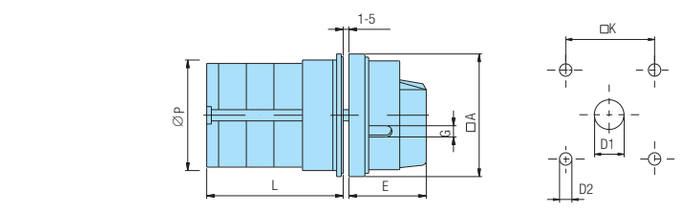
Drilling plan
Front panel



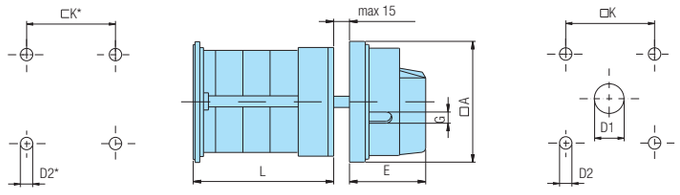
Type	Marking							L			
	□A	D1	D2	E	□K	ØP	S	1	2	3.....12	
N 12	48	12	5	34,5	36	39	57	33,1	42,8	52,5	139,8
N 20	48	12	5	34,5	36	39	57	33,1	42,8	52,5	139,8
N 25	48	12	5	34,5	36	43	57	37,5	51,1	64,7	187,1



Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12	48	12	5	34,5	36	57	38,1	47,8	57,5	144,8
N 20	48	12	5	34,5	36	57	38,1	47,8	57,5	144,8
N 25	48	12	5	34,5	36	57	42,5	56,1	69,7	192,1

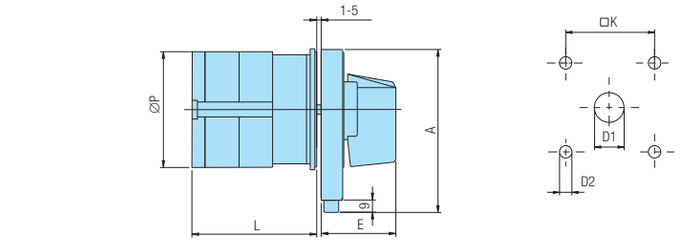


Type	Marking							L			
	□A	D1	D2	E	G	□K	ØP	1	2	3.....12	
N 12	48	12	5	34,2	5	36	39	33,1	42,8	52,5	139,8
N 12H	65	12	5	38	6	48	58	33,6	43,3	53	140,3
N 20	48	12	5	34,2	5	36	39	33,1	42,8	52,5	139,8
N 20H	65	12	5	38	6	48	58	33,6	43,3	53	140,3
N 25	48	12	5	34,2	5	36	43	37,5	51,1	64,7	187,1
N 25H	65	12	5	38	6	48	58	38	51,6	65,2	187,6
N 32	65	14	5	38	6	48	58,5	40,9	54,5	68,1	190,5
N 32H	90	14	6	49	7	68	84	41,6	55,2	68,8	191,2
N 40	65	14	5	38	6	48	58,5	43,5	58,6	73,7	209,6
N 40H	90	14	6	49	7	68	84	44,2	59,3	74,4	210,3
N 63	65	14	5	38	6	48	62	47,3	65,4	83,5	246,4
N 63H	90	14	6	49	7	68	84	48	66,1	84,2	247,1
N 80/N 125	90	16	6	49	7	68	86,5	67,3	96,4	125,5	387,4

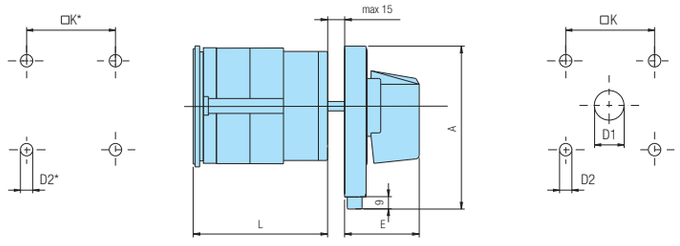


Type	Marking						L			
	□A	D1	D2	E	G	□K	1	2	3.....12	
N 12	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
N 12H	65	12	5	38	6	48	38,6	48,3	58	145,3
N 20	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
N 20H	65	12	5	38	6	48	38,6	48,3	58	145,3
N 25	48	12	5	34,2	5	36	42,5	56,1	69,7	192,1
N 25H	65	12	5	38	6	48	43	56,6	70,2	192,6
N 32	65	14	5	38	6	48	45,9	59,5	73,1	195,5
N 32H	90	14	6	49	7	68	46,6	60,2	73,8	196,2
N 40	65	14	5	38	6	48	48,5	63,6	78,7	214,6
N 40H	90	14	6	49	7	68	49,2	64,3	79,4	215,3
N 63*	65	14	5	38	6	48	54,3	72,4	90,5	253,4
N 63H	90	14	6	49	7	68	55	73,1	91,2	254,1
N 80/N 125	90	16	6	49	7	68	74,8	103,9	133	394,9

* *or* N63 D2*=6 □K*=68



Type	Marking						L			
	A	D1	D2	E	□K	ØP	1	2	3 12	
N 32H	90x112	14	6	48	68	58,5	41,6	55,2	68,8	191,2
N 40H	90x112	14	6	48	68	58,5	44,2	59,3	74,4	210,3
N 63H	90x112	14	6	48	68	62	48	66,1	84,2	247,1
N 80/N 125	90x112	16	6	48	68	86,5	67,3	96,4	125,5	394,9



Type	Marking					L			
	A	D1	D2	E	□K	1	2	3.....12	
N 32H	90x112	14	6	48	68	46,6	60,2	73,8	196,2
N 40H	90x112	14	6	48	68	49,2	64,3	79,4	215,3
N 63H	90x112	14	6	48	68	55	73,1	91,2	254,1
N 80/N 125	90x112	16	6	48	68	74,8	103,9	133	394,9

* *for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

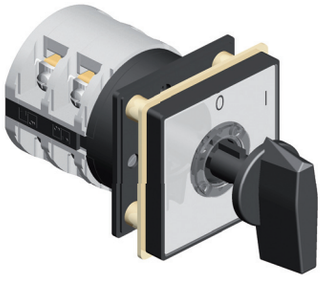
CODE

SWITCHES WITH LOCKING

05

In standard manner locking is in "0"
- possible in other positions, too (please define)
The key can be pulled out only in locked position.

N12H	U	U	05
N20H	U	U	05
N25H	U	U	05
N32	U	U	05
N32B	U	U	05
N40	U	U	05
N40B	U	U	05
N63	U	U	05
N63B	U	U	05
N80	U	U	05
N125	U	U	05

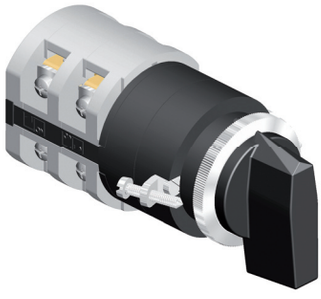


13

Socket key. In a standard manner pull-out of the key in "0". Possible in other positions at the angle of 90° (please define).

N12H	U	U	13
N20H	U	U	13
N25H	U	U	13
N32	U	U	13
N40	U	U	13
N63	U	U	13

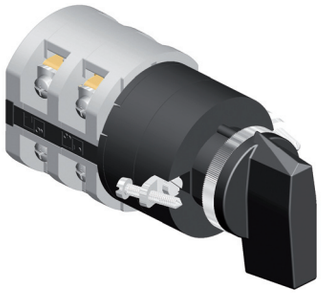
CENTRAL MOUNTING



09

Mounting into ∅30 mm

N12	U	U	09
N20	U	U	09
N25	U	U	09



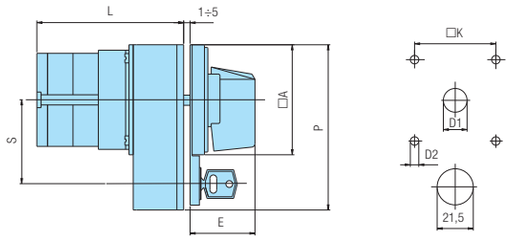
11

Mounting into ∅22 mm

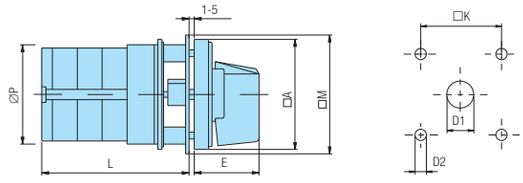
N12	U	U	11
N20	U	U	11
N25	U	U	11

DIMENSIONAL DRAWINGS (mm)

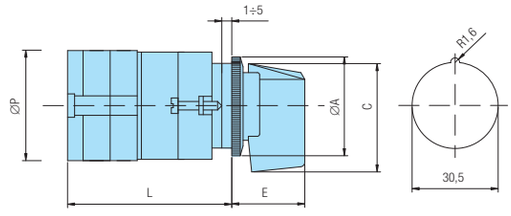
Drilling plan
Front panel



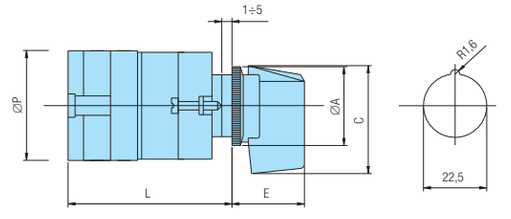
Type	Marking							L			
	□A	D1	D2	E	□K	P	S	1	2	3	...12
N 12H	65	12	5	34,5	48	65x98	48	63,6	73,3	83	170,3
N 20H	65	12	5	34,5	48	65x98	48	63,6	73,3	83	170,3
N 25H	65	12	5	34,5	48	65x98	48	68	81,6	95,2	217,6
N 32	65	14	5	34,5	48	65x98	48	70,9	84,5	98,1	220,5
N 32B	90	16	6	41,5	68	90x122	60	79,8	93,4	107	229,4
N 40	65	14	5	34,5	48	65x98	48	73,5	88,6	103,7	239,6
N 40B	90	16	6	41,5	68	90x122	60	82,4	97,5	112,6	248,5
N 63	65	14	5	34,5	48	65x98	48	77,3	95,4	113,5	276,4
N 63B	90	16	6	41,5	68	90x122	60	86,2	104,3	122,4	256,8
N 80/N 125	90	16	6	41,5	68	90x122	60	95,8	124,9	154	423,4



Type	Marking							L			
	□A	D1	D2	E	□M	□K	ØP	1	2	3	...12
N 12H	65	12	5	34,5	70	48	58	48,6	58,3	68	155,3
N 20H	65	12	5	34,5	70	48	58	48,6	58,3	68	155,3
N 25H	65	12	5	34,5	70	48	58	53	67	80,2	202,6
N 32	65	14	5	34,5	70	48	58,5	55,9	69,5	83,1	205,5
N 40	65	14	5	34,5	70	48	58,5	58,5	73,6	88,7	224,6
N 63	65	14	5	34,5	70	48	62	62,3	80,4	98,5	261,4



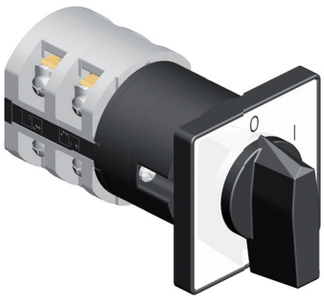
Type	Marking				L			
	ØA	C	E	ØP	1	2	3	...12
N 12	35	39,5	23	58	47,1	56,8	66,5	153,8
N 20	35	39,5	23	58	47,1	56,8	66,5	153,8
N 25	35	39,5	23	58	51,5	65,1	78,7	201,1



Type	Marking				L			
	ØA	C	E	ØP	1	2	3	...12
N 12	28	39,5	23	58	47,1	56,8	66,5	153,8
N 20	28	39,5	23	58	47,1	56,8	66,5	153,8
N 25	28	39,5	23	58	51,5	65,1	78,7	201,1

OPTIONAL EXTRAS

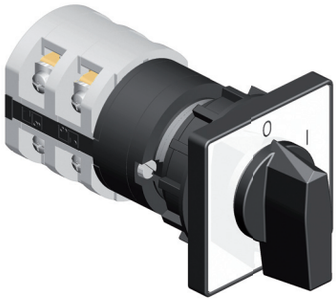
CENTRAL MOUNTING



20

Mounting into ∅22 mm or ∅30 mm with two screws.

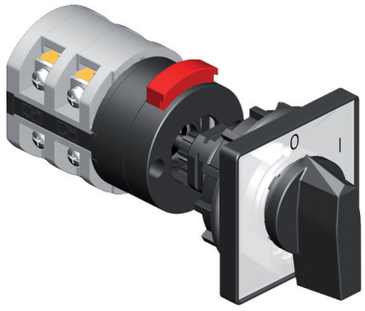
CODE			
N12	.....	U	20
N20	.....	U	20
N25	.....	U	20



36
37

Quick mounting into ∅22 mm (optional extra 36) or into ∅30 mm (optional extra 37).

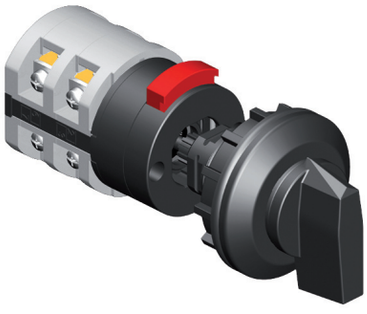
CODE				or
N12	.....	U	36	37
N20	.....	U	36	37
N25	.....	U	36	37



47

Quick mounting into ∅22 mm. Snap-on mounting of contact block with front part (separation in position "0").

CODE			
N12	.....	U	47
N20	.....	U	47
N25	.....	U	47



67

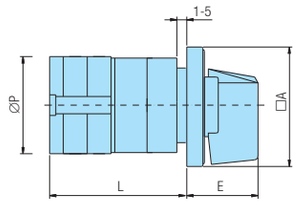
Quick mounting into ∅22 mm. Snap-on mounting of contact block with front part (separation in position "0").

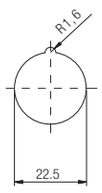
CODE			
N12	.....	U	67
N20	.....	U	67
N25	.....	U	67

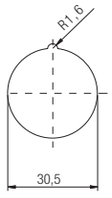
DIMENSIONAL DRAWINGS (mm)

Drilling plan

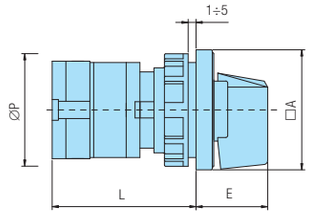
Front panel

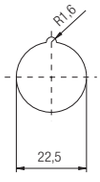


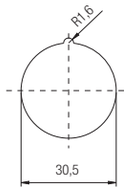




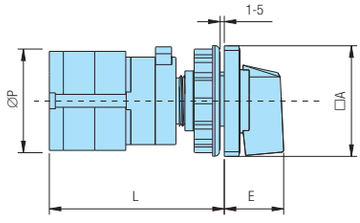
Type	Marking			L			
	□A	E	ØP	1	2	3...	...12
N 12	48	26,5	39	42,3	52	61,7	149
N 20	48	26,5	39	42,3	52	61,7	149
N 25	48	26,5	43	46,7	60,3	73,9	196,3

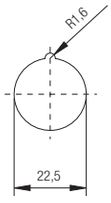




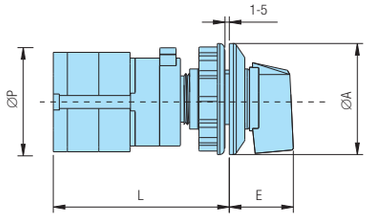


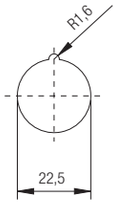
Type	Marking			L			
	□A	E	ØP	1	2	3...	...12
N 12	48	26,5	45	53	62,7	72,4	159,7
N 20	48	26,5	45	53	62,7	72,4	159,7
N 25	48	26,5	45	57,4	71	84,6	207





Type	Marking			L			
	□A	E	ØP	1	2	3...	...12
N 12	48	26,5	45,4	58	67,7	77,4	164,7
N 20	48	26,5	45,4	58	67,7	77,4	164,7
N 25	48	26,5	45,4	62,4	76	89,6	212

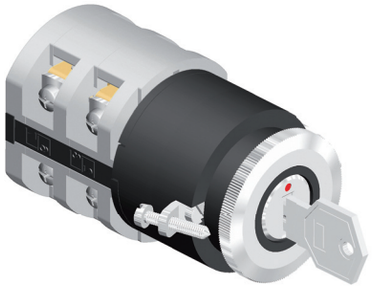




Type	Marking			L			
	ØA	E	ØP	1	2	3...	...12
N 12	48	28	45,4	58	67,7	77,4	164,7
N 20	48	28	45,4	58	67,7	77,4	164,7
N 25	48	28	45,4	62,4	76	89,6	212

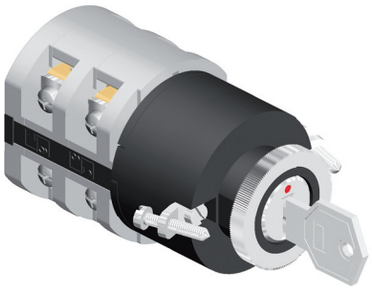
OPTIONAL EXTRAS

CENTRAL MOUNTING-SWITCHES WITH LOCKING



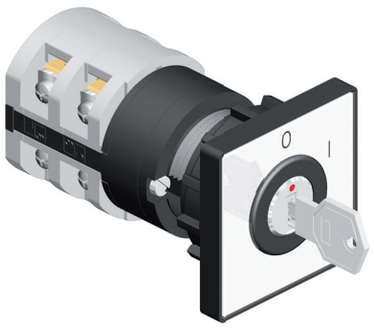
10

Mounting into ∅30 mm.
Locking and pull-out of the key at 90°
Possible 1 - 4 locked positions within 360°
(please define).



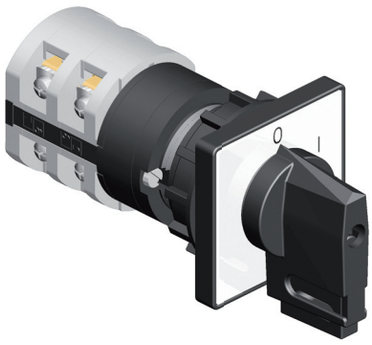
12

Mounting into ∅22 mm.
Locking and pull-out of the key at 90°
Possible 1 - 4 locked positions within 360°
(please define).



29
30

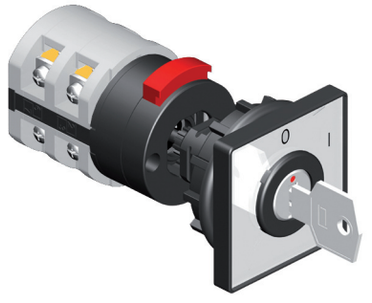
Quick mounting into ∅22 mm (optional extra 29)
or into ∅30 mm (optional extra 30).
Locking and pull-out of the key at 90°
Possible 1 - 4 locked positions within 360°
(please define).



41
42

Quick mounting into ∅22 mm (optional extra 41)
or into ∅30 mm (optional extra 42).
Padlocking (1 - 3) in "0".

HANDLE	FRONT PLATE	ESCUTCH. PLATE	Y CODE
black	black	white	
grey	grey	white	20
red-yellow	yellow	yellow	40



29D

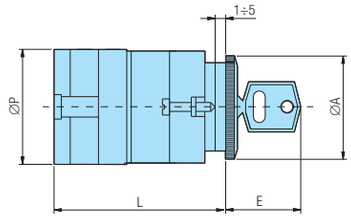
Mounting into ∅22 mm.
Snap-on mounting of contact block with front part.

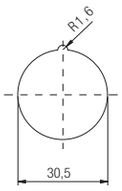
CODE

N12	U	10		
N20	U	10		
N25	U	10		
N12	U	12		
N20	U	12		
N25	U	12		
			or	
N12	U	29	30	
N20	U	29	30	
N25	U	29	30	
			or	
N12	U	41	42	
N25	U	41	42	
N20	U	41	42	
N12	U	29D		
N20	U	29D		
N25	U	29D		

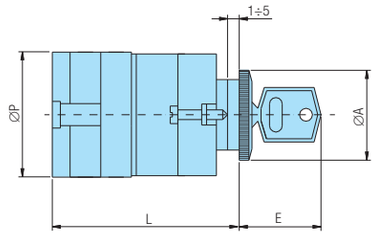
DIMENSIONAL DRAWINGS (mm)

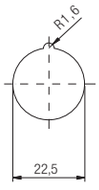
Drilling plan
Front panel



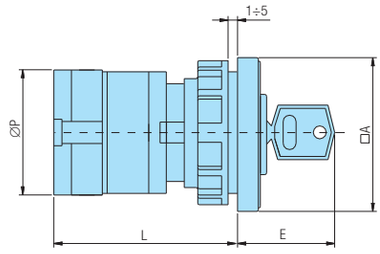


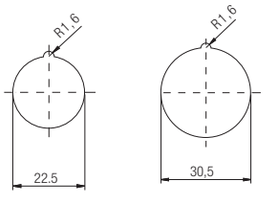
Type	Marking			L			
	ØA	E	ØP	1	2	3.....8	
N 12	35	30	58	47	56,7	66,4	104
N 20	35	30	58	47	56,7	66,4	104
N 25	35	30	58	51,4	65	78,6	135,7



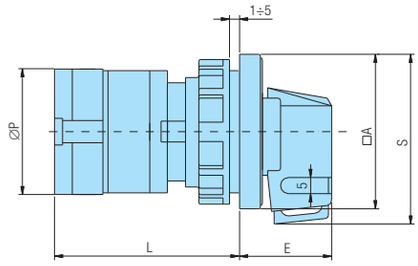


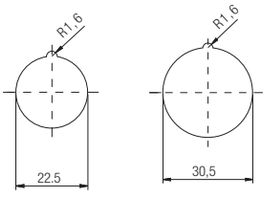
Type	Marking			L			
	ØA	E	ØP	1	2	3.....8	
N 12	28	30	58	47	56,7	66,4	104
N 20	28	30	58	47	56,7	66,4	104
N 25	28	30	58	51,4	65	78,6	135,7



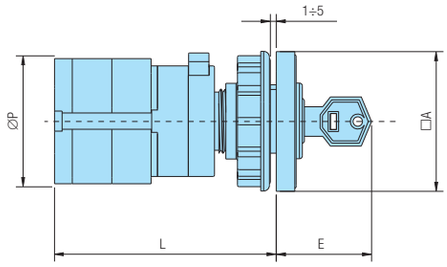


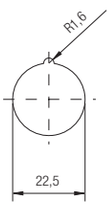
Type	Marking			L			
	□A	E	ØP	1	2	3.....8	
N 12	48	33	45	53	62,7	72,4	104
N 20	48	33	45	53	62,7	72,4	104
N 25	48	33	45	57,4	71	84,6	135,7





Type	Marking				L			
	□A	E	ØP	S	1	2	3.....12	
N 12	48	34,5	45	57	53	62,7	72,4	159,7
N 20	48	34,5	45	57	53	62,7	72,4	159,7
N 25	48	34,5	45	57	57,4	71	84,6	207



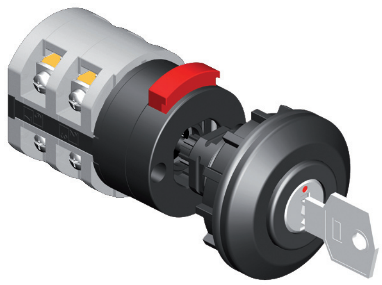


Type	Marking			L			
	□A	E	ØP	1	2	3.....8	
N 12	48	33	45,4	58	67,7	77,4	104
N 20	48	33	45,4	58	67,7	77,4	104
N 25	48	33	45,4	62,4	76	89,6	135,7

OPTIONAL EXTRAS

CODE

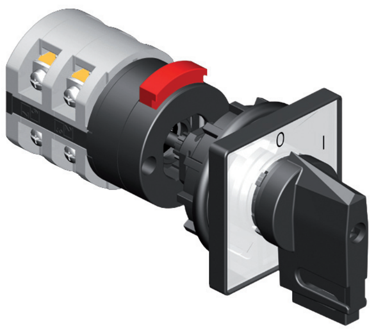
CENTRAL MOUNTING-SWITCHES WITH LOCKING



29K

Mounting into ∅22 mm.
Snap-on mounting of contact block with front part.

N12	....	U	29K
N20	....	U	29K
N25	....	U	29K

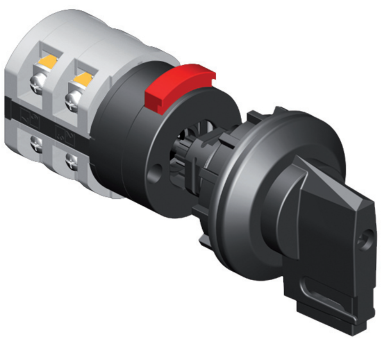


41D

Mounting into ∅22 mm.
Snap-on mounting of contact block with front part.

HANDLE	FRONT PLATE	ESCUTCH. PLATE	Y CODE
black	black	white	
grey	grey	white	20
red-yellow	yellow	yellow	40

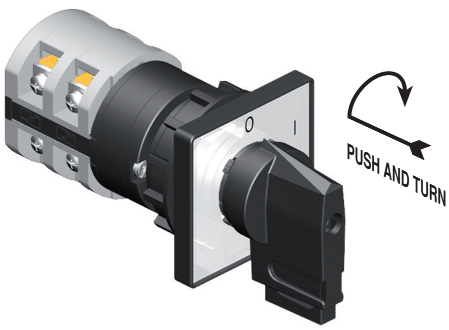
N12	....	U	41D
N20	....	U	41D
N25	....	U	41D



41K

Mounting into ∅22 mm.
Snap-on mounting of contact block with front part.

N12	....	U	41K
N20	....	U	41K
N25	....	U	41K

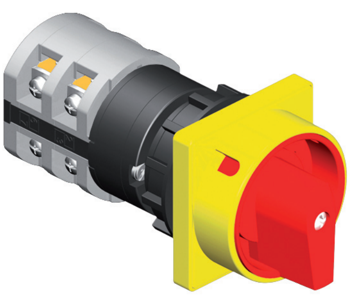


71
72

Quick mounting into ∅22 mm (optional extra 71) or
into ∅30 mm (optional extra 72). Padlocking (1 - 3) in "0".

HANDLE	FRONT PLATE	ESCUTCH. PLATE	Y CODE
black	black	white	
grey	grey	white	20
red-yellow	yellow	yellow	40

				ili / *or*
N12	....	U	71	72
N20	....	U	71	72
N25	....	U	71	72



76
77

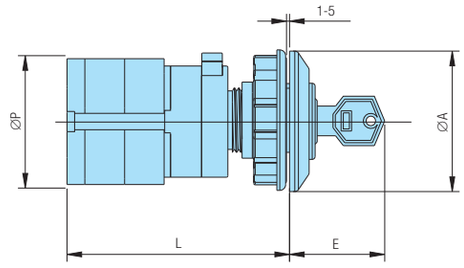
Quick mounting into ∅22 mm (optional extra 76) or
into ∅30 mm (optional extra 77). Padlocking (1 - 3) in "0".

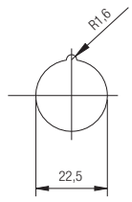
HANDLE	FRONT PLATE	ESCUTCH. PLATE	Y CODE
black	black	white	
grey	grey	white	20
red	yellow	yellow	40

				ili / *or*
N12	....	U	76	77
N20	....	U	76	77
N25	....	U	76	77

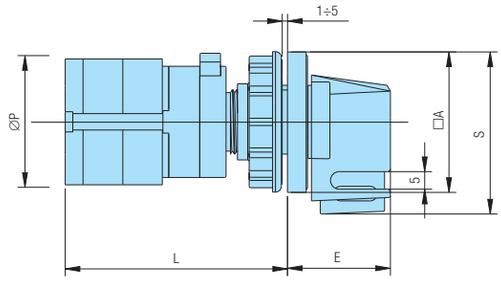
DIMENSIONAL DRAWINGS (mm)

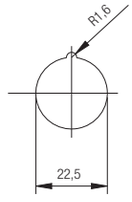
Drilling plan
Front panel



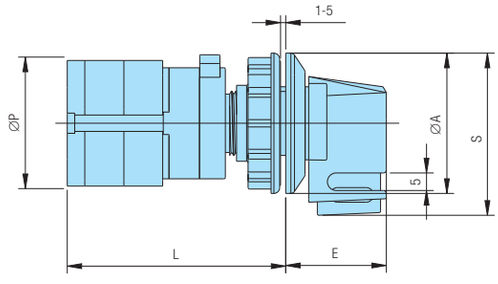


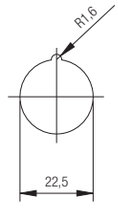
Type	Marking			L			
	ØA	E	ØP	1	2	3.....8	
N 12	48	32,5	45,4	58	67,7	77,4	104
N 20	48	32,5	45,4	58	67,7	77,4	104
N 25	48	32,5	45,4	62,4	76	89,6	135,7



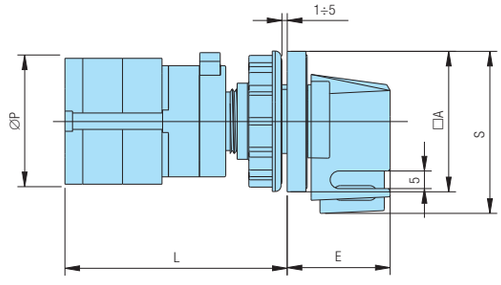


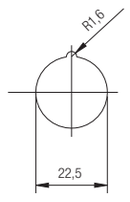
Type	Marking				L			
	□A	E	ØP	S	1	2	3.....12	
N 12	48	35,2	45,4	57	58	67,7	77,4	164,7
N 20	48	35,2	45,4	57	58	67,7	77,4	164,7
N 25	48	35,2	45,4	57	62,4	76	89,6	212

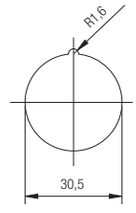




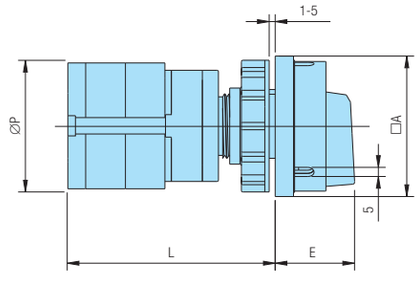
Type	Marking				L			
	ØA	E	ØP	S	1	2	3.....12	
N 12	48	35	45,4	57	58	67,7	77,4	164,7
N 20	48	35	45,4	57	58	67,7	77,4	164,7
N 25	48	35	45,4	57	62,4	76	89,6	212

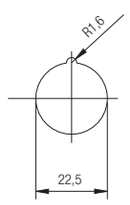


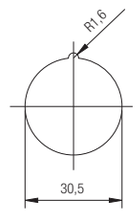




Type	Marking				L			
	□A	E	ØP	S	1	2	3.....12	
N 12	48	37,5	45	57	53	62,7	72,4	159,7
N 20	48	37,5	45	57	53	62,7	72,4	159,7
N 25	48	37,5	45	57	57,4	71	84,6	207







Type	Marking			L			
	□A	E	ØP	1	2	3.....12	
N 12	48	34,2	45	53	62,7	72,4	159,7
N 20	48	34,2	45	53	62,7	72,4	159,7
N 25	48	34,2	45	57,4	71	84,6	207

OPTIONAL EXTRAS

BLOCKADE OF POSITIONS-TWO HANDS OPERATING

16

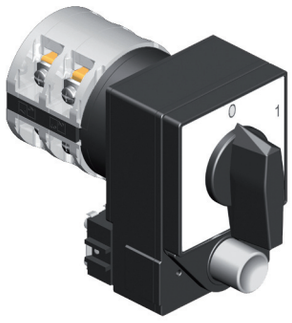
Blockade of positions - two hands operating, against an accidental switching-on. Blockade is possible in any position (please define).

		CODE
N12H	.....	U 16
N20H	.....	U 16
N25H	.....	U 16
N32	.....	U 16
N32B	.....	U 16
N40	.....	U 16
N40B	.....	U 16
N63	.....	U 16
N63B	.....	U 16
N80	.....	U 16
N125	.....	U 16

26

Blockade of positions - two hands operating, against an accidental switching-on, locking by one padlock.
Blockade and locking is possible in any position (please define).

		CODE
N12H	.....	U 26
N20H	.....	U 26
N25H	.....	U 26
N32	.....	U 26
N32B	.....	U 26
N40	.....	U 26
N40B	.....	U 26
N63	.....	U 26
N63B	.....	U 26
N80	.....	U 26
N125	.....	U 26



17

Blockade of positions + auxiliary contacts (push button).
Possible optional extra with one or two pairs of the open-close contacts.
Operating of the contacts is being realized before switch function.
***Standard:** blockade in position "0", auxiliary contacts 1NO +1NC. It is necessary to define blockade of the positions and number of the auxiliary contacts.*

		CODE
N12H	.....	U 17
N20H	.....	U 17
N25H	.....	U 17
N32	.....	U 17
N32B	.....	U 17
N40	.....	U 17
N40B	.....	U 17
N63	.....	U 17
N63B	.....	U 17
N80	.....	U 17
N125	.....	U 17

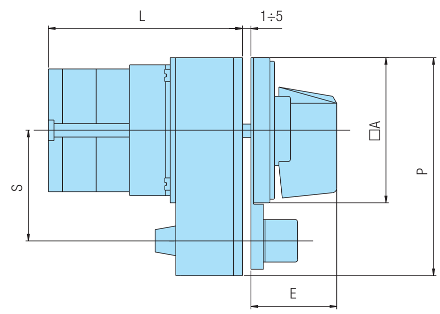
27

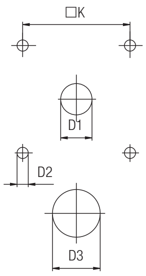
Blockade of positions + auxiliary contacts (push button) + locking by one padlock.
Possible optional extra with one or two pairs of the open-close contacts.
Operating of the contacts is being realized before switch function.
***Standard:** blockade in position "0", auxiliary contacts 1NO +1NC. It is necessary to define blockade of the positions and number of the auxiliary contacts.*

		CODE
N12H	.....	U 27
N20H	.....	U 27
N25H	.....	U 27
N32	.....	U 27
N32B	.....	U 27
N40	.....	U 27
N40B	.....	U 27
N63	.....	U 27
N63B	.....	U 27
N80	.....	U 27
N125	.....	U 27

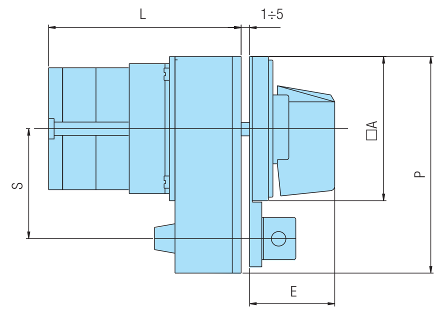
DIMENSIONAL DRAWINGS (mm)

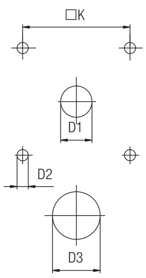
Drilling plan
Front panel



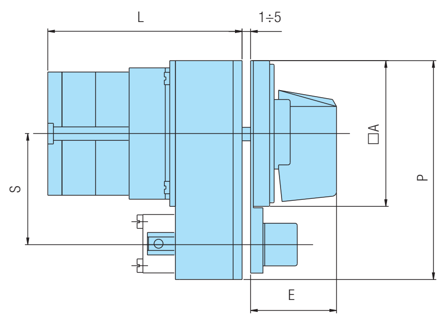


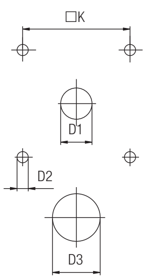
Type	Marking								L			
	□A	D1	D2	D3	E	□K	P	S	1	2	3...	...12
N 12H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 20H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 25H	65	12	5	20	34,5	48	65x98	48	68	81,6	95,2	217,6
N 32	65	14	5	20	34,5	48	65x98	48	70,9	84,5	98,1	220,5
N 32B	90	16	6	15	41,5	68	90x122	60	79,8	93,4	107	229,4
N 40	65	14	5	20	34,5	48	65x98	48	73,5	88,6	103,7	239,6
N 40B	90	16	6	15	41,5	68	90x122	60	82,4	97,5	112,6	248,5
N 63	65	14	5	20	34,5	48	65x98	48	77,3	95,4	113,5	276,4
N 63B	90	16	6	15	41,5	68	90x122	60	86,2	104,3	122,4	256,8
N 80/N 125	90	16	6	15	41,5	68	90x122	60	95,8	124,9	154	423,4



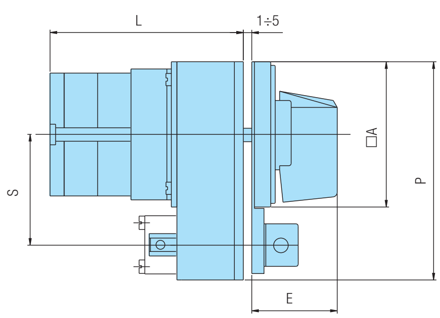


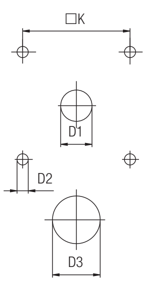
Type	Marking								L			
	□A	D1	D2	D3	E	□K	P	S	1	2	3...	...12
N 12H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 20H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 25H	65	12	5	20	34,5	48	65x98	48	68	81,6	95,2	217,6
N 32	65	14	5	20	34,5	48	65x98	48	70,9	84,5	98,1	220,5
N 32B	90	16	6	15	41,5	68	90x122	60	79,8	93,4	107	229,4
N 40	65	14	5	20	34,5	48	65x98	48	73,5	88,6	103,7	239,6
N 40B	90	16	6	15	41,5	68	90x122	60	82,4	97,5	112,6	248,5
N 63	65	14	5	20	34,5	48	65x98	48	77,3	95,4	113,5	276,4
N 63B	90	16	6	15	41,5	68	90x122	60	86,2	104,3	122,4	256,8
N 80/N 125	90	16	6	15	41,5	68	90x122	60	95,8	124,9	154	423,4





Type	Marking								L			
	□A	D1	D2	D3	E	□K	P	S	1	2	3...	...12
N 12H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 20H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 25H	65	12	5	20	34,5	48	65x98	48	68	81,6	95,2	217,6
N 32	65	14	5	20	34,5	48	65x98	48	70,9	84,5	98,1	220,5
N 32B	90	16	6	15	41,5	68	90x122	60	79,8	93,4	107	229,4
N 40	65	14	5	20	34,5	48	65x98	48	73,5	88,6	103,7	239,6
N 40B	90	16	6	15	41,5	68	90x122	60	82,4	97,5	112,6	248,5
N 63	65	14	5	20	34,5	48	65x98	48	77,3	95,4	113,5	276,4
N 63B	90	16	6	15	41,5	68	90x122	60	86,2	104,3	122,4	256,8
N 80/N 125	90	16	6	15	41,5	68	90x122	60	95,8	124,9	154	423,4



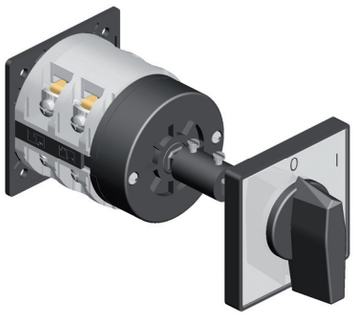


Type	Marking								L			
	□A	D1	D2	D3	E	□K	P	S	1	2	3...	...12
N 12H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 20H	65	12	5	20	34,5	48	65x98	48	63,6	73,3	83	170,3
N 25H	65	12	5	20	34,5	48	65x98	48	68	81,6	95,2	217,6
N 32	65	14	5	20	34,5	48	65x98	48	70,9	84,5	98,1	220,5
N 32B	90	16	6	15	41,5	68	90x122	60	79,8	93,4	107	229,4
N 40	65	14	5	20	34,5	48	65x98	48	73,5	88,6	103,7	239,6
N 40B	90	16	6	15	41,5	68	90x122	60	82,4	97,5	112,6	248,5
N 63	65	14	5	20	34,5	48	65x98	48	77,3	95,4	113,5	276,4
N 63B	90	16	6	15	41,5	68	90x122	60	86,2	104,3	122,4	256,8
N 80/N 125	90	16	6	15	41,5	68	90x122	60	95,8	124,9	154	423,4

OPTIONAL EXTRAS

CODE

EXTENSION SHAFT

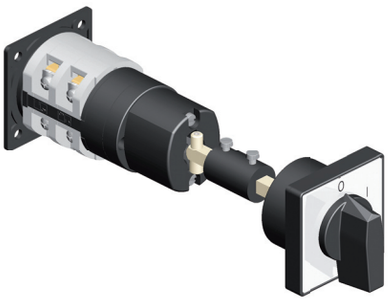


02

Standard version includes the P=100 mm.
It is necessary to define board depth (L+P).

N12	.....	O	02
N12H	.....	O	02
N20	.....	O	02
N20H	.....	O	02
N25	.....	O	02
N25H	.....	O	02
N32	.....	O	02
N32H	.....	O	02
N40	.....	O	02
N40H	.....	O	02
N63	.....	O	02
N63H	.....	O	02
N80	.....	O	02
N125	.....	O	02

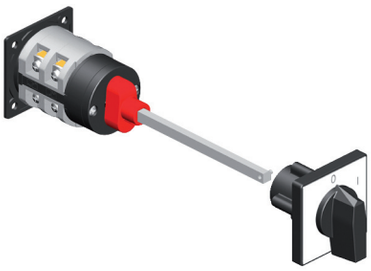
EXTENSION SHAFT AND DOOR COUPLING



258

Door-opening in position "0". Different length for mounting.

N12	.....	O	258
N12H	.....	O	258
N20	.....	O	258
N20H	.....	O	258
N25	.....	O	258
N25H	.....	O	258
N32	.....	O	258
N40	.....	O	258
N63	.....	O	258

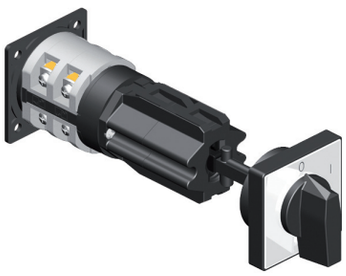


102

Door-opening in position "0". Standard version with 100 mm shaft.

CODE	VERSION
102	*Standard version - shaft 100 mm*
102 - 200	*Shaft 200 mm*

N12	.....	O	102
N12H	.....	O	102
N20	.....	O	102
N20H	.....	O	102
N25	.....	O	102
N25H	.....	O	102
N32	.....	O	102
N32H	.....	O	102
N40	.....	O	102
N40H	.....	O	102
N63	.....	O	102
N63H	.....	O	102
N80	.....	O	102
N125	.....	O	102



108D

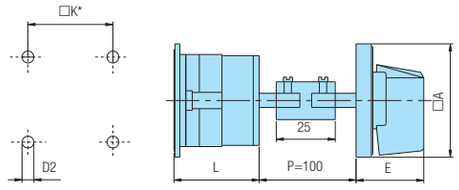
Used to adapt switches with base mounting to different mounting depths. Door opening in position "0".
Standard version with one module.

CODE	VERSION
108D	*Standard version with one module*
108D - 2	*Version with two modules*
108D - 3	*Version with three modules*
108D - 4	*Version with four modules*

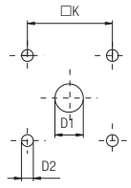
N12	.....	O	108D
N12H	.....	O	108D
N20	.....	O	108D
N20H	.....	O	108D
N25	.....	O	108D
N25H	.....	O	108D
N32	.....	O	108D
N40	.....	O	108D
N63	.....	O	108D

DIMENSIONAL DRAWINGS (mm)

Drilling plan
Rear panel

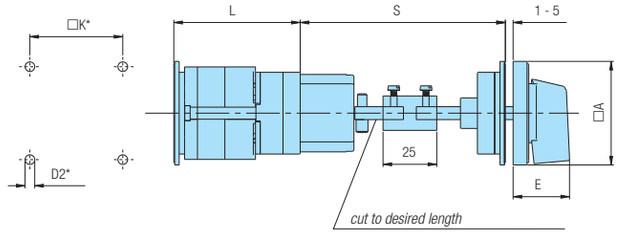


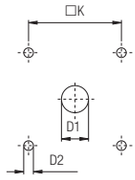
Drilling plan
Front panel



Type	Marking					L			
	□A	D1	D2	E	□K	1	2	3.....12	
N 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48	38,6	48,3	58	145,3
N 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48	38,6	48,3	58	145,3
N 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48	43	56,6	70,2	192,6
N 32	65	14	5	34,5	48	45,9	59,5	73,1	195,5
N 32H	90	14	6	41,5	68	46,6	60,2	73,8	196,2
N 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6
N 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3
N 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4
N 63H	90	14	6	41,5	68	55	73,1	91,2	254,1
N 80/N 125	90	16	6	41,5	68	74,8	103,9	133	394,9

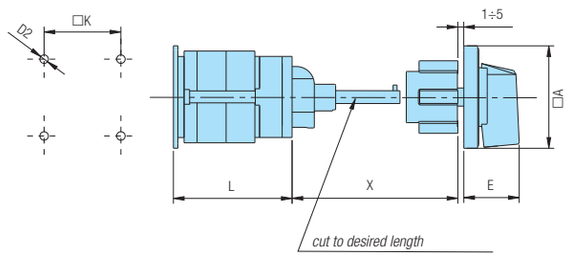
* *for* N63 D2*=6 □K*=68

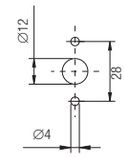




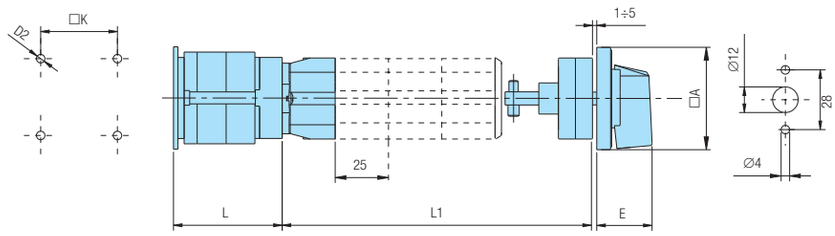
Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
N 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
N 32	65	14	5	34,5	48	45-55	48,9	62,5	76,1	198,5
N 40	65	14	5	34,5	48	45-55	51,5	66,6	81,7	217,6
N 63*	65	14	5	34,5	48	45-55	57,3	75,4	93,5	256,4

* *for* N63 D2*=6 □K*=68





Type	Marking						L			
	□A	D2	E	□K	X 102	X 102-200	1	2	3.....12	
N 12	48	5	26,5	36	113-122	213-222	38,1	47,8	57,5	144,8
N 12H	65	5	34,5	48	113-122	213-222	38,6	48,3	58	145,3
N 20	48	5	26,5	36	113-122	213-222	38,1	47,8	57,5	144,8
N 20H	65	5	34,5	48	113-122	213-222	38,6	48,3	58	145,3
N 25	48	5	26,5	36	113-122	213-222	42,5	56,1	69,7	192,1
N 25H	65	5	34,5	48	113-122	213-222	43	56,6	70,2	192,6
N 32	65	5	34,5	48	113-122	213-222	45,9	59,5	73,1	195,5
N 32H	90	6	41,5	68	133-139	233-239	46,6	60,2	73,8	196,2
N 40	65	5	34,5	48	113-122	213-222	48,5	63,6	78,7	214,6
N 40H	90	6	41,5	68	133-139	233-239	49,2	64,3	79,4	215,3
N 63	65	5	34,5	48	113-122	213-222	54,3	72,4	90,5	253,4
N 63H	90	6	41,5	68	133-139	233-239	55	73,1	91,2	254,1
N 80/N 125	90	6	41,5	68	135-141	235-241	74,8	103,9	133	394,9

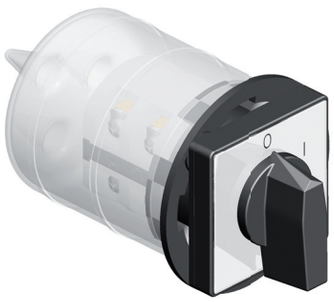


Type	Marking				L			
	□A	D2	E	□K	1	2	3.....12	
N 12	48	5	26,5	36	33,1	42,8	52,5	139,8
N 12H	65	5	34,5	48	33,6	43,3	53	140,3
N 20	48	5	26,5	36	33,1	42,8	52,5	139,8
N 20H	65	5	34,5	48	33,6	43,3	53	140,3
N 25	48	5	26,5	36	37,5	51,1	64,7	187,1
N 25H	65	5	34,5	48	38	51,6	65,2	187,6
N 32	65	5	34,5	48	40,9	54,5	68,1	190,5
N 40	65	5	34,5	48	43,5	58,6	73,7	209,6
N 63	65	5	34,5	48	47,3	65,4	83,5	246,4

Number of modules	L1	
	min	max
1	55	65
2	80	90
3	105	115
4	130	140

OPTIONAL EXTRAS

PROTECTION TUBE



43

Rear protection IP42. Possibility to directly fitted on the standard switch.

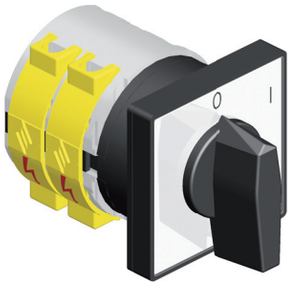
CODE			
N12	.....	U	43
N20	.....	U	43
N25	.....	U	43
N32	.....	U	43
N40	.....	U	43
N63	.....	U	43

PROTECTION COVER

19

Protection against an accidental contact with the supplying terminals under voltage for the switches with only two elements.

N12	.....	U	19
N12H	.....	U	19
N20	.....	U	19
N20H	.....	U	19
N25	.....	U	19
N25H	.....	U	19
N32	.....	U	19
N32H	.....	U	19
N12	.....	O	19
N12H	.....	O	19
N20	.....	O	19
N20H	.....	O	19
N25	.....	O	19
N25H	.....	O	19
N32	.....	O	19
N32H	.....	O	19



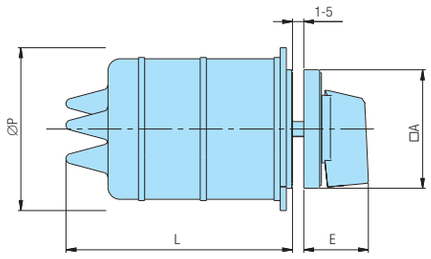
69

Protection against an accidental contact with the supplying terminals under voltage.
Standard manner supplying terminals are protected (switches 0-1; 1-12 poles).

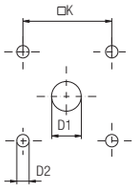
N12	.....	U	69
N12H	.....	U	69
N20	.....	U	69
N20H	.....	U	69
N25	.....	U	69
N25H	.....	U	69
N40	.....	U	69
N40H	.....	U	69
N63	.....	U	69
N63H	.....	U	69
N80	.....	U	69
N125	.....	U	69
N12	.....	O	69
N12H	.....	O	69
N20	.....	O	69
N20H	.....	O	69
N25	.....	O	69
N25H	.....	O	69
N40	.....	O	69
N40H	.....	O	69
N63	.....	O	69
N63H	.....	O	69
N80	.....	O	69
N125	.....	O	69

DIMENSIONAL DRAWINGS (mm)

Drilling plan
Rear panel

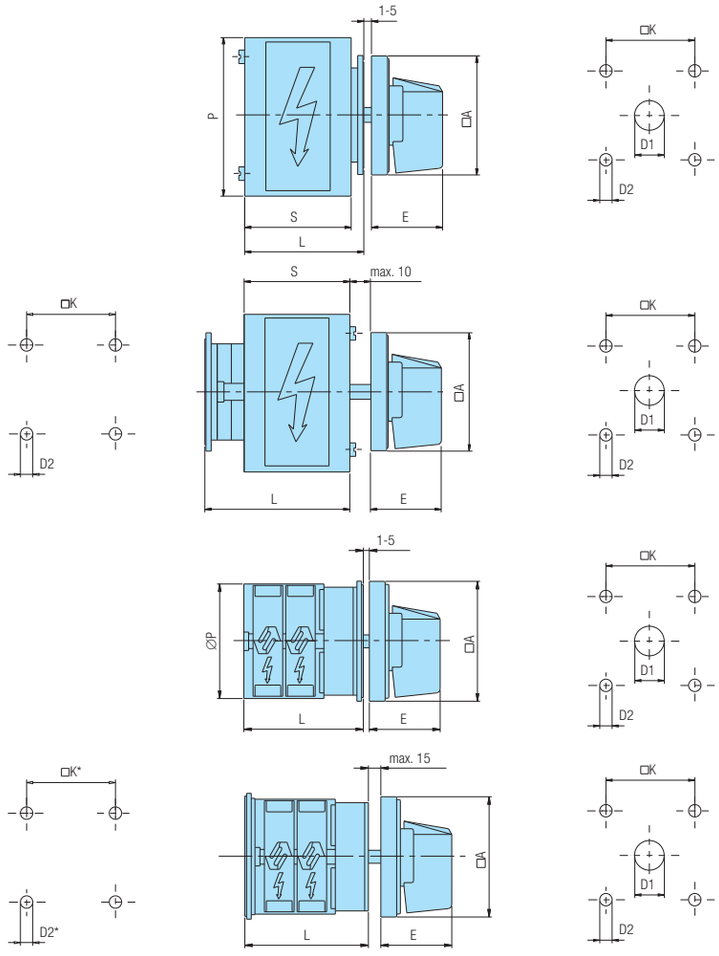


Drilling plan
Front panel



Type	Marking					
	□A	D1	D2	E	□K	ØP
N 12	48	12	5	26,5	36	66
N 20	48	12	5	26,5	36	66
N 25	48	12	5	26,5	36	66
N 32	65	14	5	34,5	48	89
N 40	65	14	5	34,5	48	89
N 63	65	14	5	34,5	48	89

Type	No. of elements	L
N12, N20, N25	1-2	90
	3-4	115
	5-6	140
N32, N40	1-4	112,5



Type	Marking					
	□A	D1	D2	E	□K	S	P	L
N 12	48	12	5	26,5	36	43	64	49,3
N 12H	65	12	5	34,5	48	43	64	49,8
N 20	48	12	5	26,5	36	43	64	49,3
N 20H	65	12	5	34,5	48	43	64	49,8
N 25	48	12	5	26,5	36	51	68	57,6
N 25H	65	12	5	34,5	48	51	68	58,1
N 32	65	14	5	34,5	48	51	77	59,5
N 32H	90	14	6	41,5	68	51	77	60,2

Type	Marking						
	□A	D1	D2	E	□K	S	L
N 12	48	12	5	26,5	36	43	49,3
N 12H	65	12	5	34,5	48	43	49,8
N 20	48	12	5	26,5	36	43	49,3
N 20H	65	12	5	34,5	48	43	49,8
N 25	48	12	5	26,5	36	51	57,6
N 25H	65	12	5	34,5	48	51	58,1
N 32	65	14	5	34,5	48	51	59,5
N 32H	90	14	6	41,5	68	51	60,2

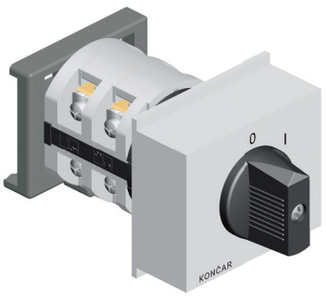
Type	Marking						L			
	□A	D1	D2	E	□K	ØP	1	2	3	...12
N 12	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8
N 12H	65	12	5	34,5	48	39	33,6	43,3	53	140,3
N 20	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8
N 20H	65	12	5	34,5	48	39	33,6	43,3	53	140,3
N 25	48	12	5	26,5	36	43	37,5	51,1	64,7	187,1
N 25H	65	12	5	34,5	48	58	38	51,6	65,2	187,6
N 40	65	14	5	34,5	48	58,5	43,5	58,6	73,7	209,6
N 40H	90	14	6	41,5	68	84	44,2	59,3	74,4	210,3
N 63	65	14	5	34,5	48	62	47,3	65,4	83,5	246,4
N 63H	90	14	6	41,5	68	84	48	66,1	84,2	247,1
N 80/N 125	90	16	6	41,5	68	86,5	67,3	96,4	125,5	387,4

Type	Marking					L			
	□A	D1	D2	E	□K	1	2	3	...12
N 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48	38,6	48,3	58	67,7
N 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48	38,6	48,3	58	67,7
N 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48	43	56,6	70,2	192,6
N 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6
N 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3
N 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4
N 63H	90	14	6	41,5	68	55	73,1	91,2	254,1
N 80/N 125	90	16	6	41,5	68	74,8	103,9	133	394,9

* *for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

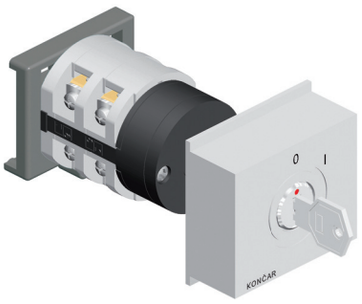
SERVICE COVER



48
48D

Snap on base mounting for the rail 35 EN 50022.
Both the service cover (45 mm) and handle are adjustable in height (optional extra 48).
Fixed measure L (optional extra 48D).

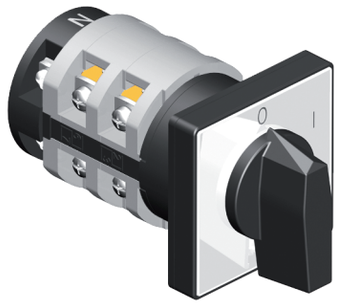
HANDLE	Y
	CODE
black	
red	40



49

Snap on base mounting for the rail 35 EN 50022.
Both the service cover (45 mm) and key are adjustable in height.

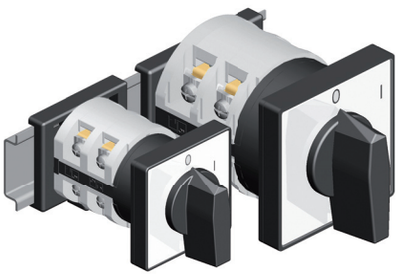
GROUND AND NEUTRAL TERMINAL



33

Ground (PE) and neutral (N) connecting unit.

NON-STANDARD MOUNTING



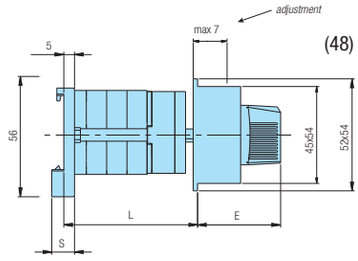
18

Mounting on the rail 35 EN 50022

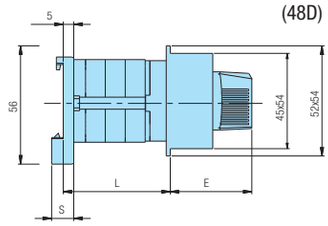
CODE

N12	O	48
N20	O	48
N25	O	48
N12	O	48D
N20	O	48D
N25	O	48D
N12	O	49
N20	O	49
N25	O	49
N12	U	33
N12H	U	33
N20	U	33
N20H	U	33
N25	U	33
N25H	U	33
N32	U	33
N32H	U	33
N40	U	33
N40H	U	33
N63	U	33
N63H	U	33
N12	O	33
N12H	O	33
N20	O	33
N20H	O	33
N25	O	33
N25H	O	33
N32	O	33
N32H	O	33
N40	O	33
N40H	O	33
N63	O	33
N63H	O	33
N12	U	18
N12H	U	18
N20	U	18
N20H	U	18
N25	U	18
N25H	U	18
N32	U	18
N40	U	18
N63	U	18
N12	O	18
N12H	O	18
N20	O	18
N20H	O	18
N25	O	18
N25H	O	18
N32	O	18
N40	O	18
N63	O	18

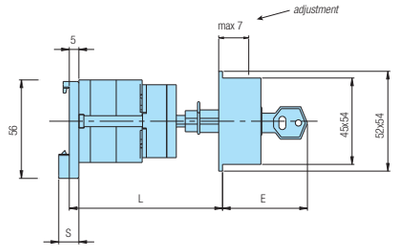
DIMENSIONAL DRAWINGS (mm)



Type	Marking		L		
	E	S	1	2	3
N 12	39	10	41-48	51-58	60-67
N 20	39	10	41-48	51-58	60-67
N 25	39	10	45-52	59-66	72-79

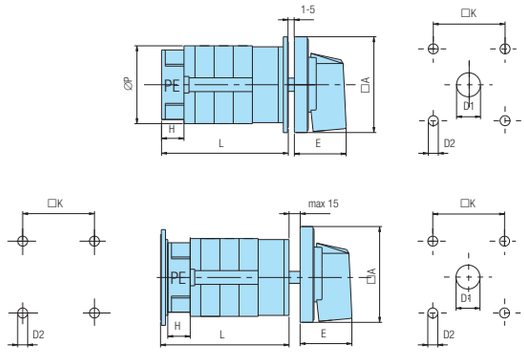


Type	Marking		L		
	E	S	1	2	3
N 12	39	10	38,1	47,8	57,5
N 20	39	10	38,1	47,8	57,5
N 25	39	10	42,5	56,1	69,7



Type	Marking		L		
	E	S	1	2	3
N 12	47	10	59-66	69-76	78-85
N 20	47	10	59-66	69-76	78-85
N 25	47	10	63-70	77-84	90-97

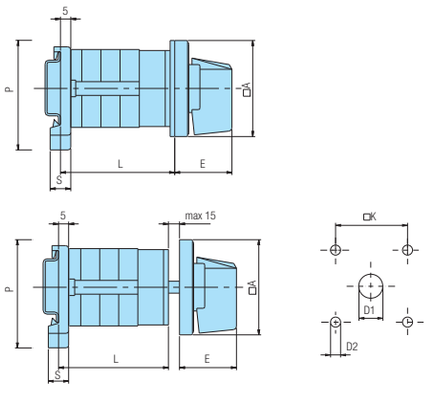
Drilling plan
Rear panel



Drilling plan
Front panel

Type	Marking							L			
	□A	D1	D2	E	□K	H	ØP	1	2	3	...12
N 12	48	12	5	26,5	36	10,6	39	43,7	53,4	63,1	150,4
N 12H	65	12	5	34,5	48	10,6	58	44,2	53,9	63,6	150,9
N 20	48	12	5	26,5	36	10,6	39	43,7	53,4	63,1	150,4
N 20H	65	12	5	34,5	48	10,6	58	44,2	53,9	63,6	150,9
N 25	48	12	5	26,5	36	10,6	43	48,1	61,7	75,3	197,7
N 25H	65	12	5	34,5	48	10,6	58	48,6	62,2	75,8	198,2
N 32	65	14	5	34,5	48	15,5	58,5	56,4	70	83,6	206
N 32H	90	14	6	41,5	68	15,5	84	57,1	70,7	84,3	206,7
N 40	65	14	5	34,5	48	15,5	58,5	59	74,1	89,2	225,1
N 40H	90	14	6	41,5	68	15,5	84	59,7	74,8	89,9	225,8
N 63	65	14	5	34,5	48	15,5	62	62,8	80,9	99	261,9
N 63H	90	14	6	41,5	68	15,5	84	63,5	81,6	99,7	262,6

Type	Marking						L			
	□A	D1	D2	E	H	□K	1	2	3	...12
N 12	48	12	5	26,5	10,6	36	48,7	58,4	68,1	155,4
N 12H	65	12	5	34,5	10,6	48	49,2	58,9	68,6	155,9
N 20	48	12	5	26,5	10,6	36	48,7	58,4	68,1	155,4
N 20H	65	12	5	34,5	10,6	48	49,2	58,9	68,6	155,9
N 25	48	12	5	26,5	10,6	36	53,1	66,7	80,3	202,7
N 25H	65	12	5	34,5	10,6	48	53,6	67,2	80,8	203,2
N 32	65	14	5	34,5	15,5	48	61,4	75	88,6	211
N 32H	90	14	6	41,5	15,5	68	62,1	75,7	89,3	211,7
N 40	65	14	5	34,5	15,5	48	64	79,1	94,2	230,1
N 40H	90	14	6	41,5	15,5	68	64,7	79,8	94,9	230,8
N 63	65	14	5	34,5	15,5	48	69,8	87,9	106	268,9
N 63H	90	14	6	41,5	15,5	68	70,5	88,6	106,7	269,6

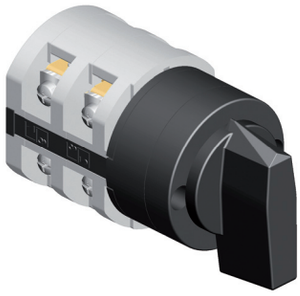


Type	Marking				L			
	□A	E	S	P	1	2	3	...12
N 12	48	26,5	10	49	38,1	47,8	57,5	144,8
N 12H	65	34,5	10	58,5	38,6	48,3	58	145,3
N 20	48	26,5	10	49	38,1	47,8	57,5	144,8
N 20H	65	34,5	10	58,5	38,6	48,3	58	145,3
N 25	48	26,5	10	51	42,5	56,1	69,7	192,1
N 25H	65	34,5	10	58,5	43	56,6	70,2	192,6
N 32	65	34,5	10	69,5	45,9	59,5	73,1	195,5
N 40	65	34,5	10	69,5	48,5	63,6	78,7	214,6
N 63	65	34,5	10	71	52,3	70,4	88,5	251,4

Type	Marking							L			
	□A	D1	D2	E	□K	S	P	1	2	3	...12
N 12	48	12	5	26,5	36	10	49	38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48	10	58,5	38,6	48,3	58	145,3
N 20	48	12	5	26,5	36	10	49	38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48	10	58,5	38,6	48,3	58	145,3
N 25	48	12	5	26,5	36	10	51	42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48	10	58,5	43	56,6	70,2	192,6
N 32	65	14	5	34,5	48	10	69,5	45,9	59,5	73,1	195,5
N 40	65	14	5	34,5	48	10	69,5	48,5	63,6	78,7	214,6
N 63	65	14	5	34,5	48	10	71	52,3	70,4	88,5	251,4

OPTIONAL EXTRAS

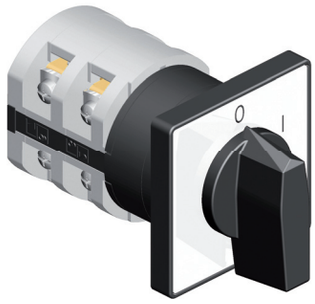
NON-STANDARD MOUNTING



38D
38T

Mounting by two screws M4, at a distance 28 mm (optional extra 38D) or at a distance 30 mm (optional extra 38T), without front plate.

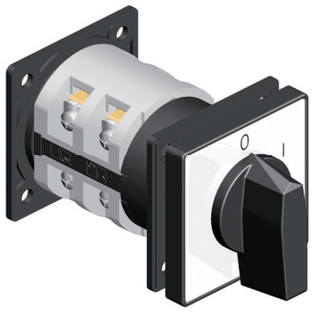
CODE				
				or
N12	.....	U	38D	38T
N20	.....	U	38D	38T
N25	.....	U	38D	38T
N32	.....	U	38D	38T
N40	.....	U	38D	38T
N63	.....	U	38D	38T



39D
39T

Mounting by two screws M4, at a distance 28 mm (optional extra 39D) or at a distance 30 mm (optional extra 39T), with front plate.

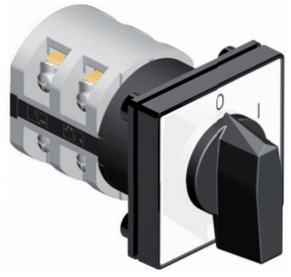
CODE				
				or
N12	.....	U	39D	39T
N12H	.....	U	39D	39T
N20	.....	U	39D	39T
N20H	.....	U	39D	39T
N25	.....	U	39D	39T
N25H	.....	U	39D	39T
N32	.....	U	39D	39T
N40	.....	U	39D	39T
N63	.....	U	39D	39T



40

Front - rear mounting

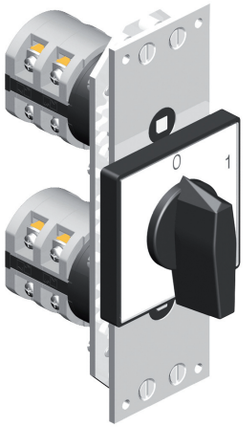
CODE			
N12	.....	U	40
N12H	.....	U	40
N20	.....	U	40
N20H	.....	U	40
N25	.....	U	40
N25H	.....	U	40
N32	.....	U	40
N32H	.....	U	40
N40	.....	U	40
N40H	.....	U	40
N63	.....	U	40
N63H	.....	U	40
N80	.....	U	40
N125	.....	U	40



31

Mounting by four inserted nuts M4.

CODE			
N12	.....	U	31
N12H	.....	U	31
N20	.....	U	31
N20H	.....	U	31
N25	.....	U	31
N25H	.....	U	31
N32	.....	U	31
N32H	.....	U	31
N40	.....	U	31
N40H	.....	U	31
N63	.....	U	31
N63H	.....	U	31
N80	.....	U	31
N125	.....	U	31



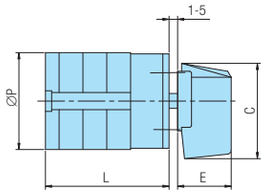
34

Two columns switches can be operated simultaneously.

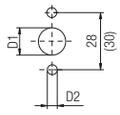
CODE			
N12	.....	U	34
N20	.....	U	34
N25	.....	U	34
N32	.....	U	34
N40	.....	U	34
N63	.....	U	34

DIMENSIONAL DRAWINGS (mm)

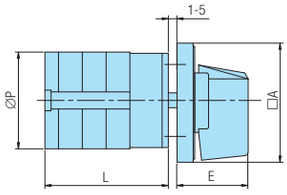
Drilling plan
Rear panel

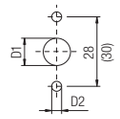


Drilling plan
Front panel

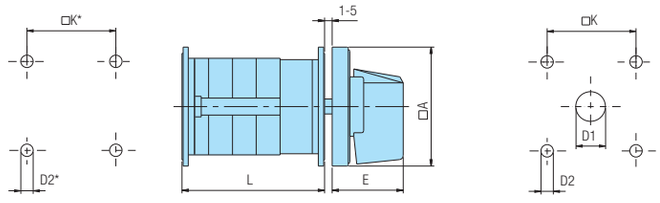


Type	Marking					L					
	C	D1	D2	E	ØP	1	2	3	6	7	8
N 12	39,5	12	5	19	39	36,1	45,8	55,5	84,6	94,3	104
N 20	39,5	12	5	19	39	36,1	45,8	55,5	84,6	94,3	104
N 25	39,5	12	5	19	43	40,5	54,1	67,7	108,5	122,1	135,7
N 32	53	14	5	25	58,5	43,9	57,5	71,1	111,9	-	-
N 40	53	14	5	25	58,5	46,5	61,6	76,7	122	-	-
N 63	53	14	5	25	62	50,3	68,4	86,5	140,8	-	-



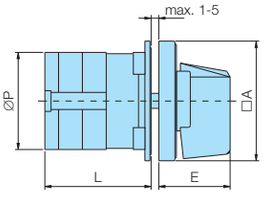


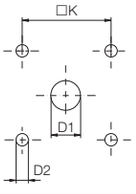
Type	Marking					L					
	□A	D1	D2	E	ØP	1	2	3	6	7	8
N 12	48	12	5	26,5	39	36,1	45,8	55,5	84,6	94,3	104
N12H	65	14	5	34,5	39	36,1	45,8	55,5	84,6	94,3	104
N 20	48	12	5	26,5	39	36,1	45,8	55,5	84,6	94,3	104
N20H	65	14	5	34,5	39	36,1	45,8	55,5	84,6	94,3	104
N 25	48	12	5	26,5	43	40,5	54,1	67,7	108,5	122,1	135,7
N25H	65	14	5	34,5	43	40,5	54,1	67,7	108,5	122,1	135,7
N 32	65	14	5	34,5	58,5	43,9	57,5	71,1	112,6	-	-
N 40	65	14	5	34,5	58,5	46,5	61,6	76,7	122	-	-
N 63	65	14	5	34,5	62	50,3	68,4	86,5	140,8	-	-



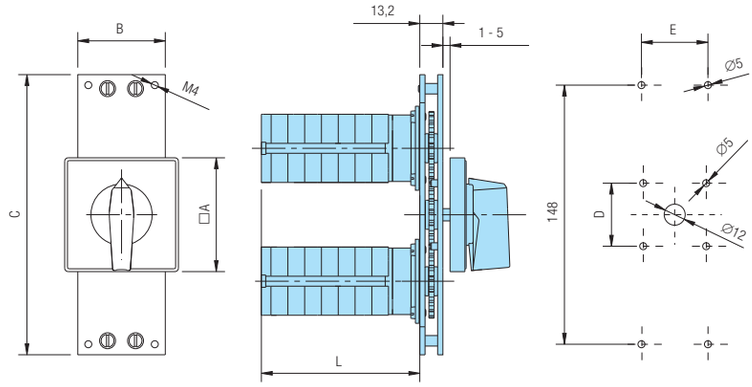
Type	Marking					L			
	□A	D1	D2	E	□K	1	2	3	...12
N 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48	39,1	48,8	58,5	145,8
N 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48	39,1	48,8	58,5	145,8
N 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48	43,5	57,1	70,7	193,1
N 32	65	14	5	34,5	48	46,4	60	73,6	196
N 32H	90	14	6	41,5	68	48,4	62	75,6	198
N 40	65	14	5	34,5	48	49	64,1	79,2	215,1
N 40H	90	14	6	41,5	68	51,7	66,8	81,9	217,8
N 63*	65	14	5	34,5	48	52,8	70,9	89	251,9
N 63H	90	14	6	41,5	68	60,3	78,4	96,5	259,4
N 80/N 125	90	16	6	41,5	68	74,8	103,9	133	394,9

* *for* N63 D2*=6 □K*=68





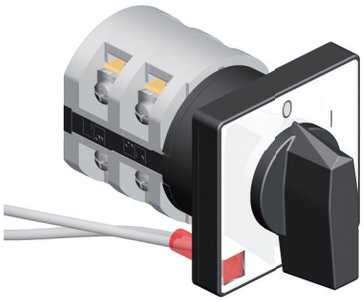
Type	Marking						L	
	□A	D1	D2	E	□K	ØP	1	2
N 12	48	12	5	26,5	36	39	33,1	42,8
N 12H	65	12	5	34,5	48	58	33,6	43,3
N 20	48	12	5	26,5	36	39	33,1	42,8
N 20H	65	12	5	34,5	48	58	33,6	43,3
N 25	48	12	5	26,5	36	43	37,5	51,1
N 25H	65	12	5	34,5	48	58	38	51,6
N 32	65	14	5	34,5	48	58,5	40,9	54,5
N 32H	90	14	6	41,5	68	84	41,6	55,2
N 40	65	14	5	34,5	48	58,5	43,5	58,6
N 40H	90	14	6	41,5	68	84	44,2	59,3
N 63	65	14	5	34,5	48	62	47,3	65,4
N 63H	90	14	6	41,5	68	84	48	66,1
N 80/N 125	90	16	6	41,5	68	88	67,3	96,4



Type	Marking					L			
	□A	B	C	D	E	1	2	3	...12
N 12	65	50	160	36	38	33,1	42,8	52,5	139,8
N 20	65	50	160	36	38	33,1	42,8	52,5	139,8
N 25	65	50	160	36	38	37,5	51,1	64,7	187,1
N 32	90	65	160	48	53	40,9	54,5	68,1	190,5
N 40	90	65	160	48	53	43,5	58,6	73,7	209,6
N 63	90	65	160	48	53	47,3	65,4	83,5	246,4

OPTIONAL EXTRAS

SIGNAL LAMPS



15

In a standard manner, the red lamp (230 V) is built in the right bottom corner. Possible voltages are 110; 400 V and green lamp, too (please define). On special request second lamp can be built in the left bottom corner.

CODE			
N12	U	15
N12H	U	15
N20	U	15
N20H	U	15
N25	U	15
N25H	U	15
N32	U	15
N32H	U	15
N40	U	15
N40H	U	15
N63	U	15
N63H	U	15
N80	U	15
N125	U	15
N12	O	15
N12H	O	15
N20	O	15
N20H	O	15
N25	O	15
N25H	O	15
N32	O	15
N32H	O	15
N40	O	15
N40H	O	15
N63	O	15
N63H	O	15
N80	O	15
N125	O	15

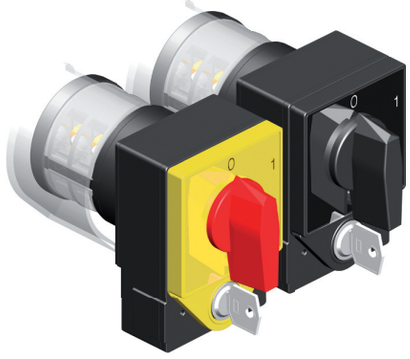
BLOCKADE OF THE ROTATION DIRECTION

28

The left direction is blocked.

N12	U	28
N12H	U	28
N20	U	28
N20H	U	28
N25	U	28
N25H	U	28
N32	U	28
N32H	U	28
N40	U	28
N40H	U	28
N63	U	28
N63H	U	28
N12	O	28
N12H	O	28
N20	O	28
N20H	O	28
N25	O	28
N25H	O	28
N32	O	28
N32H	O	28
N40	O	28
N40H	O	28
N63	O	28
N63H	O	28

MAIN SWITCH
MAIN SWITCH WITH EMERGENCY



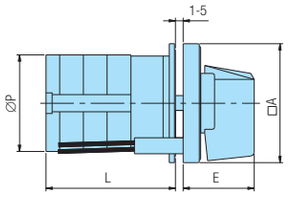
21
22

Locking by means of the key only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

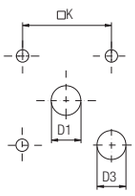
			or
N12H	U	21	22
N20H	U	21	22
N25H	U	21	22
N32	U	21	22
N32B	U	21	22

DIMENSIONAL DRAWINGS (mm)

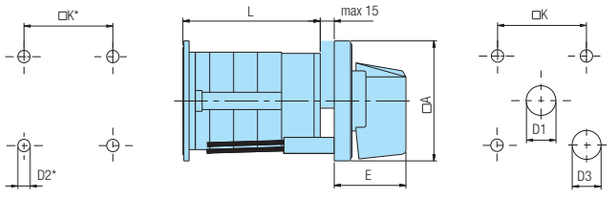
Drilling plan
Rear panel



Drilling plan
Front panel

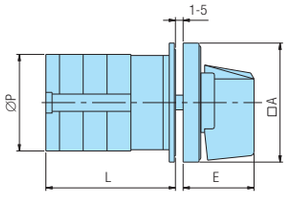


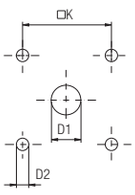
Type	Marking							L			
	□A	D1	D2	D3	E	□K	ØP	1	2	3...	...12
N 12	48	12	5	6,5	26,5	36	39	33,1	42,8	52,5	139,8
N 12H	65	12	5	6,5	34,5	48	58	33,6	43,3	53	140,3
N 20	48	12	5	6,5	26,5	36	39	33,1	42,8	52,5	139,8
N 20H	65	12	5	6,5	34,5	48	58	33,6	43,3	53	140,3
N 25	48	12	5	6,5	26,5	36	43	37,5	51,1	64,7	187,1
N 25H	65	12	5	6,5	34,5	48	58	38	51,6	65,2	187,6
N 32	65	14	5	6,5	34,5	48	58,5	40,9	54,5	68,1	190,5
N 32H	90	14	6	9,5	41,5	68	84	41,6	55,2	68,8	191,2
N 40	65	14	5	6,5	34,5	48	58,5	43,5	58,6	73,7	209,6
N 40H	90	14	6	9,5	41,5	68	84	44,2	59,3	74,4	210,3
N 63	65	14	5	6,5	34,5	48	62	47,3	65,4	83,5	246,4
N 63H	90	14	6	9,5	41,5	68	84	48	66,1	84,2	247,1
N 80/N 125	90	16	6	9,5	41,5	68	86,5	67,3	96,4	125,5	387,4



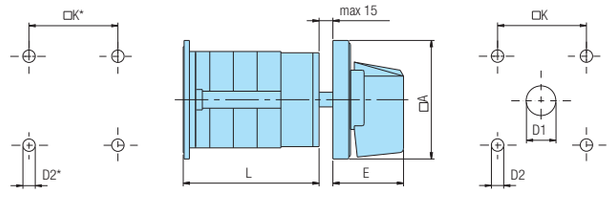
Type	Marking							L			
	□A	D1	D2	D3	E	□K		1	2	3...	...12
N 12	48	12	5	6,5	26,5	36		38,1	47,8	57,5	144,8
N 12H	65	12	5	6,5	34,5	48		38,6	48,3	58	145,3
N 20	48	12	5	6,5	26,5	36		38,1	47,8	57,5	144,8
N 20H	65	12	5	6,5	34,5	48		38,6	48,3	58	145,3
N 25	48	12	5	6,5	26,5	36		42,5	56,1	69,7	192,1
N 25H	65	12	5	6,5	34,5	48		43	56,6	70,2	192,6
N 32	65	14	5	6,5	34,5	48		45,9	59,5	73,1	195,5
N 32H	90	14	6	9,5	41,5	68		46,6	60,2	73,8	196,2
N 40	65	14	5	6,5	34,5	48		48,5	63,6	78,7	214,6
N 40H	90	14	6	9,5	41,5	68		49,2	64,3	79,4	215,3
N 63*	65	14	5	6,5	34,5	48		54,3	72,4	90,5	253,4
N 63H	90	14	6	9,5	41,5	68		55	73,1	91,2	254,1
N 80/N 125	90	16	6	9,5	41,5	68		74,8	103,9	133	394,9

** for* N63 D2*=6 □K*=68



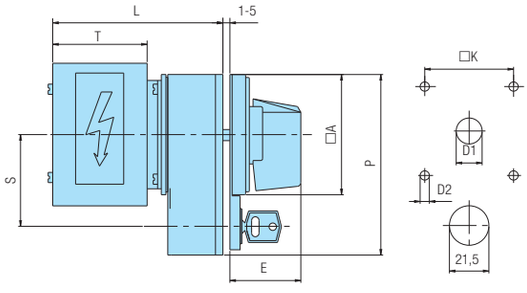


Type	Marking						L			
	□A	D1	D2	E	□K	ØP	1	2	3...	...12
N 12	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8
N 12H	65	12	5	34,5	48	58	33,6	43,3	53	140,3
N 20	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8
N 20H	65	12	5	34,5	48	58	33,6	43,3	53	140,3
N 25	48	12	5	26,5	36	43	37,5	51,1	64,7	187,1
N 25H	65	12	5	34,5	48	58	38	51,6	65,2	187,6
N 32	65	14	5	34,5	48	58,5	40,9	54,5	68,1	190,5
N 32H	90	14	6	41,5	68	84	41,6	55,2	68,8	191,2
N 40	65	14	5	34,5	48	58,5	43,5	58,6	73,7	209,6
N 40H	90	14	6	41,5	68	84	44,2	59,3	74,4	210,3
N 63	65	14	5	34,5	48	62	47,3	65,4	83,5	246,4
N 63H	90	14	6	41,5	68	84	48	66,1	84,2	247,1



Type	Marking						L			
	□A	D1	D2	E	□K		1	2	3...	...12
N 12	48	12	5	26,5	36		38,1	47,8	57,5	144,8
N 12H	65	12	5	34,5	48		38,6	48,3	58	145,3
N 20	48	12	5	26,5	36		38,1	47,8	57,5	144,8
N 20H	65	12	5	34,5	48		38,6	48,3	58	145,3
N 25	48	12	5	26,5	36		42,5	56,1	69,7	192,1
N 25H	65	12	5	34,5	48		43	56,6	70,2	192,6
N 32	65	14	5	34,5	48		45,9	59,5	73,1	195,5
N 32H	90	14	6	41,5	68		46,6	60,2	73,8	196,2
N 40	65	14	5	34,5	48		48,5	63,6	78,7	214,6
N 40H	90	14	6	41,5	68		49,2	64,3	79,4	215,3
N 63*	65	14	5	34,5	48		54,3	72,4	90,5	253,4
N 63H	90	14	6	41,5	68		55	73,1	91,2	254,1

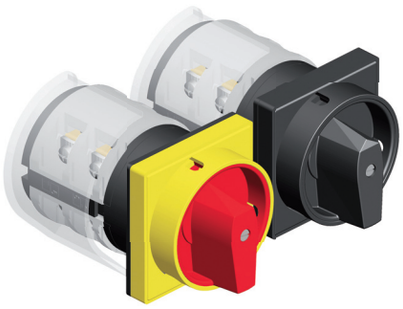
** for* N63 D2*=6 □K*=68



Type	Marking								
	□A	D1	D2	E	□K	P	S	T	L
N 12H	65	12	5	34,5	48	65x98	48	43	81,8
N 20H	65	12	5	34,5	48	65x98	48	43	81,8
N 25H	65	12	5	34,5	48	65x98	48	51	90,1
N 32	65	14	5	34,5	48	65x98	48	51	94,8
N 32B	90	14	6	41,5	68	90x122	60	51	103,4

OPTIONAL EXTRAS

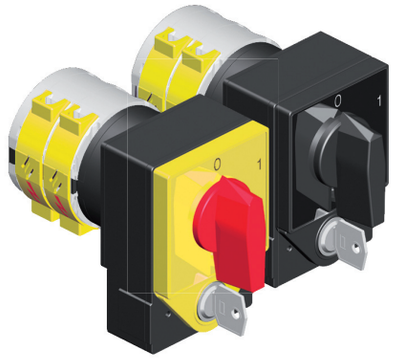
MAIN SWITCH
MAIN SWITCH WITH EMERGENCY



23
25

Locking only in "0".
Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

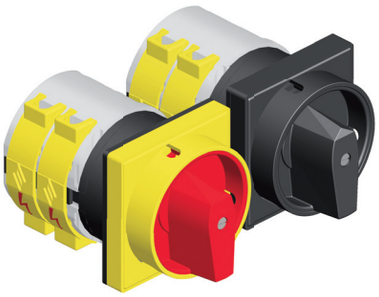
CODE				
				or
N12	U	23	25
N12H	U	23	25
N20	U	23	25
N20H	U	23	25
N25	U	23	25
N25H	U	23	25
N32	U	23	25
N32H	U	23	25
			or
N12	O	23	25
N12H	O	23	25
N20	O	23	25
N20H	O	23	25
N25	O	23	25
N25H	O	23	25
N32	O	23	25
N32H	O	23	25



61
62

Locking by means of the key only in "0".
Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

CODE				
				or
N12H	U	61	62
N20H	U	61	62
N25H	U	61	62
N40	U	61	62
N40B	U	61	62
N63	U	61	62
N63B	U	61	62
N80	U	61	62
N125	U	61	62
			or
N12	U	63	65
N12H	U	63	65
N20	U	63	65
N20H	U	63	65
N25	U	63	65
N25H	U	63	65
N40	U	63	65
N40H	U	63	65
N63	U	63	65
N63H	U	63	65
N80	U	63	65
N125	U	63	65



63
65

Locking only in "0".
Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

CODE				
				or
N12	O	63	65
N12H	O	63	65
N20	O	63	65
N20H	O	63	65
N25	O	63	65
N25H	O	63	65
N40	O	63	65
N40H	O	63	65
N63	O	63	65
N63H	O	63	65
N80	O	63	65
N125	O	63	65

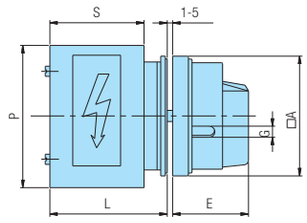
63D
65D

In standard manner locking is in "0".
Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

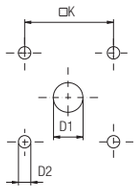
CODE				
				or
N40H	U	63D	65D
N63H	U	63D	65D
N80	U	63D	65D
N125	U	63D	65D
			or
N40H	O	63D	65D
N63H	O	63D	65D
N80	O	63D	65D
N125	O	63D	65D

DIMENSIONAL DRAWINGS (mm)

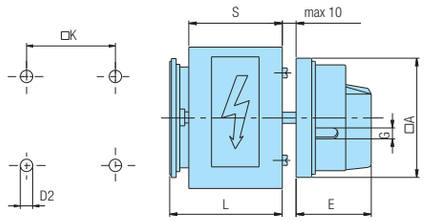
Drilling plan
Rear panel

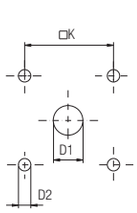


Drilling plan
Front panel

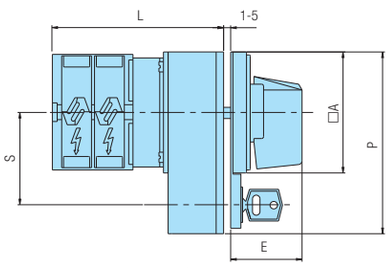


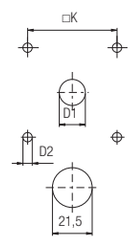
Type	Marking								
	□A	D1	D2	E	G	□K	S	P	L
N 12	48	12	5	34,2	5	36	43	64	51,3
N 12H	65	12	5	38	6	48	43	64	51,8
N 20	48	12	5	34,2	5	36	43	64	51,3
N 20H	65	12	5	38	6	48	43	64	51,8
N 25	48	12	5	34,2	5	36	51	68	59,6
N 25H	65	12	5	38	6	48	51	68	60,1
N 32	65	14	5	38	6	48	51	77	64,9
N 32H	90	14	6	49	7	68	51	77	65,6



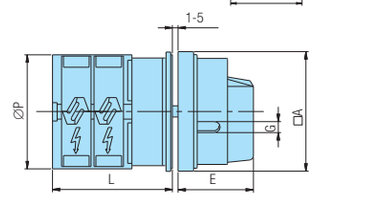


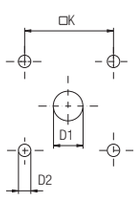
Type	Marking							
	□A	D1	D2	E	G	□K	S	L
N 12	48	12	5	34,2	5	36	43	51,3
N 12H	65	12	5	38	6	48	43	51,8
N 20	48	12	5	34,2	5	36	43	51,3
N 20H	65	12	5	38	6	48	43	51,8
N 25	48	12	5	34,2	5	36	51	59,6
N 25H	65	12	5	38	6	48	51	60,1
N 32	65	14	5	38	6	48	51	64,9
N 32H	90	14	6	49	7	68	51	65,6



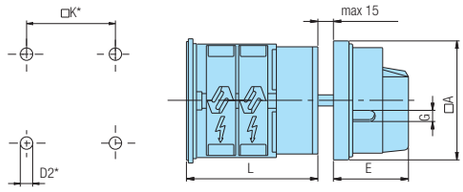


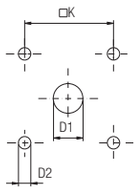
Type	Marking							L			
	□A	D1	D2	E	□K	P	S	1	2	3	...12
N 12H	65	12	5	34,5	48	65x98	48	63,6	73,3	83	170,3
N 20H	65	12	5	34,5	48	65x98	48	63,6	73,3	83	170,3
N 25H	65	12	5	34,5	48	65x98	48	68	81,6	95,2	217,6
N 40	65	14	5	34,5	48	65x98	48	73,5	88,6	103,7	239,6
N 40B	90	16	6	41,5	68	90x122	60	82,4	97,5	112,6	248,5
N 63	65	14	5	34,5	48	65x98	48	77,3	95,4	113,5	276,4
N 63B	90	16	6	41,5	68	90x122	60	86,2	104,3	122,4	256,8
N 80/N 125	90	16	6	41,5	68	90x122	60	95,8	124,9	154	423,4





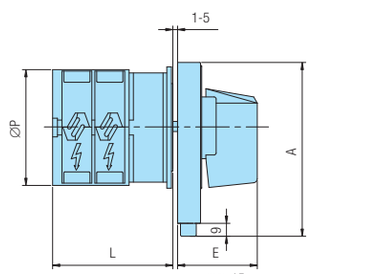
Type	Marking							L			
	□A	D1	D2	E	G	□K	∅P	1	2	3	...12
N 12	48	12	5	34,2	5	36	39	33,1	42,8	52,5	139,8
N 12H	65	12	5	38	6	48	58	33,6	43,3	53	140,3
N 20	48	12	5	34,2	5	36	39	33,1	42,8	52,5	139,8
N 20H	65	12	5	38	6	48	58	33,6	43,3	53	140,3
N 25	48	12	5	34,2	5	36	43	37,5	51,1	64,7	187,1
N 25H	65	12	5	38	6	48	58	38	51,6	65,2	187,6
N 40	65	14	5	38	6	48	58,5	43,5	58,6	73,7	209,6
N 40H	90	14	6	49	7	68	84	44,2	59,3	74,4	210,3
N 63	65	14	5	38	6	48	62	47,3	65,4	83,5	246,4
N63H	90	14	6	49	7	68	84	48	66,1	84,2	247,1
N 80/N 125	90	16	6	49	7	68	88	67,3	96,4	125,5	394,9

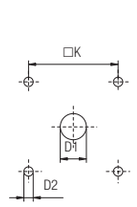




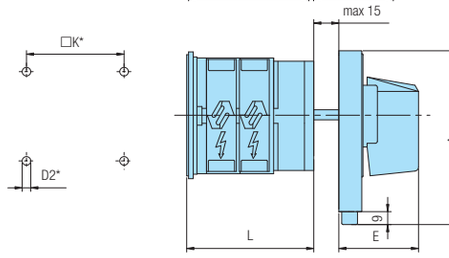
Type	Marking						L			
	□A	D1	D2	E	G	□K	1	2	3	...12
N 12	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
N 12H	65	12	5	38	6	48	38,6	48,3	58	145,3
N 20	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
N 20H	65	12	5	38	6	48	38,6	48,3	58	145,3
N 25	48	12	5	34,2	5	36	42,5	56,1	69,7	192,1
N 25H	65	12	5	38	6	48	43	56,6	70,2	192,6
N 40	65	14	5	38	6	48	48,5	63,6	78,7	214,6
N 40H	90	14	6	49	7	68	49,2	64,3	79,4	215,3
N 63*	65	14	5	38	6	48	54,3	72,4	90,5	253,4
N 63H	90	14	6	49	7	68	55	73,1	91,2	254,1
N 80/N 125	90	16	6	49	7	68	74,8	103,9	133	394,9

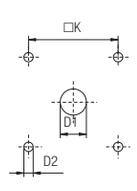
** for* N63 D2*=6 □K*=68





Type	Marking						L			
	A	D1	D2	E	□K	∅P	1	2	3	...12
N 32H	90x112	14	5	48	48	58,5	41,6	55,2	68,8	191,2
N 40H	90x112	14	5	48	48	58,5	44,2	59,3	74,4	210,3
N 63H	90x112	14	5	48	48	62	48	66,1	84,2	247,1
N 80/N 125	90x112	16	6	48	68	86,5	67,3	96,4	125,5	394,9





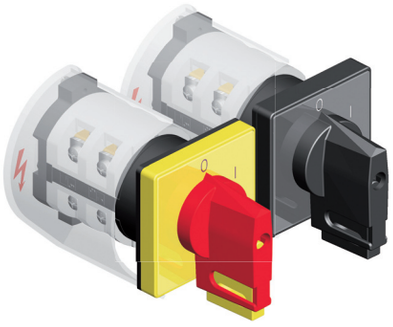
Type	Marking					L			
	A	D1	D2	E	□K	1	2	3	...12
N 32H	90x112	14	5	48	48	46,6	60,2	73,8	196,2
N 40H	90x112	14	5	48	48	49,2	64,3	79,4	215,3
N 63H	90x112	14	5	48	48	55	73,1	91,2	254,1
N 80/N 125	90x112	16	6	48	68	74,8	103,9	133	394,9

** for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

CODE

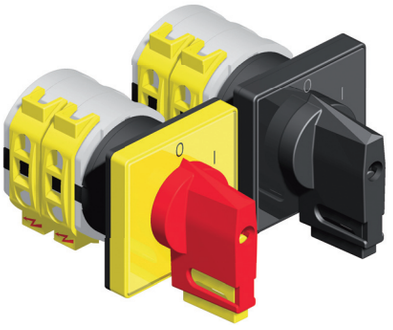
MAIN SWITCH
MAIN SWITCH WITH EMERGENCY



75 73

Locking (1-3) only in "0".
Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

				or
N12	U	73	75
N20	U	73	75
N25	U	73	75
				or
N12	O	73	75
N20	O	73	75
N25	O	73	75

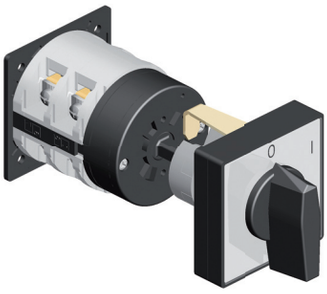


93
95

Locking (1-3) only in "0".
Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.

				or
N12	U	93	95
N20	U	93	95
N25	U	93	95
				or
N12	O	93	95
N20	O	93	95
N25	O	93	95

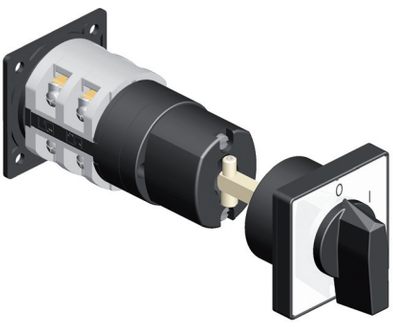
DOOR COUPLING



07
08

Door-opening in any position (07) or only in "0" (08).
When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S).
Minimal distance to the door-hinge 150 mm.

				or
N12H	O	07	08
N20H	O	07	08
N25H	O	07	08
N32	O	07	08
N32H	O	07	08
N40	O	07	08
N40H	O	07	08
N63	O	07	08
N63H	O	07	08
N80	O	07	08
N125	O	07	08



57, 58
58D

Door-opening in any position (57) or only in "0" (58).
Mounting with 4 screws (optional extra 57, 58).
Mounting with 2 screws (optional extra 58D).
Minimal distance to the door-hinge 150 mm.

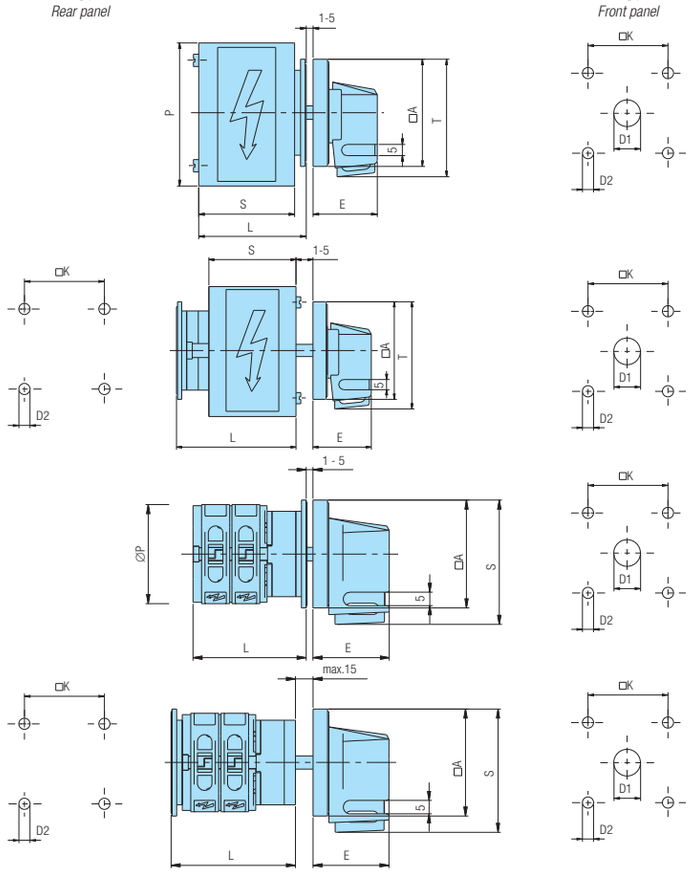
				or
N12	O	57	58
N12H	O	57	58
N20	O	57	58
N20H	O	57	58
N25	O	57	58
N25H	O	57	58
N32	O	57	58
N40	O	57	58
N63	O	57	58

N12	O	58D
N12H	O	58D
N20	O	58D
N20H	O	58D
N25	O	58D
N25H	O	58D
N32	O	58D
N40	O	58D
N63	O	58D

DIMENSIONAL DRAWINGS (mm)

Drilling plan
Rear panel

Drilling plan
Front panel

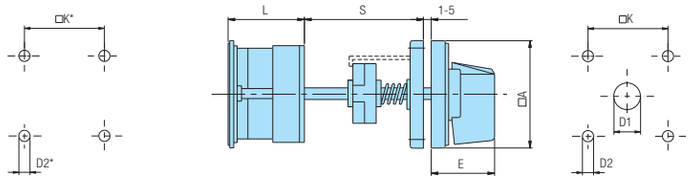


Type	Marking								
	□A	D1	D2	E	□K	S	P	T	L
N 12	48	12	5	34,5	36	43	64	57	51,3
N 20	48	12	5	34,5	36	43	64	57	51,3
N 25	48	12	5	34,5	36	51	68	57	59,6

Type	Marking							
	□A	D1	D2	E	□K	S	T	L
N 12	48	12	5	34,5	36	43	57	51,3
N 20	48	12	5	34,5	36	43	57	51,3
N 25	48	12	5	34,5	36	51	57	59,6

Type	Marking							L			
	□A	D1	D2	E	□K	∅P	S	1	2	3.....12	
N 12	48	12	5	34,5	36	39	57	33,1	42,8	52,5	139,8
N 20	48	12	5	34,5	36	39	57	33,1	42,8	52,5	139,8
N 25	48	12	5	34,5	36	43	57	37,5	51,1	64,7	187,1

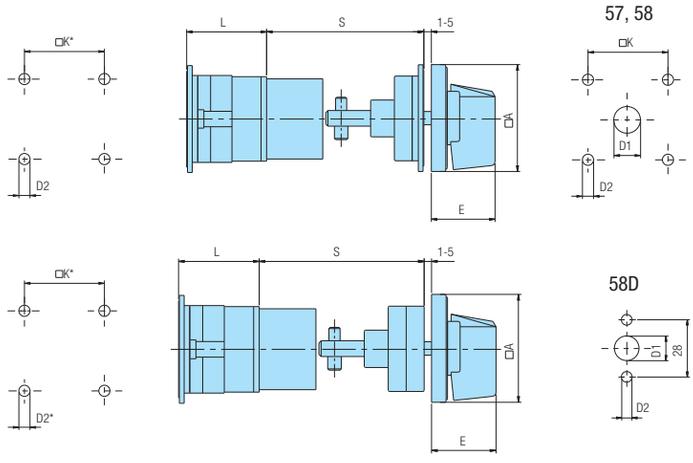
Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12	48	12	5	34,5	36	57	38,1	47,8	57,5	144,8
N 20	48	12	5	34,5	36	57	38,1	47,8	57,5	144,8
N 25	48	12	5	34,5	36	57	42,5	56,1	69,7	192,1



Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
N 25H	65	12	5	34,5	48	60	45,5	59,1	72,7	195,1
N 32	65	14	5	34,5	48	64	48,9	62,5	76,1	198,5
N 32H	90	14	6	41,5	68	64	48,9	62,5	76,1	198,5
N 40	65	14	5	34,5	48	64	51,5	66,6	81,7	217,6
N 40H	90	14	6	41,5	68	64	51,5	66,6	81,7	217,6
N 63*	65	14	5	34,5	48	64	57,3	75,4	93,5	256,4
N 63H	90	14	6	41,5	68	64	57,3	75,4	93,5	256,4
N 80/N 125	90	16	6	41,5	68	76	74,8	103,9	133	394,9

* N63 D2*=6 □K*=68

57, 58



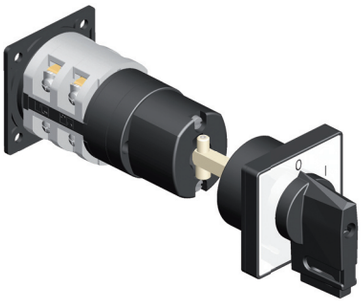
58D

Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
N 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
N 32	65	14	5	34,5	48	45-55	48,9	62,5	76,1	198,5
N 40	65	14	5	34,5	48	45-55	51,5	66,6	81,7	217,6
N 63*	65	14	5	34,5	48	45-55	57,3	75,4	93,5	256,4

* *for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

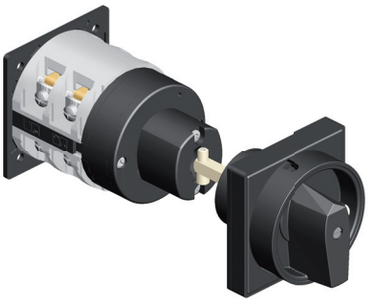
DOOR COUPLING



85

Padlocking (1-3) only in "0".
Door-opening only in "0" position.
When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

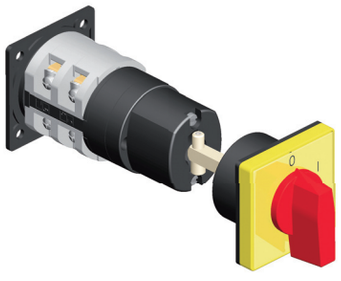
HANDLE	ESCUTCH. PLATE	FRONT PLATE	Y CODE
black	white	black	
grey	white	grey	20
red-yellow	yellow	yellow	40



87

Padlocking only in "0".
Door-opening only in "0" position.
It is being used at the switches 0-1 (60°, 90°). Possible use (60°) with several positions (max. 6).
When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

HANDLE	ESCUTCH. PLATE	FRONT PLATE	Y CODE
black	black	black	
grey	grey	grey	20
red	yellow	yellow	40



84

Door-opening only in "0" position.
Switch with yellow front plate, yellow escutcheon plate and red handle. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

CODE

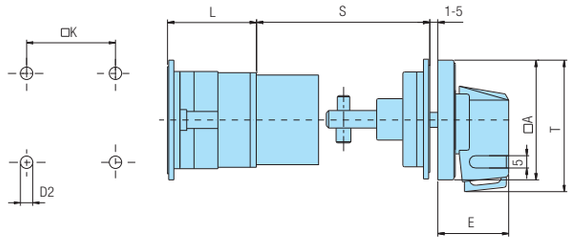
N12	O	85	
N20	O	85	
N25	O	85	

N12	O	87
N12H	O	87
N20	O	87
N20H	O	87
N25	O	87
N25H	O	87
N32	O	87
N40	O	87
N63	O	87

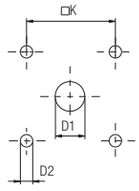
N12	O	84
N12H	O	84
N20	O	84
N20H	O	84
N25	O	84
N25H	O	84
N32	O	84
N40	O	84
N63	O	84

DIMENSIONAL DRAWINGS (mm)

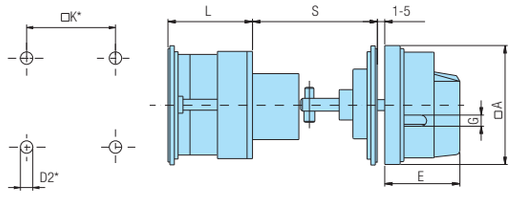
Drilling plan
Rear panel

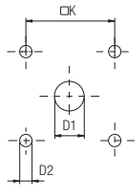


Drilling plan
Front panel



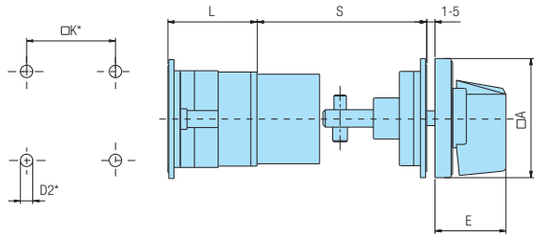
Type	Marking							L			
	□A	D1	D2	E	□K	S	T	1	2	3.....12	
N 12	48	12	5	34,5	36	45-55	57	41,1	50,8	60,5	147,8
N 20	48	12	5	34,5	36	45-55	57	41,1	50,8	60,5	147,8
N 25	48	12	5	34,5	36	45-55	57	45,5	59,1	72,7	195,1

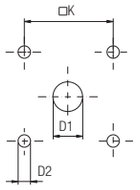




Type	Marking							L			
	□A	D1	D2	E	G	□K	S	1	2	3.....12	
N 12	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5	147,8
N 12H	65	12	5	38	6	48	45-55	41,1	50,8	60,5	147,8
N 20	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5	147,8
N 20H	65	12	5	38	6	48	45-55	41,1	50,8	60,5	147,8
N 25	48	12	5	34,2	5	36	45-55	45,5	59,1	72,7	195,1
N 25H	65	12	5	38	6	48	45-55	45,5	59,1	72,7	195,1
N 32	65	14	5	38	6	48	45-55	48,9	62,5	76,1	198,5
N 40	65	14	5	38	6	48	45-55	51,5	66,6	81,7	217,6
N 63*	65	14	5	38	6	48	45-55	57,3	75,4	93,5	256,4

* *for* N63 D2*=6 □K*=68





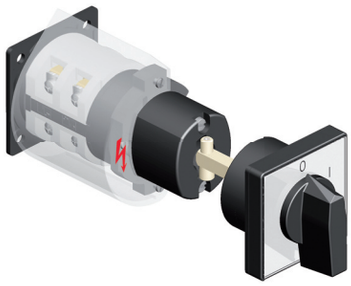
Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3.....12	
N 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
N 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
N 32	65	14	5	34,5	48	45-55	48,9	62,5	76,1	198,5
N 40	65	14	5	34,5	48	45-55	51,5	66,6	81,7	217,6
N 63*	65	14	5	34,5	48	45-55	57,3	75,4	93,5	256,4

* *for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

CODE

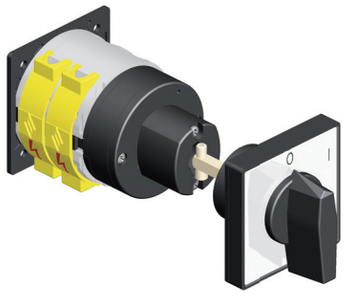
DOOR COUPLING



68

Door-opening only in “0” position.
Protection against an accidental contact with the supplying terminals under voltage for the switches with only two elements in “0” position.
When required “S” is bigger then offered, it is necessary to define “S” or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

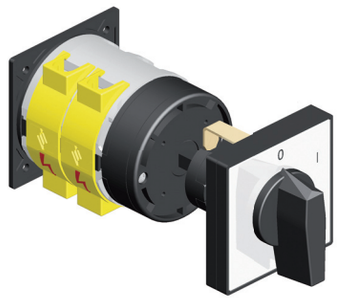
N12	.....	O	68
N12H	.....	O	68
N20	.....	O	68
N20H	.....	O	68
N25	.....	O	68
N25H	.....	O	68
N32	.....	O	68



78

Door-opening only in “0” position.
Protection against an accidental contact with the supplying terminals under voltage only in “0” position.
In a standard manner supplying terminals are protected (switches 0-1; 1-12 poles).
When required “S” is bigger then offered, it is necessary to define “S” or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

N12	.....	O	78
N12H	.....	O	78
N20	.....	O	78
N20H	.....	O	78
N25	.....	O	78
N25H	.....	O	78
N40	.....	O	78
N63	.....	O	78

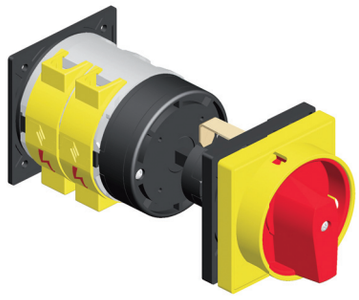


79

Door-opening only in “0” position.
Protection against an accidental contact with the supplying terminals under voltage only in “0” position.
In a standard manner supplying terminals are protected (switches 0-1; 1-12 poles).
When required “S” is bigger then offered, it is necessary to define “S” or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

N12H	.....	O	79
N20H	.....	O	79
N25H	.....	O	79
N40	.....	O	79
N40H	.....	O	79
N63	.....	O	79
N63H	.....	O	79
N80	.....	O	79
N125	.....	O	79

DOOR COUPLING
MAIN SWITCH WITH EMERGENCY



99

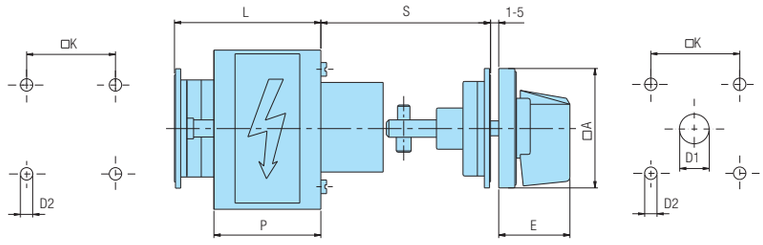
Padlocking (1-3) only in “0”.
Door-opening only in “0” position.
Protection against an accidental contact with the supplying terminals under voltage.
Switching angle 60° and 90°.
When required “S” is bigger then offered, it is necessary to define “S” or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

N12H	.....	O	99
N20H	.....	O	99
N25H	.....	O	99
N40	.....	O	99
N40H	.....	O	99
N63	.....	O	99
N63H	.....	O	99
N80	.....	O	99
N125	.....	O	99

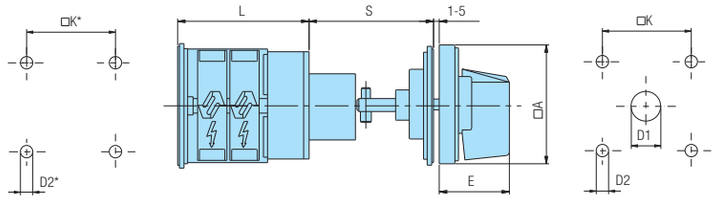
DIMENSIONAL DRAWINGS (mm)

Drilling plan
Rear panel

Drilling plan
Front panel

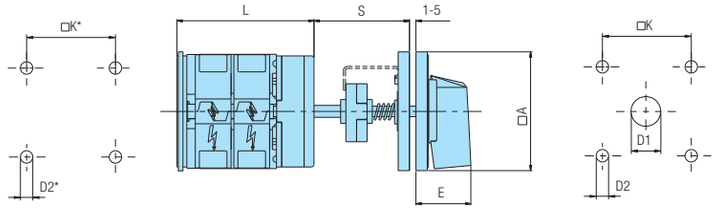


Type	Marking							
	□A	D1	D2	E	□K	S	P	L
N 12	48	12	5	26,5	36	45-55	43	51,3
N 12H	65	12	5	34,5	48	45-55	43	51,3
N 20	48	12	5	26,5	36	45-55	43	51,3
N 20H	65	12	5	34,5	48	45-55	43	51,3
N 25	48	12	5	26,5	36	45-55	51	59,6
N 25H	65	12	5	34,5	48	45-55	51	59,6
N 32	65	14	5	34,5	48	45-55	51	64,9



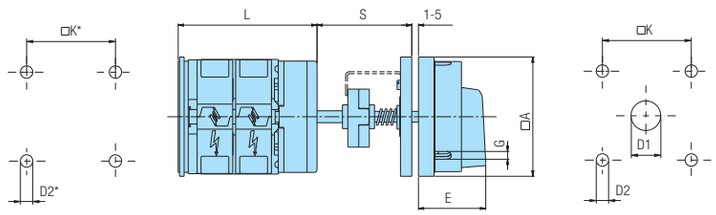
Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...	...12
N 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
N 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
N 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
N 40	65	14	5	34,5	48	45-55	48,5	63,6	78,7	214,6
N 63*	65	14	5	34,5	48	45-55	54,3	72,4	90,5	253,4

** for* N63 D2*=6 □K*=68



Type	Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...	...12
N 12H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
N 25H	65	12	5	34,5	48	60	45,5	59,1	72,7	195,1
N 40	65	14	5	34,5	48	64	51,5	66,6	81,7	217,6
N 40H	90	14	6	41,5	68	64	51,5	66,6	81,7	217,6
N 63*	65	14	5	34,5	48	64	57,3	75,4	93,5	256,4
N 63H	90	14	6	41,5	68	64	57,3	75,4	93,5	256,4
N 80/N 125	90	16	6	41,5	68	76	74,8	103,9	133	394,9

** for* N63 D2*=6 □K*=68

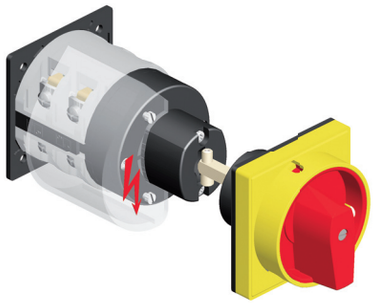


Type	Marking							L			
	□A	D1	D2	E	G	□K	S	1	2	3...	...12
N 12H	65	12	5	34,2	6	48	60	41,1	50,8	60,5	147,8
N 20H	65	12	5	34,2	6	48	60	41,1	50,8	60,5	147,8
N 25H	65	12	5	34,2	6	48	60	45,5	59,1	72,7	195,1
N 40	65	14	5	38	6	48	64	51,5	66,6	81,7	217,6
N 40H	90	14	6	49	7	68	64	51,5	66,6	81,7	217,6
N 63*	65	14	5	38	6	48	64	57,3	75,4	93,5	256,4
N 63H	90	14	6	49	7	68	64	57,3	75,4	93,5	256,4
N 80/N 125	90	16	6	49	7	68	76	74,8	103,9	133	394,9

** for* N63 D2*=6 □K*=68

OPTIONAL EXTRAS

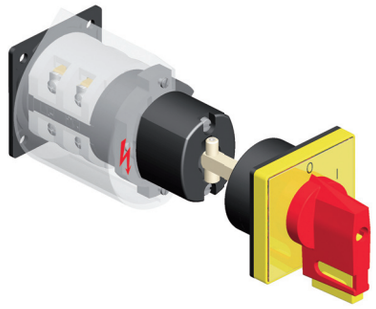
DOOR COUPLING
MAIN SWITCH WITH EMERGENCY



88

Padlocking only in "0".
Door-opening only in "0" position
Protection against an accidental contact with the supplying terminals under voltage only in "0" position. Switching angle 60° and 90°. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

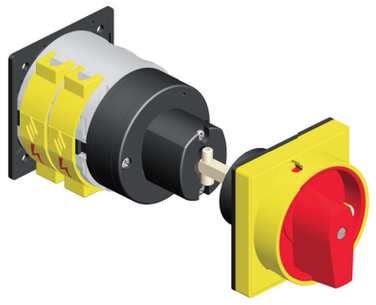
	CODE	
N12	O	88
N12H	O	88
N20	O	88
N20H	O	88
N25	O	88
N25H	O	88
N32	O	88



86

Padlocking (1-3) only in "0".
Door-opening only in "0" position.
Protection against an accidental contact with the supplying terminals under voltage only in "0" position. Switching angle 60° and 90°. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

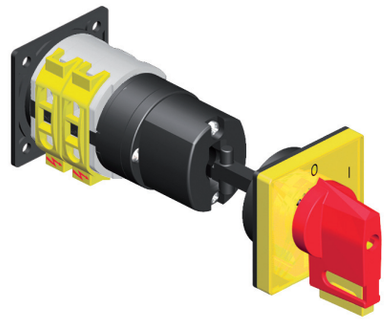
	CODE	
N12	O	86
N20	O	86
N25	O	86



98

Padlocking only in "0".
Door-opening only in "0" position.
Protection against an accidental contact with the supplying terminals under voltage.
Switching angle 60° and 90°.
When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

	CODE	
N12	O	98
N12H	O	98
N20	O	98
N20H	O	98
N25	O	98
N25H	O	98
N40	O	98
N63	O	98



96

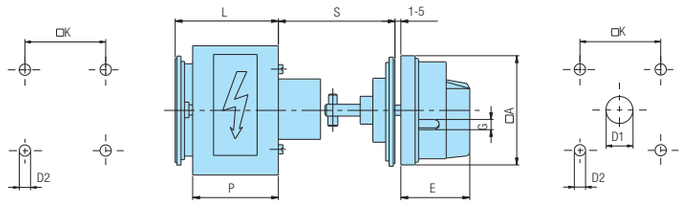
Padlocking (1-3) only in "0".
Door-opening only in "0" position.
Protection against an accidental contact with the supplying terminals under voltage.
Switching angle 60° and 90°.
When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

	CODE	
N12	O	96
N20	O	96
N25	O	96

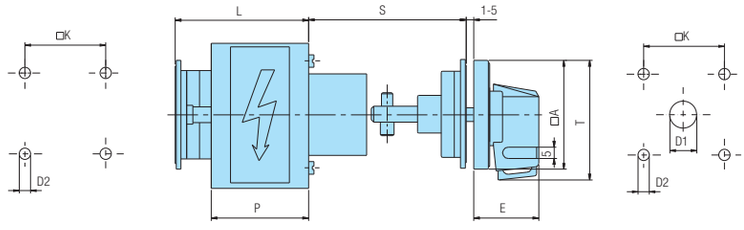
DIMENSIONAL DRAWINGS (mm)

Drilling plan
Rear panel

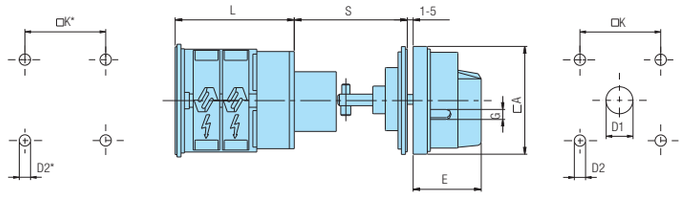
Drilling plan
Front panel



Type	Marking								
	□A	D1	D2	E	G	□K	S	P	L
N 12	48	12	5	34,2	5	36	45-55	43	51,3
N 12H	65	12	5	38	6	48	45-55	43	51,3
N 20	48	12	5	34,2	5	36	45-55	43	51,3
N 20H	65	12	5	38	6	48	45-55	43	51,3
N 25	48	12	5	34,2	5	36	45-55	51	59,6
N 25H	65	12	5	38	6	48	45-55	51	59,6
N 32	65	14	5	38	6	48	45-55	51	64,9

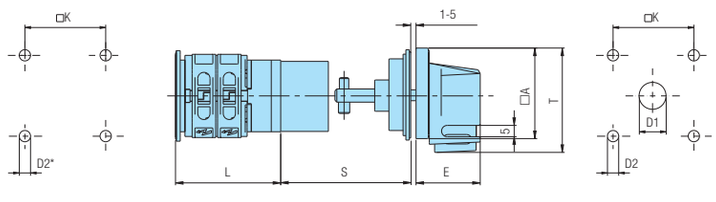


Type	Marking								
	□A	D1	D2	E	□K	S	P	T	L
N 12	48	12	5	34,5	36	45-55	43	57	51,3
N 20	48	12	5	34,5	36	45-55	43	57	51,3
N 25	48	12	5	34,5	36	45-55	51	57	59,6



Type	Marking							L			
	□A	D1	D2	E	G	□K	S	1	2	3... ...12	
N 12	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5	147,8
N 12H	65	12	5	38	6	48	45-55	41,1	50,8	60,5	147,8
N 20	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5	147,8
N 20H	65	12	5	38	6	48	45-55	41,1	50,8	60,5	147,8
N 25	48	12	5	34,2	5	36	45-55	45,5	59,1	72,7	195,1
N 25H	65	12	5	38	6	48	45-55	45,5	59,1	72,7	195,1
N 40	65	14	5	38	6	48	45-55	51,5	66,6	81,7	217,6
N 63*	65	14	5	38	6	48	45-55	57,3	75,4	93,5	256,4

* *for* N63 D2*=6 □K*=68



Type	Marking							L			
	□A	D1	D2	E	□K	S	T	1	2	3... ...12	
N 12	48	12	5	34,5	36	45-55	57	41,1	50,8	60,5	147,8
N 20	48	12	5	34,5	36	45-55	57	41,1	50,8	60,5	147,8
N 25	48	12	5	34,5	36	45-55	57	45,5	59,1	72,7	195,1

OPTIONAL EXTRAS

PLASTIC CASING

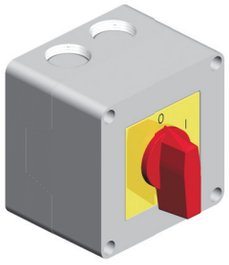
03

Fast-on terminals (see page 10)

Type	Casing size	
	90 X 90	110 X 110
N12	o	
N20	o	
N25	o	
N32		o

28

The left direction is blocked.

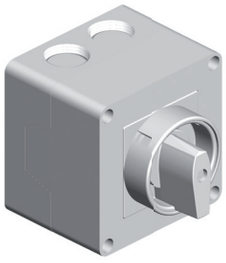


24

Standard switch with yellow escutcheon plate and red handle.

15

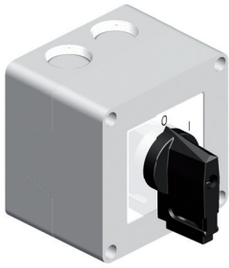
In a standard manner, the red lamp (230 V) is built in the right bottom corner. Possible voltages are 110, 400 V and green lamp, too (please define). On special request second lamp can be built in the left bottom corner.



06
23
25

Locking only in "0"
(See pages 12 and 34)

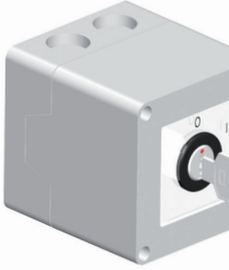
	POSSIBILITY	HANDLE	COVER PLATE	CASING
06		grey	grey	grey
23		black	black	grey
25		red	yellow	grey



56
73
75

Locking (1-3 padlocks) only in "0"
(See pages 12 and 36)

	HANDLE	ESCUTCH. PLATE	CASING	Y CODE
	black	white	grey	
56	grey	white	grey	20
73	black	black	grey	
75	red-yellow	yellow	grey	



30

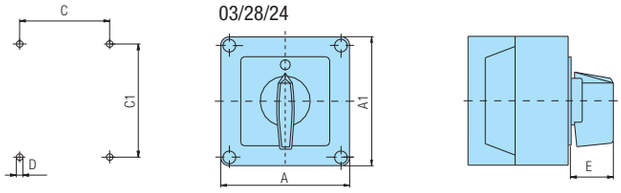
Locking and pull-out of the key at 90°.
Possible 1 - 4 locked positions within 360°
(please define). Protection IP42.

CODE

N12	P	03					
N20	P	03					
N25	P	03					
N32	P	03					
N12	P	28					
N20	P	28					
N25	P	28					
N32	P	28					
N40	P	28					
N63	P	28					
N12	P	24					
N20	P	24					
N25	P	24					
N32	P	24					
N40	P	24					
N63	P	24					
N80	P	24					
N125	P	24					
N12	P	15					
N20	P	15					
N25	P	15					
N32	P	15					
N40	P	15					
N63	P	15					
N80	P	15					
N125	P	15					
						or	
N12	P	06	23	25			
N20	P	06	23	25			
N25	P	06	23	25			
N32	P	06	23	25			
N40	P	06	23	25			
N63	P	06	23	25			
N80	P	06	23	25			
N125	P	06	23	25			
						or	
N12	P	56	73	75			
N20	P	56	73	75			
N25	P	56	73	75			
N12	P	30					
N20	P	30					
N25	P	30					

DIMENSIONAL DRAWINGS (mm)

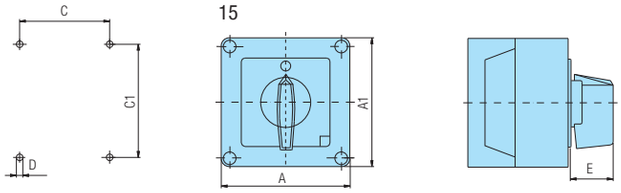
Drilling plan
Rear panel



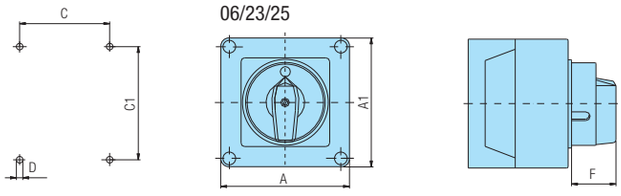
03/28/24

The table refers to the optional extras 03, 28, 24 and 15

Type	Casing size	Number of elements		A	A1	C	C1	D	E
		L	L1						
N 12	75X75	1-2	3-4	75	75	64	50	4,5	19
N 20		1-2	3-4						
N 25		1	2-3						
N 12	90X90	1-3	4-6	90	90	63	79	4,5	25
N 20		1-3	4-6						
N 25		1-2	3-4						
N 32		1-2	3-4						
N 12	110X110	1-4	5-8	110	110	83	98,4	4,5	32
N 20		1-4	5-8						
N 25		1-3	4-5						
N 32		1-3	4-5						
N 40		1-2	3-5						
N 63		1-2	3-4						
N 32	125X175	1-3	4-5	125	175	112	146	5,5	32
N 40		1-2	3-4						
N 63		1-2	3-4						
N 80/N 125		1	2						
N 80/N 125	180X254	1-2	3-4	180	254	120	190	5,5	41,5

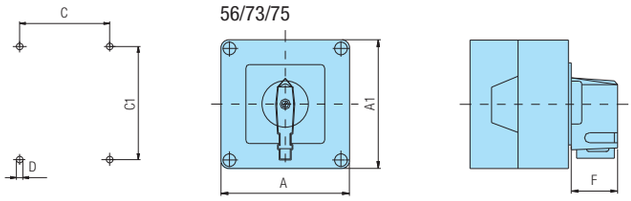


15



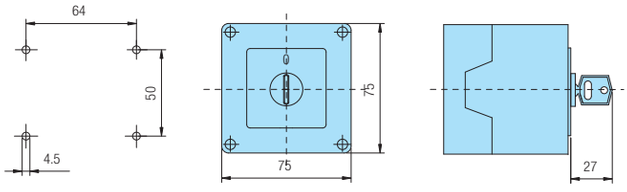
06/23/25

Type	Casing size	Number of elements		A	A1	C	C1	D	F
		L	L1						
N 12	75X75	1-2	3-4	75	75	64	50	4,5	28
N 20		1-2	3-4						
N 25		1	2-3						
N 12	90X90	1-3	4-6	90	90	63	79	4,5	28
N 20		1-3	4-6						
N 25		1-2	3-4						
N 32		1-2	3-4						
N 12	110X110	1-4	5-8	110	110	83	98,4	4,5	38,5
N 20		1-4	5-8						
N 25		1-3	4-5						
N 32		1-3	4-5						
N 40		1-2	3-5						
N 63		1-2	3-4						
N 32	125X175	1-3	4-5	125	175	112	146	5,5	38,5
N 40		1-2	3-4						
N 63		1-2	3-4						
N 80/N 125		1	2						
N 80/N 125	180X254	1-2	3-4	180	254	120	190	5,5	49



56/73/75

Type	Casing size	Number of elements		A	A1	C	C1	D	F
		L	L1						
N 12	75X75	1-2	3-4	75	75	64	50	4,5	27
N 20		1-2	3-4						
N 25		1	2-3						



30

Type	Casing size	Number of elements
		L1
N 12	75X75	1-2
N 20		1-2
N 25		1

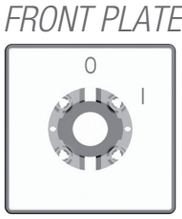
ACCESSORIES

HANDLES

		ORDERING CODE Size						
	Colour	A0	A1		A2			
	grey	R011-6	R111-6	R111-7	R211-6	R211-7	R211-8	R211-9
	red	R012-6	R112-6	R112-7	R212-6	R212-7	R212-8	R212-9
	black	R014-6	R114-6	R114-7	R214-6	R214-7	R214-8	R214-9
	yellow	R015-6	R115-6	R115-7	R215-6	R215-7	R215-8	R215-9
	grey		R121-6	R121-7	R221-6	R221-7	R221-8	R221-9
	ed		R122-6	R122-7	R222-6	R222-7	R222-8	R222-9
	black		R124-6	R124-7	R224-6	R224-7	R224-8	R224-9
	yellow		R125-6	R125-7	R225-6	R225-7	R225-8	R225-9

Last number in ordering code (6, 7, 8 or 9) means the shaft square required for requested handle.
□ *- standard handle for defined mounting size*

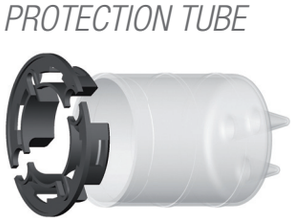
FRONT PLATES



Front plate - standard form. Available at all sizes (A0, A1, A2).
In a standard manner it is being produced in black colour; grey and yellow colour available on request.

Front plate with title. Available at all sizes (A0, A1, A2).
In a standard manner it is being produced in black colour; grey and yellow colour available on request.

PROTECTION TUBE

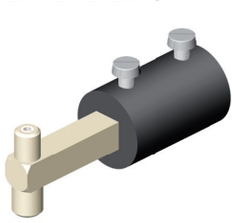


Flexible rubber shroud.
Contact degree of protection IP42 for N12, N20, N25, N32, N40 and N63.

PROTECTION COVER

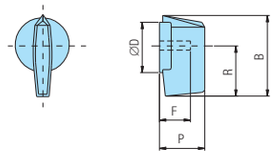
Finger protection shrouds for supplying terminals.

EXTENDED SHAFT

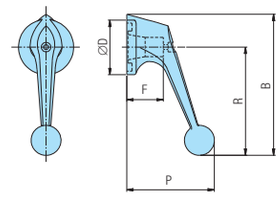


Adjustable door - coupling extension shaft, 70 mm length max.
For switches N12, N20, N25, N32, N40 and N63.

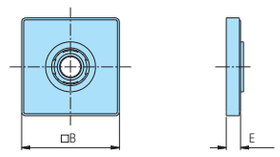
DIMENSIONAL DRAWINGS (mm)



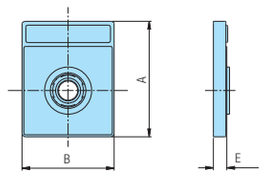
Size	Marking				
	B	ØD	F	P	R
A0	39,5	27,5	16	19	23,5
A1	53	35	20	25	32
A2	70,5	48	26,5	32	43,5



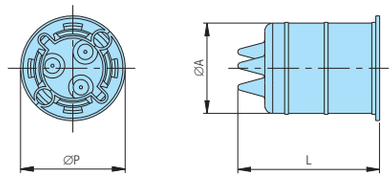
Size	Marking				
	B	ØD	F	P	R
A1	81,5	35	23	52	61,5
A2	105,5	48	26,5	65	79,5



Size	Marking	
	□B	E
A0	48	7,5
A1	65	9,5
A2	90	9,5



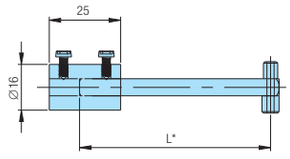
Size	Marking		
	A	B	E
A0	60	48	7,5
A1	80,5	65	9,5
A2	110	90	9,5



Type	No. of elements	ØP	ØA	L	Ordering code
N12, N20, N25	1-2	66	57	90	B85913
	3-4			115	B85943
	5-6			140	B85944
N32, N40	1-4	89	87	112,5	B90494
N63	1-3				

Type	Ordering code
N12	B71289
N20	B71289
N25	B93829

Tip/Type	Ordering code
N40	B92919
N63	610149
N125	B90404



L	Ordering code
70	B85992
150	B85893
200	B85894

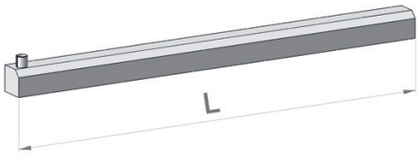
** - Possible to cut desired lenght*

ACCESSORIES

MODUL FOR OPTIONAL EXTRA “108D”

Modul 108D	*Ordering code*
	B71717

SHAFT FOR OPTIONAL EXTRA “102”



L	*Option*	*Ordering code*
100	102	B71840
200	102-200	B71841

OPTIONAL EXTRAS - REVIEW

OPTIONAL EXTRA	Page	Front plate with title (N)	Possible optional extra combinations				
			+39D		+51		
			A0	A1	A0	A1	A2
02	24	+			+	+	+
03	10	+	+	+	+	+	
04	8	+		+		+	+
05	14	+					
06	12	+	+	+	+	+	+
06D	12						
07	36	+			+	+	+
08	36	+			+	+	+
09	14						
10	18						
11	14						
12	18						
13	14	+					
15	32	+	+	+			
16	22	+					
17	22	+					
18	28	+			+	+	
19	26	+	+	+	+	+	
20	16						
21	32	+					
22	32	+					
23	34	+	+	+	+	+	
24	8	+	+	+	+	+	+
25	34	+	+	+	+	+	
26	22	+					
27	22	+					
28	32	+	+	+	+	+	+
29	18						
29D	18				■		
29K	20				■		
30	18						
31	30						
33	28						
34	30	+				+	
36	16						
37	16						
38D	30		■	■			
38T	30		■	■			
39D	30		■	■	+	+	
39T	30		■	■	+	+	
40	30	+			+	+	+
41	18						
41D	20				■		
41K	20				■		

OPTIONAL EXTRA	Page	Front plate with title (N)	Possible optional extra combinations				
			+39D		+51		
			A0	A1	A0	A1	A2
42	18						
43	26	+	+	+	+	+	
47	16				■		
48	28						
48D	28						
49	28						
51	8	+	+	+	■	■	■
53	10	+		+		+	+
53D	10	+		+		+	+
56	12	+	+		+		
57	36	+	+	+	+	+	
58	36	+			+	+	
58D	36	+	■	■	+	+	
61	34	+					
62	34	+					
63	34	+	+	+	+	+	+
63D	34						
65	34	+	+	+	+	+	+
65D	34						
67	16				■		
68	40	+	+	+	+	+	
69	26	+	+	+	+	+	+
71	20						
72	20						
73	36	+	+		+		
75	36	+	+		+		
76	20						
77	20						
78	40	+	+	+	+	+	
79	40	+			+	+	+
84	38	+	+	+	+	+	
85	38	+	+		+		
86	42	+	+		+		
87	38	+	+	+	+	+	
88	42	+	+	+	+	+	
93	36	+	+		+		
95	36	+	+		+		
96	42	+	+		+		
98	42	+	+	+	+	+	
99	40	+				+	+
102	24	+	■	■	+	+	
108D	24	+	■	■	+	+	
258	24	+	+	+	+	+	

39D - *switch mounting with 2 screws*
51 - *protection degree IP65*
■ - *included in this optional extra*

Order sheet for special switches

Purchaser *Phone* *Telefax* *Date*

Switch type:

N
F ☐☐☐☐ *or*

Switch data:
Voltage _____V
Current _____A
Power _____kW
Description of the equipment to be switched:

_____
_____

Mounting form:
U - *Front*
O - *Rear*
P - *Plastic casing*
L - *Metal casing*

Front part:

	Handle	*Front plate*	*Escutch. plate*
Black	■	■	☐
Grey	☐	☐	☐
Red	☐		
Yellow	☐	☐	☐
White			■

Optional extra: ☐☐

_____
_____

Additional requirements:
_____
_____
_____
_____

REMARK: ■ - *Standard combination of colours and forms. Please mark the desired request (* ☒ *or* ☒ *).*

Form:

Handle

■ A00, A0, A1, A2, A3

☐ A1, A2, A3

☐ A3

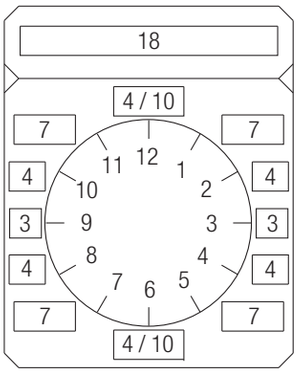
Front plate

■ *Standard* A00, A0, A1, A2, A3

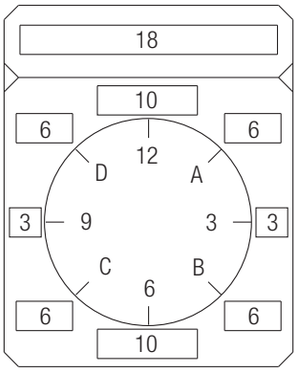
☐ *With title* A00, A0, A1, A2

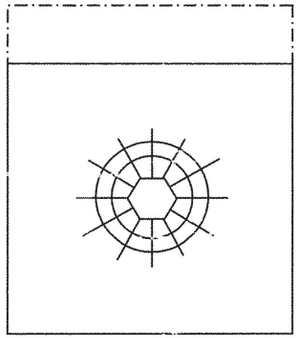
Max. number of characters

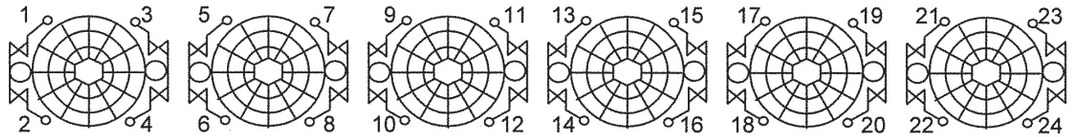
30° / 60°



45° / 90°







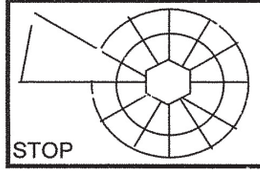
POSITIONS

CAM #

0		
15		
30		
45		
60		
75		
90		
105		
120		
135		
150		
165		
180		
195		
210		
225		
240		
255		
270		
285		
300		
315		
330		
345		

MOUNTING	SHAFT LENGTH	DRILL & TAP	FLAT

DIMENSIONS IN MM.



STOP

HANDLE

LEGEND

NAME

DATE

REV / DATE

CONTROL SWITCHES INTERNATIONAL, INC.
2425 MIRA MAR AVENUE,
LONG BEACH , CA 90815
www.controlswitches.com
csiinfo@controlswitches.com
800-521-1677
562-498-7331
FAX 562-498-2402

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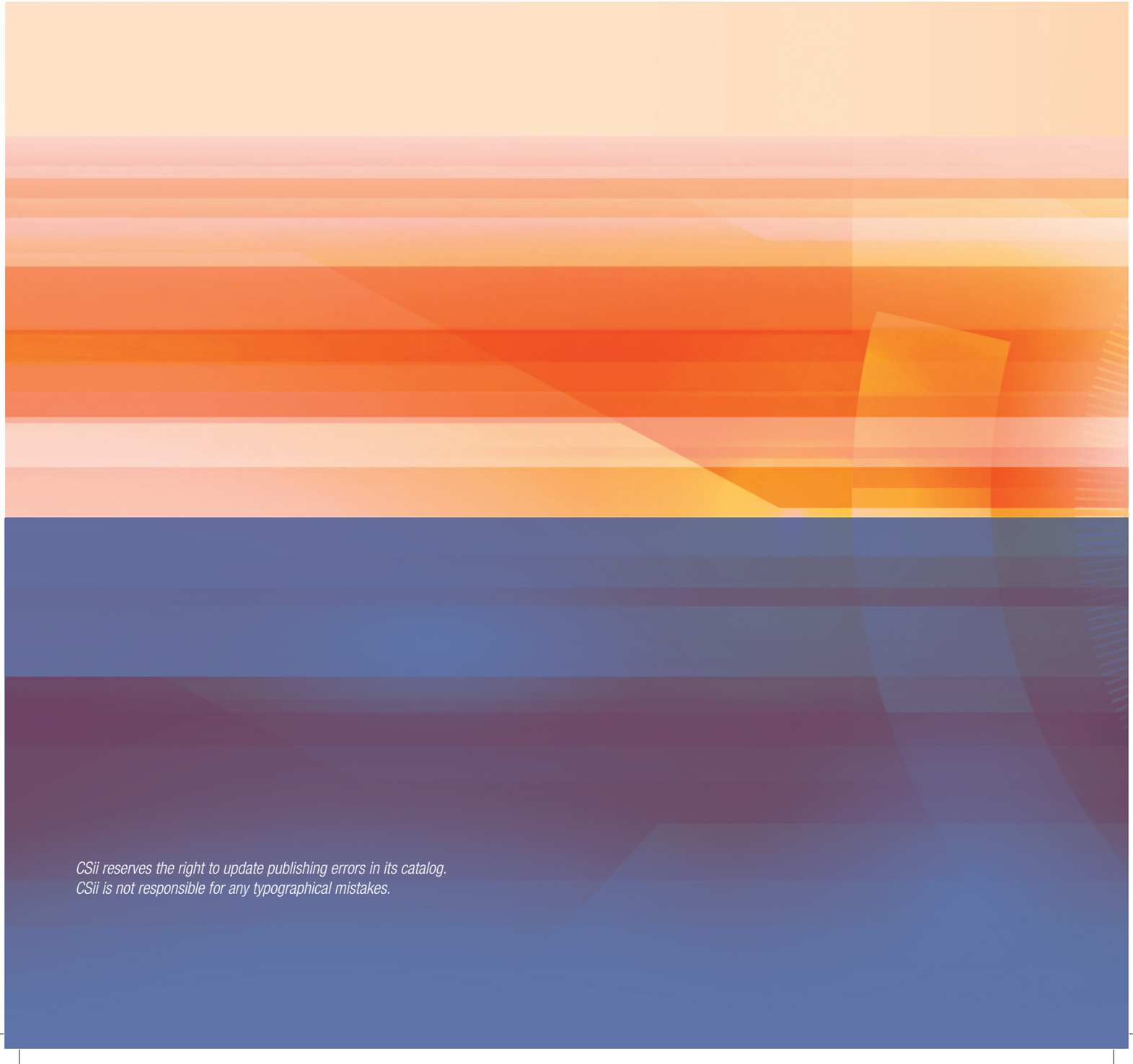

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