

Poduzeće za proizvodnju i promet signalne i upravljačke tehnike; niskonaponska sklopna tehnika - tipkala Ø 22 i Ø 30; elektronski upravljački sistemi u drvnjoj industriji.



SIGNALNO KONTAKTNI ELEMENTI Ø 22**OPĆENITO**

Serijska obuhvaća: tipkala, preklopnike, svjetleća tipkala, svjetiljke, ručne preklopnike - namijenjene upravljanju i kontroli istosmjernih i izmjeničnih strujnih krugova.

STUPANJ ZAŠTITE

IP 65 (IEC 529, CEI 70-1)

TEMPERATURA

Radna temperatura -20° C do +55° C

Skladištenje: -40° C do 70° C

MEHANIČKE KARAKTERISTIKE

Trajnost tipkala: 30×10^6 pritisaka

Trajnost svjetlećeg tipkala i preklopnika: 10^6 pritisaka

Trajnost zakretnog tipkala: 500.000 pritisaka

KONTAKTNI ELEMENT

Učvršćivanje žice: vijkom

Maksimalna debljina žice: 2,5 mm

Stupanj zaštite: IP 20

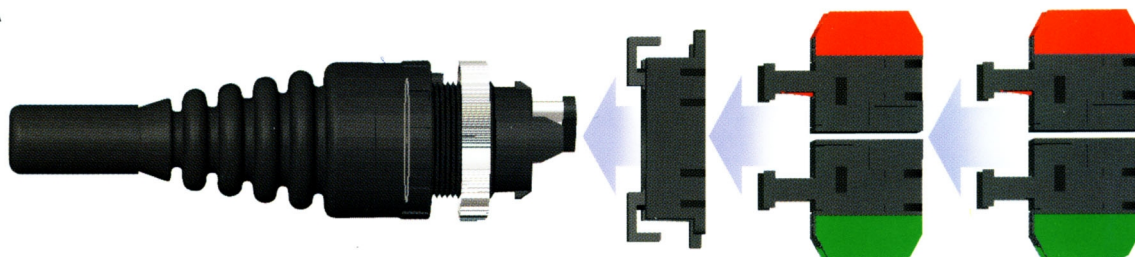
ELEKTRIČNE KARAKTERISTIKE**KONTAKTNOG ELEMENTA**

Izolacija: $U_i=600$ V

Temperaturni tok: $I_{th}=10$ A

AC 11								
Ue	12	24	48	110	230	400	500	600
Ie	10	10	8,5	6,5	4,5	2,6	2,1	1,6

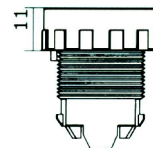
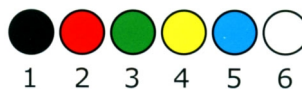
DC 11					
Ue	12	24	48	110	220
Ie	18	5	2,5	1,1	0,6

MONTAŽA



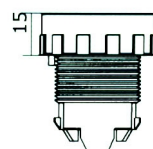
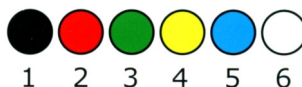
ER

Tipkalo



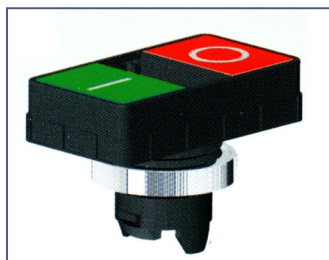
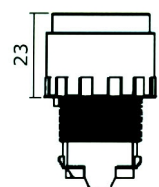
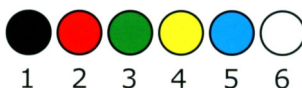
ERR

Tipkalo udarno



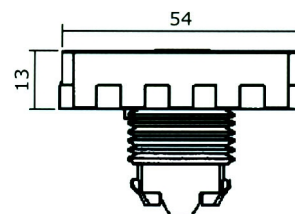
ER/PP

Tipkalo
"pritisni-pritisni"



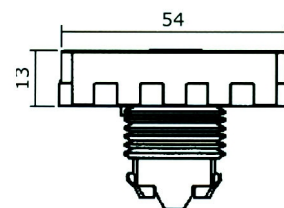
EPD/O-I

Duplo tipkalo
start-stop



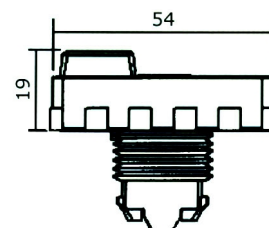
EPD/F

Duplo tipkalo
sa strelicom



EPDR/O-I

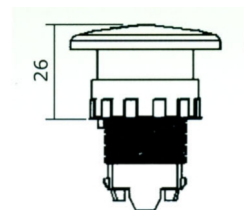
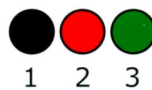
Duplo tipkalo
start-stop
s odignutom
nulom





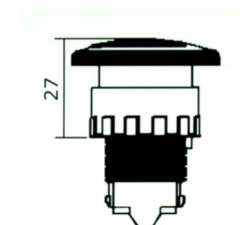
EF

Tipkalo
gljivasto
Ø 40 ili Ø 60



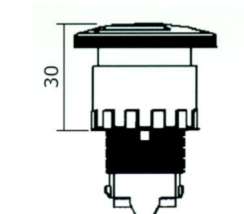
EFB

Tipkalo gljivasto
zaktretno
Ø 40 ili Ø 60



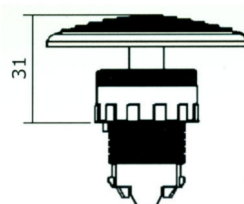
EFBC

Tipkalo gljivasto
zaktretno Ø 40
s vremenskim
iskapćanjem



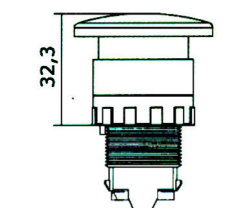
EFBC

Tipkalo
gljivasto
pomićno
Ø 60



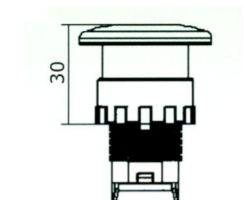
EFB/PP

Tipkalo gljivasto
zakretno Ø 40
"pritisni-pritisni"



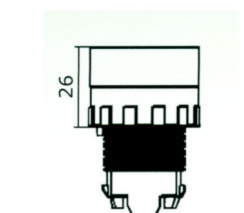
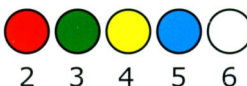
EFC

Tipkalo gljivasto
s ključem
Ø 40



ERL

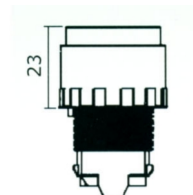
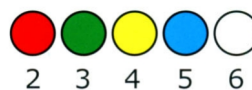
Svjetleće
tipkalo





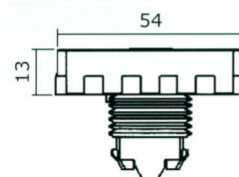
ERL/PP

Svjetleće tipkalo
"pritisni-pritisni"



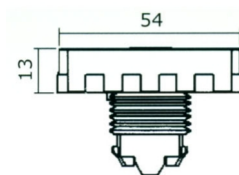
EPDL/O-I

Duplo tipkalo
svjetleće
start-stop



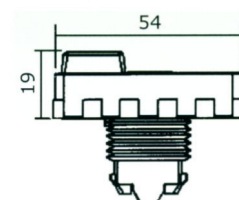
EPDL/F

Duplo tipkalo
svjetleće
sa strelicama



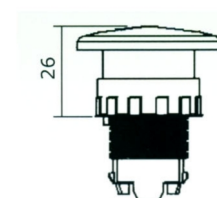
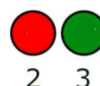
EPDLR/O-I

Duplo tipkalo
svjetleće start-stop
s odignutom nulom



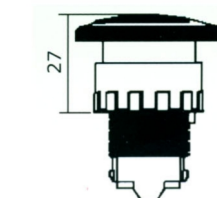
EFL

Tipkalo
gljivasto
svjetleće Ø 40



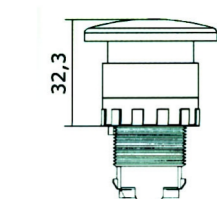
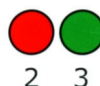
EFBL

Tipkalo gljivasto
svjetleće zakretno
Ø 40



EFBL/PP

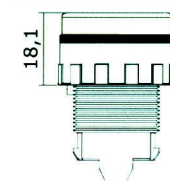
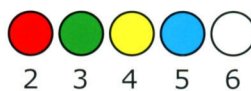
Tipkalo gljivasto
svjetleće zakretno
"pritisni-pritisni"
Ø 40





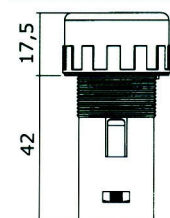
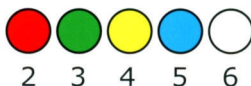
EL

Signalna svjetiljka



ELE

Signalna svjetiljka
s kontaktima



RESET

Reset tipka

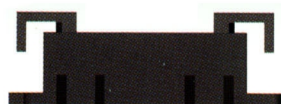


T22

Slijepi čep

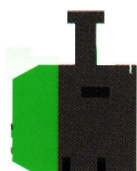
EB

Međuelement



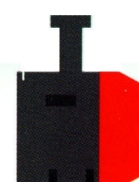
EC/NO

Kontakt
element
NO-radni



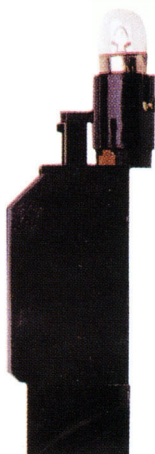
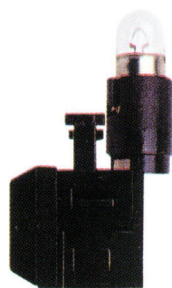
EC/NC

Kontakt
element
NC-mirni



ECD

Grlo
za
Ba9S



ECL

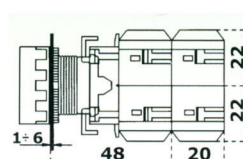
Kontakt s
bljeskalicom

Volti
24 V
230/130 V

ECT

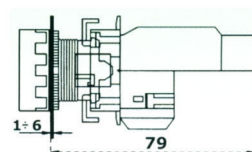
Kontakt s
transformatorom

Volti
110/6 V
230/6 V
400/6 V



S kontaktima: EC-ECD

Mjere



S kontaktima: ECT-ECL



ES

Preklopnik



ESL-L

Svjetleći
Preklopnik

ESC

Preklopnik
s ključem

Tip

Položaj

Oznaka za
izvlačenje ključa

1 ●

2 ●

3 ●

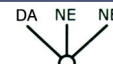
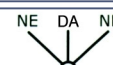
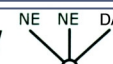
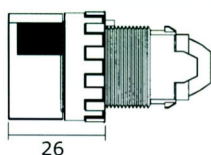
2 ●

3 ●

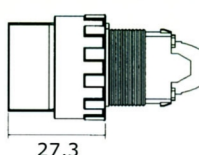
4 ●

5 ●

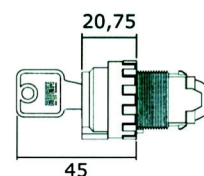
6 ○

AStalni
Lijevo - Desno**U****CD**Stalni
Sredina - Desno**V****CD/R**Trenutni
Sredina - Desno**W****E**Stalni
Lijevo - Sredina - Desno**X****E/RC**Trenutni
Lijevo - Desno**Y****E/RD**Stalni Lijevo
Trenutni Desno**Z****E/RS**Stalni Desno
Trenutni Lijevo**J**

26



27,3



20,75

45



EM

Ručni
preklopnik
2 ili 4
pozicije

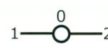
EMB

Ručni
preklopnik
s blokadom
2 ili 4
pozicije

Tip

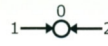
Položaj

2F



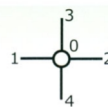
Dvopoložajni stalni

2R



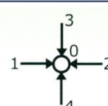
Dvopoložajni trenutni

4F



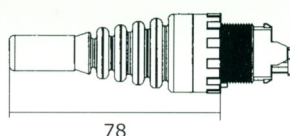
Četveropoložajni stalni

4R



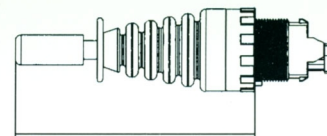
Četveropoložajni trenutni

EM



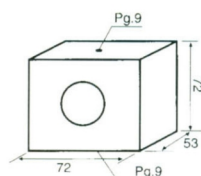
78

EMB

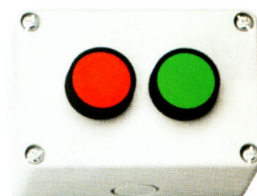
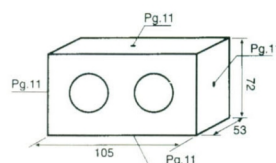


85

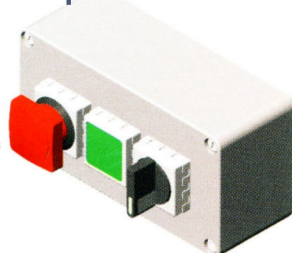
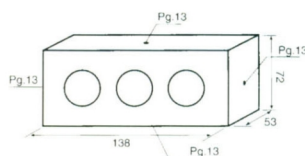
Kućište s jednim provrtom



EV2 Kućište s dva provrta

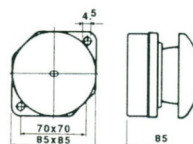


EV 3 Kućište s tri provrta

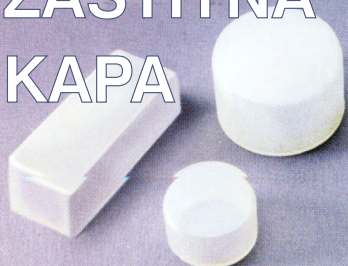


EV 90

Gljiva Ø 90 u žutom kućištu



ZAŠTITNA KAPA



Tip Za

ERPR	Tipkalo
ERPL	Svjetleće tipkalo
ERPF	Tipkalo gljivasto Ø 40
ERPD	Duplo tipkalo
ERPDR	Duplo tipkalo odignuto

PLOČICA



Tip Veličina Materijal Oznaka

EQ8	30x40	PVC	Neutral
EQ15	30x50	PVC	Neutral
EQ16	30x40	Metal	Neutral
EQ21	30x45	Metal	Neutral
ED40	Ø 40	PVC	Stop
ED60	Ø 60	PVC	Stop
ED90	Ø 90	PVC	Stop

Oznake



SIGNALNO KONTAKTNI ELEMENTI METALNI Ø 22

OPĆENITO

Serijska obuhvaća: tipkala, preklopnike, svjetleća tipkala, svjetiljke, ručne preklopnike - namijenjene upravljanju i kontroli istosmjernih i izmjeničnih strujnih krugova.

STUPANJ ZAŠTITE

IP 65 (IEC 529, CEI 70-1)

TEMPERATURA

Radna temperatura -20° C do +55° C

Skladištenje: -40° C do 70° C

MEHANIČKE KARAKTERISTIKE

Trajnost tipkala: 30×10^6 pritisaka

Trajnost svjetlećeg tipkala i preklopnika: 10^6 pritisaka

Trajnost zakretnog tipkala: 500.000 pritisaka

KONTAKTNI ELEMENT

Učvršćivanje žice: vijkom

Maksimalna debljina žice: 2,5 mm

Stupanj zaštite: IP 20

ELEKTRIČNE KARAKTERISTIKE

KONTAKTNOG ELEMENTA

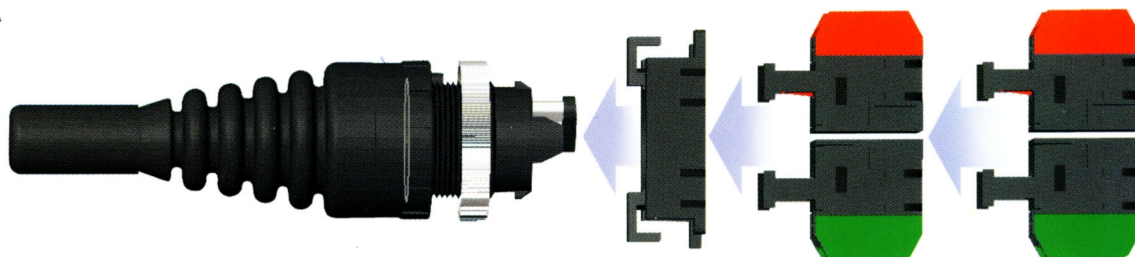
Izolacija: $U_i=600$ V

Temperaturni tok: $I_{th}=10$ A

AC 11								
Ue	12	24	48	110	230	400	500	600
Ie	10	10	8,5	6,5	4,5	2,6	2,1	1,6

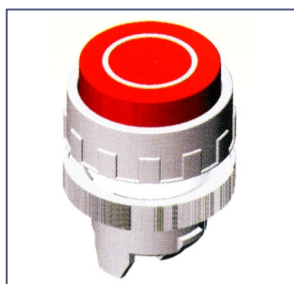
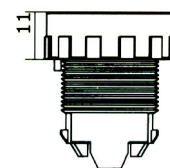
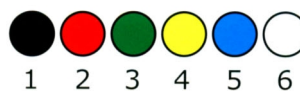
DC 11					
Ue	12	24	48	110	220
Ie	18	5	2,5	1,1	0,6

MONTAŽA

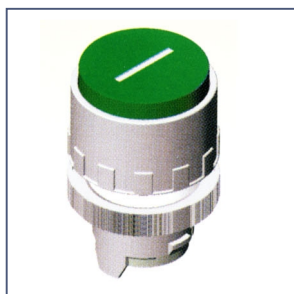
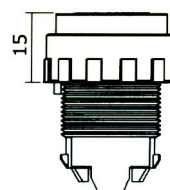
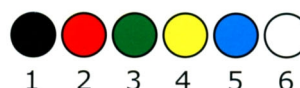




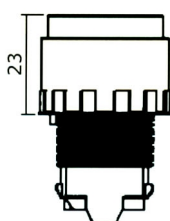
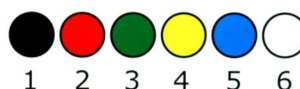
MR
Tipkalo



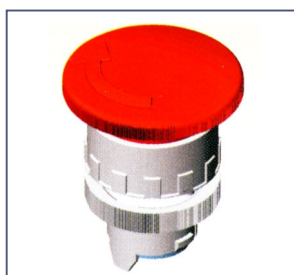
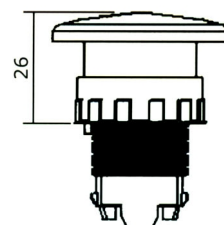
MRR
Tipkalo odignuto



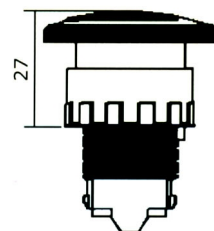
MR/PP
Tipkalo
"pritisni-pritisni"



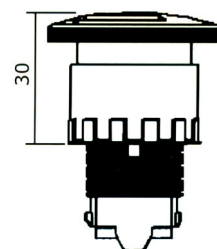
MF
Tipkalo gljivasto
Ø 40 ili Ø 60



MFB
Tipkalo gljivasto
zakretno
Ø 40 ili Ø 60



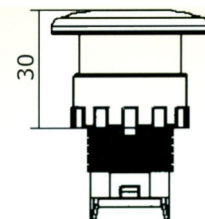
MFBC
Tipkalo gljivasto
zakretno
Ø 40 ili Ø 60
s vremenskim
iskapćanjem





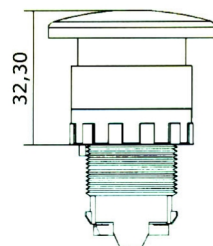
MFC

Tipkalo
gljivasto s
ključem
Ø 40



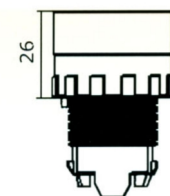
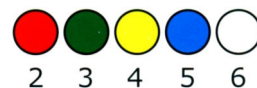
MFB/PP

Tipkalo gljivasto
zakretno
"pritisni-pritisni"
Ø 40



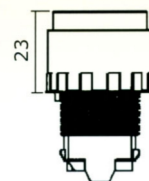
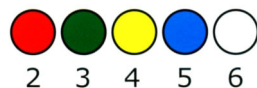
MRL

Svjetleće tipkalo



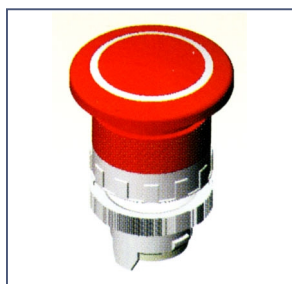
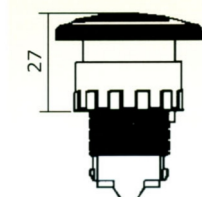
MRL/PP

Svjetleće tipkalo
"pritisni-pritisni"



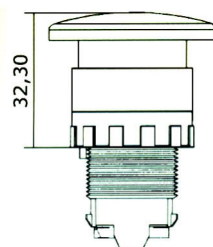
MFBL

Svjetleće tipkalo
zakretno gljivasto
Ø 40



MFBL/PP

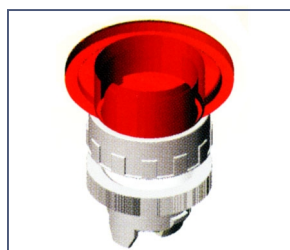
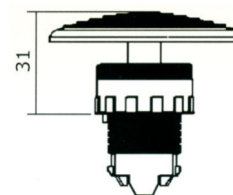
Svjetleće tipkalo
zakretno gljivasto
"pritisni-pritisni"
Ø 40





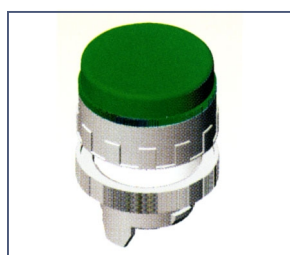
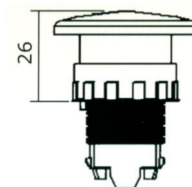
MFBA

Tipkalo gljivasto
pomično Ø 60



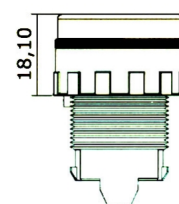
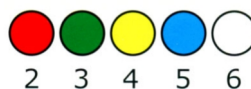
MFL

Tipkalo
gljivasto
svjetleće
Ø 40



ML

Svjetiljka



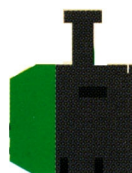
EB

Međuelement



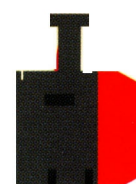
EC/NO

Kontakt
element
NO-radni



EC/NC

Kontakt
element
NC-mirni



ECD

Grlo
za
Ba9S



ECL

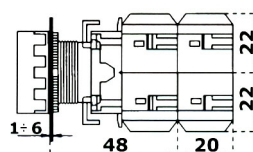
Kontakt s
bljeskalicom

Volti
24 V
230/130 V

ECT

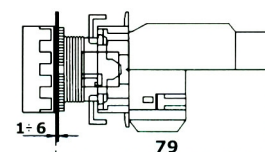
Kontakt s
transformatorom

Volti
110/6 V
230/6 V
400/6 V



S kontaktima: EC-ECD

Mjere



S kontaktima: ECT-ECL



MS
Preklopnik

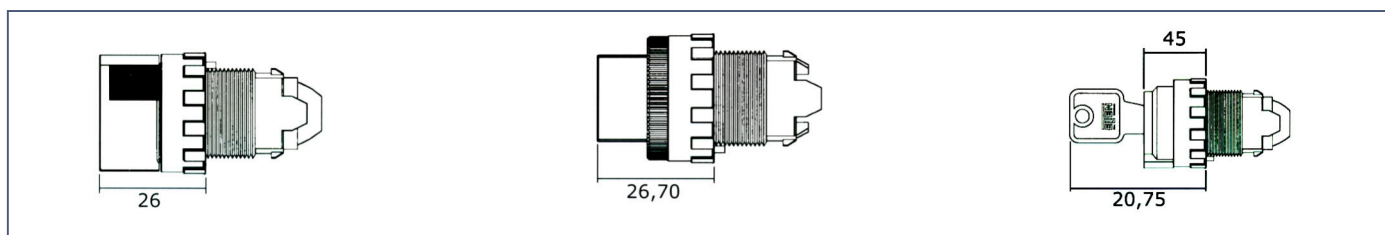


MSL
Svjetleći
Preklopnik



MSC
Preklopnik
s ključem

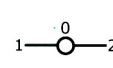
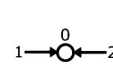
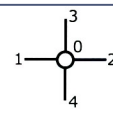
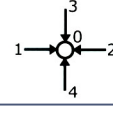
Tip	Položaj	Oznaka za izvlačenje ključa
1 ● 2 ● 3 ●	A  <i>Stalni Lijevo - Desno</i>	U 
2 ● 3 ●	CD  <i>Stalni Sredina - Desno</i>	V 
2 ● 3 ● 4 ●	CD/R  <i>Trenutni Sredina - Desno</i>	W 
5 ● 6 ○	E  <i>Stalni Lijevo - Sredina - Desno</i>	X 
	E/RC  <i>Trenutni Lijevo - Desno</i>	Y 
	E/RD  <i>Stalni Lijevo Trenutni Desno</i>	Z 
	E/RS  <i>Stalni Desno Trenutni Lijevo</i>	J 

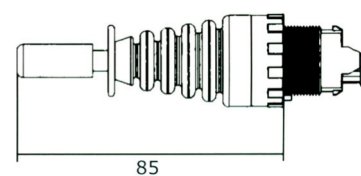
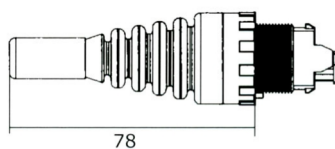


MM
Ručni
preklopnik
2 ili 4
pozicije



MMB
Ručni
preklopnik
s blokadom
2 ili 4
pozicije

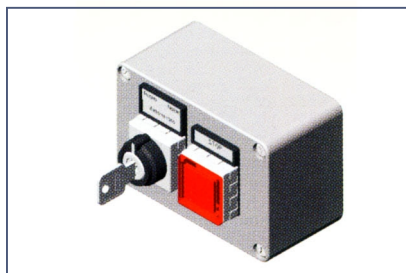
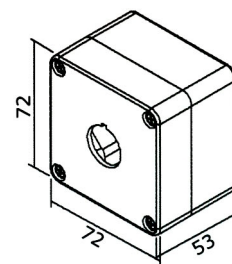
Tip	Položaj
2F	 <i>Dvopoložajni stalni</i>
2R	 <i>Dvopoložajni trenutni</i>
4F	 <i>Četveropoložajni stalni</i>
4R	 <i>Četveropoložajni trenutni</i>





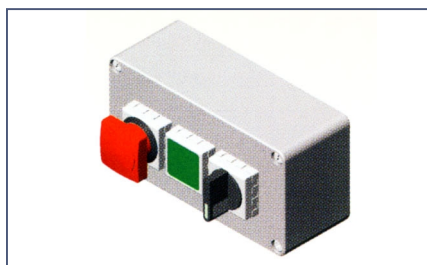
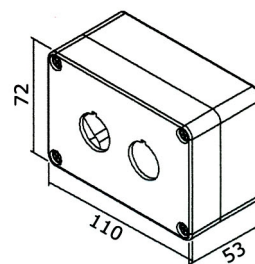
EVK-1

Kućište s jednim provrtom



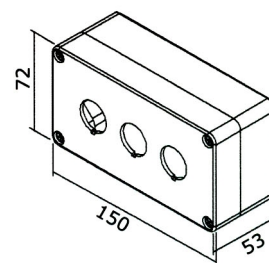
EVK-2

Kućište s dva provrta



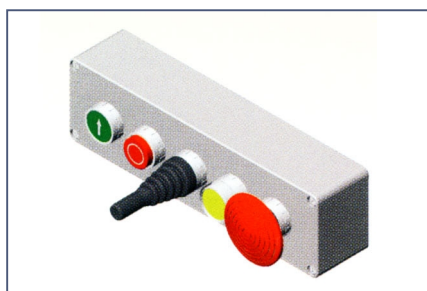
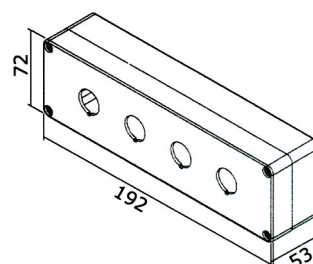
EVK-3

Kućište s tri provrta



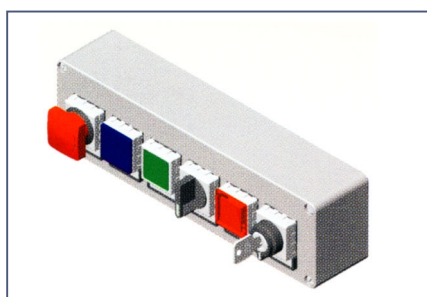
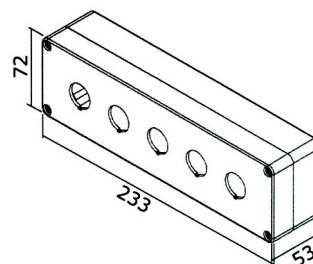
EVK-4

Kućište s četiri provrta



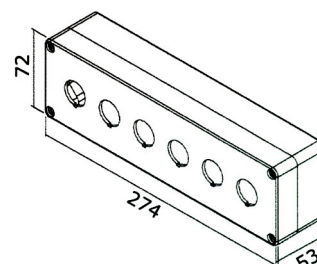
EVK-5

Kućište s pet provrta



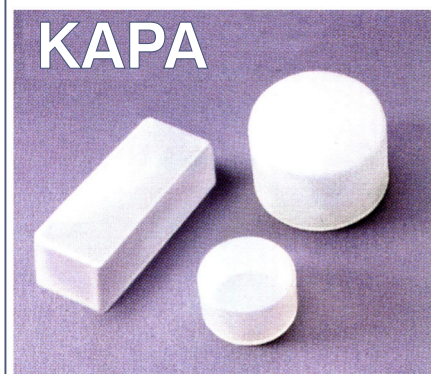
EVK-6

Kućište sa šest provrta



ZAŠTITNA

KAPA



Tip	Za
ERPR	Tipkalo
ERPL	Svjetleće tipkalo
ERPF	Tipkalo gljivasto Ø 40
ERPD	Duplo tipkalo
ERPDR	Duplo tipkalo odignuto

PLOČICA



Tip	Veličina	Materijal	Oznaka
EQ8	30x40	PVC	Neutral
EQ15	30x50	PVC	Neutral
EQ16	30x40	Metal	Neutral
EQ21	30x45	Metal	Neutral
ED40	Ø 40	PVC	Stop
ED60	Ø 60	PVC	Stop
ED90	Ø 90	PVC	Stop

Oznake



RESET TIPKA

M reset



min 25 - max 125 mm.

SIGNALNO KONTAKTNI ELEMENTI METALNI KVADRATNI Ø 22**OPĆENITO**

Serijska obuhvaća: tipkala, preklopnike, svjetleća tipkala, svjetiljke, ručne preklopnike - namijenjene upravljanju i kontroli istosmjernih i izmjeničnih strujnih krugova.

STUPANJ ZAŠTITE

IP 65 (IEC 529, CEI 70-1)

TEMPERATURA

Radna temperatura -20° C do +55° C

Skladištenje: -40° C do 70° C

MEHANIČKE KARAKTERISTIKE

Trajnost tipkala: 30×10^6 pritisaka

Trajnost svjetlećeg tipkala i preklopnika: 10^6 pritisaka

Trajnost zakretnog tipkala: 500.000 pritisaka

KONTAKTNI ELEMENT

Učvršćivanje žice: vijkom

Maksimalna debljina žice: 2,5 mm

Stupanj zaštite: IP 20

ELEKTRIČNE KARAKTERISTIKE**KONTAKTNOG ELEMENTA**

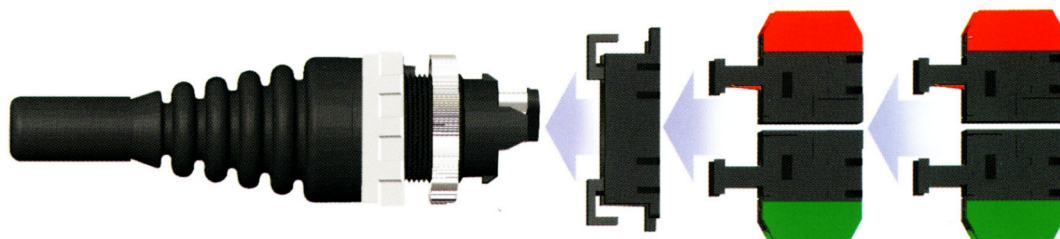
Izolacija: $U_i=600$ V

Temperaturni tok: $I_{th}=10$ A

AC 11								
Ue	12	24	48	110	230	400	500	600
Ie	10	10	8,5	6,5	4,5	2,6	2,1	1,6

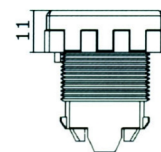
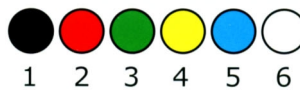
DC 11					
Ue	12	24	48	110	220
Ie	18	5	2,5	1,1	0,6

MONTAŽA

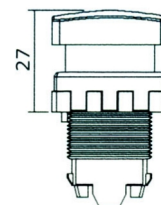
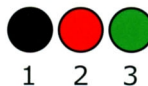




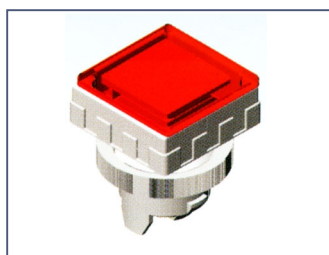
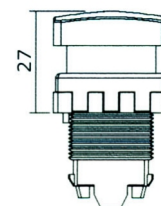
QR
Tipkalo



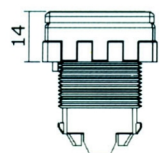
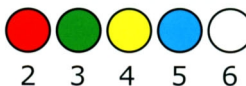
QF
Tipkalo
gljivasto
30x30



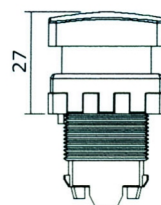
QFB
Tipkalo
gljivasto
zakretno
30x30



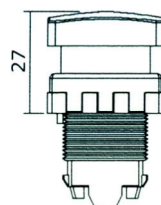
QRL
Svjetleće
tipkalo



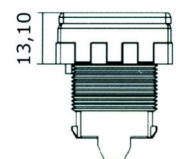
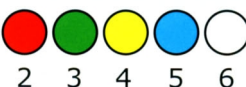
QFL
Svjetleće
gljivasto
tipkalo
30x30



QFBL
Svjetleće gljivasto
tipkalo zakretno
30x30



QL
Svjetiljka





QS
Preklopnik

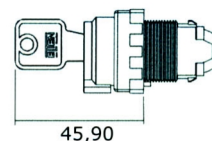
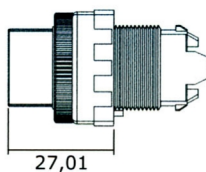
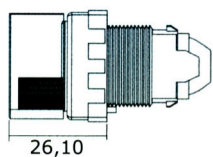


QSL
Svjetleći
Preklopnik



QSC
Preklopnik
s ključem

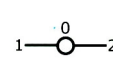
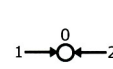
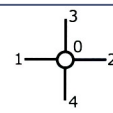
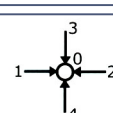
Tip	Položaj	Oznaka za izvlačenje ključa
1 ● 2 ● 3 ●	A  <i>Stalni</i> <i>Lijevo - Desno</i>	U 
2 ● 3 ●	CD  <i>Stalni</i> <i>Sredina - Desno</i>	V 
2 ● 3 ● 4 ●	CD/R  <i>Trenutni</i> <i>Sredina - Desno</i>	W 
5 ● 6 ○	E  <i>Stalni</i> <i>Lijevo - Sredina - Desno</i>	X 
	E/RC  <i>Trenutni</i> <i>Lijevo - Desno</i>	Y 
	E/RD  <i>Stalni Lijevo</i> <i>Trenutni Desno</i>	Z 
	E/RS  <i>Stalni Desno</i> <i>Trenutni Lijevo</i>	J 

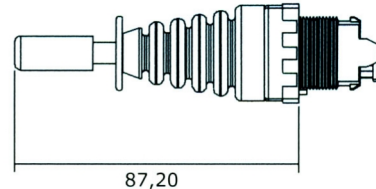
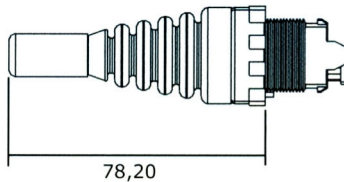


QM
Ručni
preklopnik
2 ili 4
pozicije



QMB
Ručni
preklopnik
s blokadom
2 ili 4
pozicije

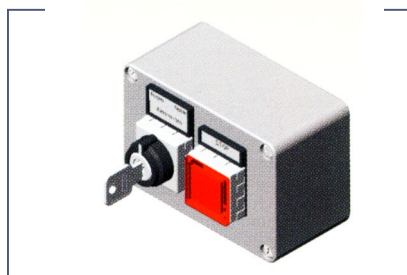
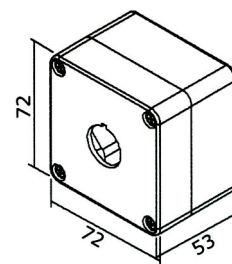
Tip	Položaj
2F	 <i>Dvopoložajni stalni</i>
2R	 <i>Dvopoložajni trenutni</i>
4F	 <i>Četveropoložajni stalni</i>
4R	 <i>Četveropoložajni trenutni</i>





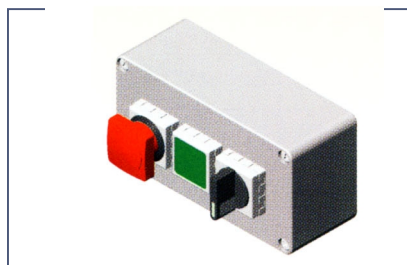
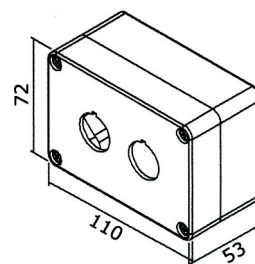
EVK-1

Kućište s jednim provrtom



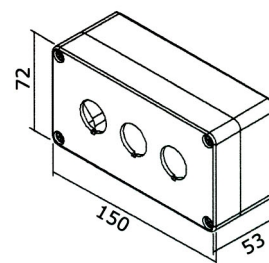
EVK-2

Kućište s dva provrta



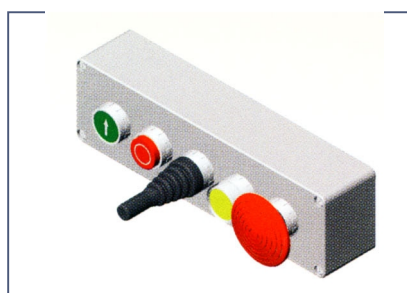
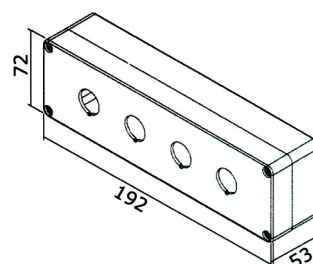
EVK-3

Kućište s tri provrta



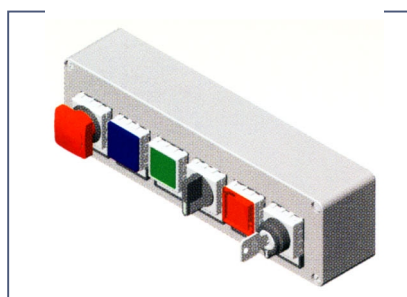
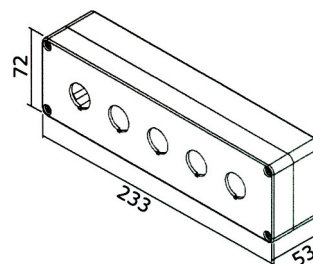
EVK-4

Kućište s četiri provrta



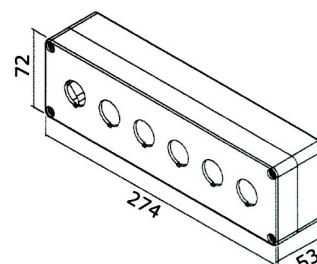
EVK-5

Kućište s pet provrta



EVK-6

Kućište sa šest provrta



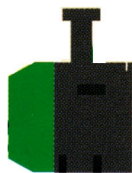
EB

Međuelement



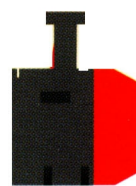
EC/NO

Kontakt
element
NO-radni



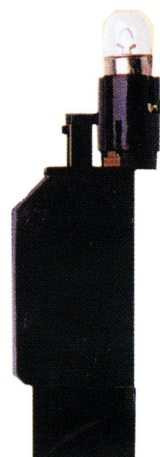
EC/NC

Kontakt
element
NC-mirni



ECD

Grlo
za
Ba9S



ECL

Kontakt s
bljeskalicom

Volti

24 V

230/130 V

ECT

Kontakt s
transformatorom

Volti

110/6 V

230/6 V

400/6 V

Mjere

S kontaktima: EC-ECD

S kontaktima: ECT-ECL

PLOČICA



Tip Veličina Materijal Oznaka

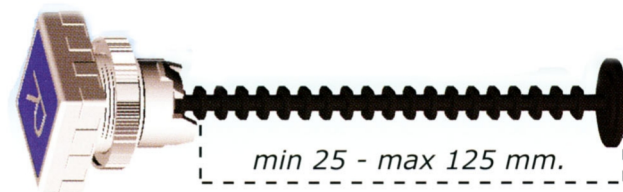
EQ8 30x40 PVC Neutral

EQ15 30x50 PVC Neutral

EQ16 30x40 Metal Neutral

SKT
ZAGREB

Oznake



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