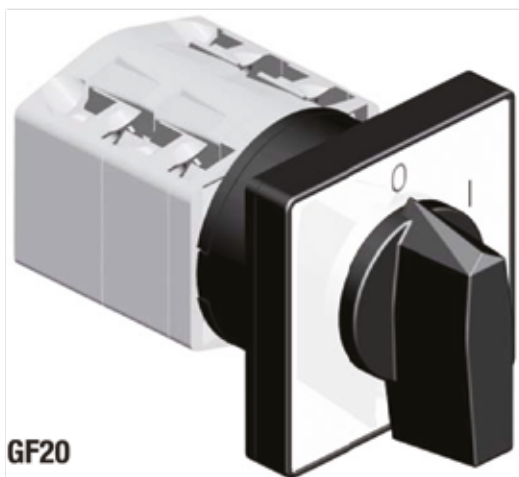


# ROTARY CAM SWITCHES GF SERIES



 **Lovato**  
**KONČAR**



**GF20**



**GF10**

GREBENASTE SKLOPKE serije GF pripadaju seriji grebenastih sklopki zaštićenih od slučajnog dodira (svi priključci i kratkospojnice) - DIN/EN 61140. Konstruirane su prema suvremenim principima i dostignućima na području sklopnih aparata uz upotrebu najkvalitetnijih izolacijskih i kontaktnih materijala. Odlikuju se visokim sklopnim moćima, električnom i mehaničkom trajnošću, kao i malim dimenzijama.

Svoju primjenu nalaze u glavnim i pomoćnim strujnim krugovima kao na primjer: motorska sklopka (sklapanje, upravljanje i pokretanje teretna sklopka (za sklapanje neinduktivnih ili slabo induktivnih tereta) u kategoriji upotrebe AC1 odnosno AC21, te sklopka za upravljačke i mjerne strujne krugove u kategoriji upotrebe AC15.

Sklopke mogu imati najviše 12 upravljačkih položaja, a mogu se izvesti s kutom zakreta od 30°, 45°, 60° i 90°.

Kod sklopki gdje se traži prednji sklop veći od standardnog, sklopke imaju oznaku H (npr. GF20H).

Sklopke GF10 i GF20 mogu se izraditi s pozlaćenim kontaktima.

Grebenaste sklopke serije GF udovoljavaju mnogim internacionalnim i nacionalnim propisima kao što su: **IEC 60947, IEC 60204, DIN EN 61058, UL 508, C22.2 No. 14** itd.

*ROTARY CAM SWITCHES series GF is the series of rotary cam switches protected from inadvertent touch (all connections and possible short circuiting devices) - DIN/EN 61140. They have been designed on modern principles taking into consideration the latest achievements in the field of switching devices and using the best insulation and contact materials. They are distinguished for their high breaking capacity, electrical and mechanical durability and small dimensions.*

*They are used in main and auxiliary circuits such as: motor switch (switching, control and starting of three-phase and single-phase motors) in the utilization categories AC3 and AC23; load break switch (for switching of non-inductive or slightly inductive loads) in the utilization category AC1 or AC21 and cam switch for control and measuring circuits in the utilization category AC15.*

*Rotary cam switches can have maximum 12 control positions, with turning angles of 30°, 45°, 60° and 90°.*

*At the switches where is front part bigger then standard size required, the switches are marked with H (e.g. GF20H).*

*GF10 and GF20 can be supplied with gold-plated contacts.*

*Rotary cam switches series GF comply with many international and national standards such as: **IEC 60947, IEC 60204, DIN EN 61058, UL 508, C22.2 No. 14** and many others.*

TIP TYPE	Max. broj elem. Max number of elements	Oblik ugradnje Mount. form	Ugrad. veličina Mounting size	I <sub>th</sub> , U <sub>i</sub> -
GF10	8	Ugradna/Front mount. - U	A00 (□30 mm)	10A, 480V
GF20	12	Ugradna/Front mount. - U Odvajena/Rear mount. - O	A0 (□48 mm)	20A, 480V
GF10H	8	Ugradna/Front mount. - U	A0 (□48 mm)	10A, 480V
GF20H	12	Ugradna/Front mount. - U Odvajena/Rear mount. - O	A1 (□85 mm)	20A, 480V
GF20R	5	Ugradna/Front mount. - U	A00 (□30 mm)	20A, 480V



**H** - veći prednji sklop od standardnog / bigger front part then standard

**R** - manji prednji sklop za GF20 (A00) / smaller front part for GF20 (A00)

TIP SKLOPKE SWITCH TYPE		GF10 GF10H	GF20 GF20H GF20R
Nazivni izolacijski napon Rated insulation voltage	U <sub>i</sub>	V	480
Nazivni udarni podnosivi napon Rated impulse withstand voltage	U <sub>imp</sub>	kV	4
Nazivna termička struja Rated thermal current	I <sub>th</sub>	A	10
Glavna sklopka / Main switch			
- najveća vrijednost nazivnog pogon. napona - max. value of rated operational voltage		V	400
Nazivna kratkotrajna podn. struja Rated short-time withstand current	I <sub>cw</sub> 1sec	A	250
Nazivna pogonska struja Rated operational current	I <sub>e</sub>	AC1/AC21A	A
		AC15	A
		220/230V 380-440V	A
			A
Motorska sklopka za kateg. upotrebe: Motor switch in utilization category:	3 phase AC3	220/230V 380-440V	kW
			kW
	3 phase AC23	220/230V 380-440V	kW
			kW
Max. veličina osigurača za zaštitu od kratkog spoja Max. fuse size for short circuit protection	I <sub>n</sub> (gG/gL)	3kA	A
		5kA	A
		10kA	A
		25kA	A
Presjek vodiča Conductor size	max. r/f	2 x mm <sup>2</sup> AWG	1,5/1,5
			14/14
			2,5/2,5
	r = jednožilni / rigid f = višežilni / flexible	min. r/f	2 x mm <sup>2</sup> AWG
			0,5/0,5
			20/20

POSEBNE IZVEDBE *OPTIONAL EXTRAS*






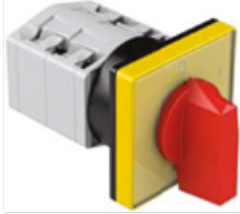

 KOD *CODE*

		1	2	3	4	
STANDARDNE SKLOPKE / STANDARD SWITCHES	UGRADNA SKLOPKA  FRONT MOUNTING  	Prednji sklop □30 / <i>Front assembly □30</i> Prednji sklop □48 / <i>Front assembly □48</i> Prednji sklop □30 s natpisom / <i>Front assembly □30 with title</i> Prednji sklop □48 s natpisom / <i>Front assembly □48 with title</i> Prednji sklop □48 / <i>Front assembly □48</i> Prednji sklop □65 / <i>Front assembly □65</i>  Blokada lijevog smjera okretanja / <i>Interlocking of anticlockwise rotation</i> Zaštita IP65 / <i>Front protection IP65</i> Zaštita IP65 / <i>Front protection IP65</i>	GF10 - ... - U GF20 - ... - U GF10 - ... - U GF20 - ... - U GF10H - ... - U GF20H - ... - U GF20 - ... - U GF10 - ... - U GF20 - ... - U	- - - - - - - -	U U U U U U U U U	N N  28 51 51
	SKLOPKA ZA ODVOJENU UGRADNJU  REAR MOUNTING  	Prednji sklop □48 / <i>Front assembly □48</i> Prednji sklop □48 s natpisom / <i>Front assembly □48 with title</i> Prednji sklop □65 / <i>Front assembly □65</i> Prednji sklop □65 s natpisom / <i>Front assembly □65 with title</i>  Blokada lijevog smjera okretanja / <i>Interlocking of anticlockwise rotation</i> Zaštita IP65 / <i>Front protection IP65</i>	GF20 - ... - 0 GF20 - ... - 0 GF20H - ... - 0 GF20H - ... - 0 GF20 - ... - 0 GF20 - ... - 0	- - - - - -	0 0 0 0 0 0	N N  28 51
SKLOPKA SA ZAKLJUČAVANJEM LOKOTOM  SWITCH WITH PADLOCK		Ručica i prednja ploča sive boje <i>The grey colour of handle and front plate</i>  <b>Glavna sklopka</b> - crna ručica i prednja ploča <b>Main switch</b> - black handle and front plate  <b>Glavna sklopka ujedno i sklopka za nužno isklapanje</b> crvena ručica, žuta prednja ploča <b>Main switch with emergency</b> - red handle, yellow front plate	GF10H - ... - U GF20 - ... - U/O GF20H - ... - U/O GF10H - ... - U GF20 - ... - U/O GF20H - ... - U/O GF10H - ... - U GF20 - ... - U/O GF20H - ... - U/O	- - - - - - - -	U U/O U/O U U/O U/O U U/O U/O	06 06 06 23 23 23 25 25 25
		Ručica i prednja ploča iste boje <i>The same colour of handle and front plate</i>  <b>Glavna sklopka</b> - crna ručica i prednja ploča <b>Main switch</b> - black handle and front plate  <b>Glavna sklopka ujedno i sklopka za nužno isklapanje</b> crvena ručica, žuta prednja ploča <b>Main switch with emergency</b> - red handle, yellow front plate	GF10H - ... - U GF20 - ... - U/O GF10H - ... - U GF20 - ... - U/O GF10H - ... - U GF20 - ... - U/O	- - - - - -	U U/O U U/O U U/O	56 56 73 73 75 75
SPOJKA ZA VRATA / DOOR COUPLING	SPOJKA ZA VRATA  DOOR COUPLING  	Otvaranje vrata u bilo kojem položaju / <i>Door opening in any position</i> - montaža s 4 vijka (57) / <i>mounting with 4 screws (57)</i> - montaža s 2 vijka (57D) / <i>mounting with 2 screws (57D)</i>  Otvaranje vrata u položaju "0" / <i>Door opening in position "0"</i> - montaža s 4 vijka (58) / <i>mounting with 4 screws (58)</i> - montaža s 2 vijka (58D) / <i>mounting with 2 screws (58D)</i>	GF20 - ... - 0 GF20H - ... - 0 GF20 - ... - 0 GF20H - ... - 0 GF20 - ... - 0 GF20H - ... - 0 GF20 - ... - 0 GF20H - ... - 0 GF20 - ... - 0 GF20H - ... - 0	- - - - - - - - -	0 0 0 0 0 0 0 0 0	57 57 57D 57D 58 58 58D 58D
	SPOJKA ZA VRATA-GLAVNA SKLOPKA I SKLOPKA ZA NUŽNO ISKLAPANJE  DOOR COUPLING-MAIN SWITCH WITH EMERGENCY OFF  	Zaključavanje (1-3) lokota samo u "0" - otvaranje vrata u položaju "0" <i>Padlocking (1-3) only in "0" - door opening in position "0"</i>	GF20 - ... - 0 GF20H - ... - 0	- -	0 0	98 98
	SPOJKA ZA VRATA-ZAKLJUČAVANJE LOKOTOM  DOOR COUPLING-SWITCH WITH PADLOCK  	Zaključavanje (1-3) lokota samo u "0" - otvaranje vrata u polož. "0" <i>Padlocking (1-3) only in "0" - door opening in position "0"</i> Ručica i prednja ploča iste boje <i>The same colour of handle and front plate</i>  <b>Glavna sklopka ujedno i sklopka za nužno isklapanje</b> crvena ručica, žuta prednja ploča <b>Main switch with emergency</b> - red handle, yellow front plate	GF20 - ... - 0 GF20 - ... - 0	- -	0 0	85 86





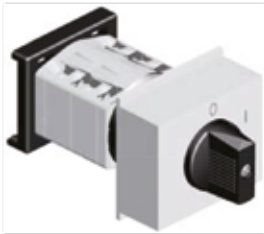




POSEBNE IZVEDBE *OPTIONAL EXTRAS*

KOD *CODE*

		1	2	3	4				
<b>SKLOPKE SA ZAKLJUČAVANJEM</b>  <b>SWITCHES WITH LOCKING</b>		Standardno zaključavanje u "0" - moguće i u drugim položajima (potrebno definirati). Vađenje ključa samo u zaključanom položaju.  <i>In standard manner locking is in "0" - possible in other positions, too (please define).            The key can be pulled out only in locked position.</i>		GF20H	-	...	-	U	05
	<b>BLOKIRANJE POLOŽAJA-DVORUČNO UPRAVLJANJE</b>  <b>BLOCKADE OF POSITIONS-TWO HANDS OPERATING</b>		Zaštita od nehotičnog uklapanja, blokada moguća u svim položajima (potrebno definirati) <i>Protection against an accidental switching-on, blockade is possible in any position (please define)</i>		GF20H	-	...	-	U
		<ul style="list-style-type: none"> <li>• bez zaključavanja i pom. kontakata (16) / <i>without locking and aux. contacts (16)</i></li> <li>• zaključavanje jednim lokotom (26) / <i>locking by one padlock (26)</i></li> <li>• jedan par pom. kontakata 1NO+1NC (17) / <i>one pair of aux. contacts 1NO+1NC (17)</i></li> <li>• zaključavanje jednim lokotom i jedan par pom. kontakata 1NO+1NC (27) <i>locking by one padlock and one pair of aux. contacts 1NO+1NC (27)</i></li> </ul>		GF20H	-	...	-	U	26
				GF20H	-	...	-	U	17
				GF20H	-	...	-	U	27
<b>SKLOPKA S PRODUŽENOM OSOVINOM</b>  <b>SWITCH WITH EXTENDED SHAFT</b>		Standardna izvedba podrazumijeva produženje 100 mm. Specijalnom narudžbom potrebno je definirati dubinu ormara.  <i>Standard version includes the extension for 100 mm.            Otherwise is necessary to define board depth.</i>		GF20	-	...	-	0	02
	<b>PRODUŽENJE OSOVINE I SPOJKA ZA VRATA</b>  <b>EXTENSION SHAFT AND DOOR COUPLING</b>		Otvaranje vrata u položaju "0" / <i>Door opening in position "0"</i>		GF20	-	...	-	0
		<ul style="list-style-type: none"> <li>• osovina 100 mm (102) / <i>shaft 100 mm (102)</i></li> <li>• osovina 200 mm (102-200) / <i>shaft 200 mm (102-200)</i></li> </ul>		GF20H	-	...	-	0	102
<b>PRODUŽENJE OSOVINE I SPOJKA ZA VRATA</b>  <b>EXTENSION SHAFT AND DOOR COUPLING</b>		Otvaranje vrata u položaju "0", standardno s jednim modulom <i>Door opening in position "0", standard version with one module</i>		GF20	-	...	-	U	108D
			<ul style="list-style-type: none"> <li>• dva modula (108D-2) / <i>two modules (108D-2)</i></li> <li>• tri modula (108D-3) / <i>three modules (108D-3)</i></li> <li>• četiri modula (108D-4) / <i>four modules (108D-4)</i></li> </ul>		GF20H	-	...	-	U
<b>SKLOPKA ZA NUŽNO ISKLAPANJE</b>  <b>EMERGENCY OFF SWITCH</b>		Sklopka sa žutom prednjom pločom, žutom podlogom i crvenom ručicom  <i>Switch with yellow front plate, yellow escutcheon plate and red handle</i>		GF10	-	...	-	U	24
					GF10H	-	...	-	U
				GF20	-	...	-	U/0	24
				GF20H	-	...	-	U/0	24
<b>SMANJENJE PREDNJEG SKLOPA</b>  <b>SMALLER FRONT PART</b>		Prednji sklop veličine □30 / <i>Front part size □30</i>		GF20R	-	...	-	U	
		Prednji sklop veličine □30 s natpisom / <i>Front part size □30 with title</i>		GF20R	-	...	-	U	N
		Zaštita IP65 / <i>Front protection IP65</i>		GF20R	-	...	-	U	51








POSEBNE IZVEDBE *OPTIONAL EXTRAS*

KOD *CODE*

			1	2	3	4			
<b>MONTAŽA NA ŠINU</b>  <b>MOUNTING ON THE RAIL</b>		Montaža na šinu 35 EN 50022 <i>Mounting on the rail 35 EN 50022</i>	GF20	-	...	-	U/O	18	
		GF20H	-	...	-	U/O	18		
<b>SIGNALNE SVJETILJKE</b>  <b>SIGNAL LAMPS</b>		Standardno ugrađena crvena svjetiljka (230V) dolje desno. Mogući naponi 110V, 400V kao i zelena boja svjetiljke (potrebno definirati). <i>In a standard manner, the red lamp (230V) is built in the right bottom corner. Possible voltages are 110V, 400V and green lamp, too (please define).</i>	GF10H	-	...	-	U	15	
		GF20	-	...	-	U/O	15		
		GF20H	-	...	-	U/O	15		
<b>INSTALACIONA KAPA</b>  <b>SERVICE COVER</b>		Montaža na šinu 35 EN 50022 s visinskim podešavanjem instalacione kape (45 mm) i ručice za 7 mm <i>Snap on base mounting for the rail 35 EN 50022. Both the service cover (45 mm) and handle are adjustable in height (7 mm).</i>	GF20	-	...	-	0	48	
		Fiksna ugradbena dužina (48D) <i>Fixed measure (48D)</i>	GF20	-	...	-	0	48D	
<b>INSTALACIONA KAPA</b>  <b>SERVICE COVER</b>		Montaža na šinu 35 EN 50022 s visinskim podešavanjem instalacione kape (45 mm) i bravice za 7 mm <i>Snap on base mounting for the rail 35 EN 50022. Both the service cover (45 mm) and key are adjustable in height (7 mm).</i>	GF20	-	...	-	0	49	
<b>CENTRALNA MONTAŽA</b> <i>CENTRAL MOUNTING</i>	<b>SKLOPKA S RUČICOM I MATICOM</b>  <b>ROTARY CAM SWITCH WITH HANDLE AND NUT</b>		Montaža u Ø30 mm / <i>Mounting in Ø30 mm</i>	GF20	-	...	-	U	09
			Montaža u Ø22 mm / <i>Mounting in Ø22 mm</i>	GF20	-	...	-	U	11
	<b>SKLOPKA S KLJUČEM I MATICOM</b>  <b>ROTARY CAM SWITCH WITH KEY AND NUT</b>		Montaža u Ø30 mm / <i>Mounting in Ø30 mm</i>	GF20	-	...	-	U	10
			Montaža u Ø22 mm / <i>Mounting in Ø22 mm</i>	GF20	-	...	-	U	12
	<b>SKLOPKA S RUČICOM I PREDNJOM PLOČOM □48</b>  <b>ROTARY CAM SWITCH WITH HANDLE AND FRONT PLATE □48</b>		Montaža u Ø22 odnosno Ø30 mm. Montaža s dva vijka. <i>Mounting into Ø22 or Ø30 mm with two screws</i>	GF20	-	...	-	U	20

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

KOD *CODE*

		1	2	3	4			
CENTRALNA MONTAŽA <i>CENTRAL MOUNTING</i>	<p>SKLOPKA SA ZAKLJUČAVANJEM</p> <p><i>ROTARY CAM SWITCH WITH LOCKING</i></p> 	<p>Utična montaža kontaktnog bloka i prednjeg sklopa <i>Snap-on mounting of contact block with front part</i></p> <p>Brza montaža u Ø22 mm, sklopka s prednjom pločom, ručica za zaključavanje / <i>Quick mounting into Ø22 mm, switch with front plate, lockable handle</i></p> <p>Brza montaža u Ø22 mm, ručica za zaključavanje, sklopka bez prednje ploče / <i>Quick mounting into Ø22 mm, lockable handle, switch without front plate</i></p>	GF20	-	...	-	U	41D
			GF20	-	...	-	U	41K
	<p>SKLOPKA S RUČICOM I PREDNJOM PLOČOM</p> <p><i>ROTARY CAM SWITCH WITH HANDLE AND FRONT PLATE</i></p> 	<p>Utična montaža kontaktnog bloka i prednjeg sklopa <i>Snap-on mounting of contact block with front part</i></p> <p>Brza montaža u Ø16 mm / <i>Quick mounting in Ø16 mm</i></p> <p>Brza montaža u Ø22 mm / <i>Quick mounting in Ø22 mm</i></p>	GF10	-	...	-	U	46
			GF10	-	...	-	U	47
			GF20	-	...	-	U	47
	<p>SKLOPKA BEZ PREDNJE PLOČE</p> <p><i>ROTARY CAM SWITCH WITHOUT FRONT PLATE</i></p> 	<p>Utična montaža kontaktnog bloka i prednjeg sklopa <i>Snap-on mounting of contact block with front part</i></p> <p>Brza montaža u Ø16 mm / <i>Quick mounting in Ø16 mm</i></p> <p>Brza montaža u Ø22 mm / <i>Quick mounting in Ø22 mm</i></p>	GF10	-	...	-	U	66
		GF10	-	...	-	U	67	
		GF20	-	...	-	U	67	
<p>PUSH AND TURN</p> 	<p>Zaključavanje (1-3 lokota) in "0" / <i>Padlocking (1-3) in "0"</i></p> <p>Brza montaža u Ø22 mm / <i>Quick mounting in Ø22 mm</i></p> <p>Brza montaža u Ø30 mm / <i>Quick mounting in Ø30 mm</i></p>	GF20	-	...	-	U	71	
		GF20	-	...	-	U	72	
NESTANDARDNA MONTAŽA <i>NON-STANDARD MOUNTING</i>	<p>SKLOPKA S KLJUČEM</p> <p><i>ROTARY CAM SWITCH WITH KEY</i></p> 	<p>Utična montaža kontaktnog bloka i prednjeg sklopa <i>Snap-on mounting of contact block with front part</i></p> <p>Brza montaža u Ø22 mm, sklopka s prednjom pločom <i>Quick mounting in Ø22 mm, switch with front plate</i></p> <p>Brza montaža u Ø22 mm, sklopka bez prednje ploče <i>Quick mounting in Ø22 mm, switch without front plate</i></p>	GF20	-	...	-	U	29D
			GF20	-	...	-	U	29K
	<p>Montaža s dva vijka (razmak 28 mm) <i>Mounting with two screws (distance 28 mm)</i></p> <p>Montaža s dva vijka (razmak 30 mm) <i>Mounting with two screws (distance 30 mm)</i></p> 		GF20	-	...	-	U	39D
		GF20H	-	...	-	U	39D	
		GF20	-	...	-	U	39T	
<p>Montaža s 4 umetnute matice M4 <i>Mounting with four inserted nuts M4</i></p> 		GF20	-	...	-	U	31	
		GF20H	-	...	-	U	31	

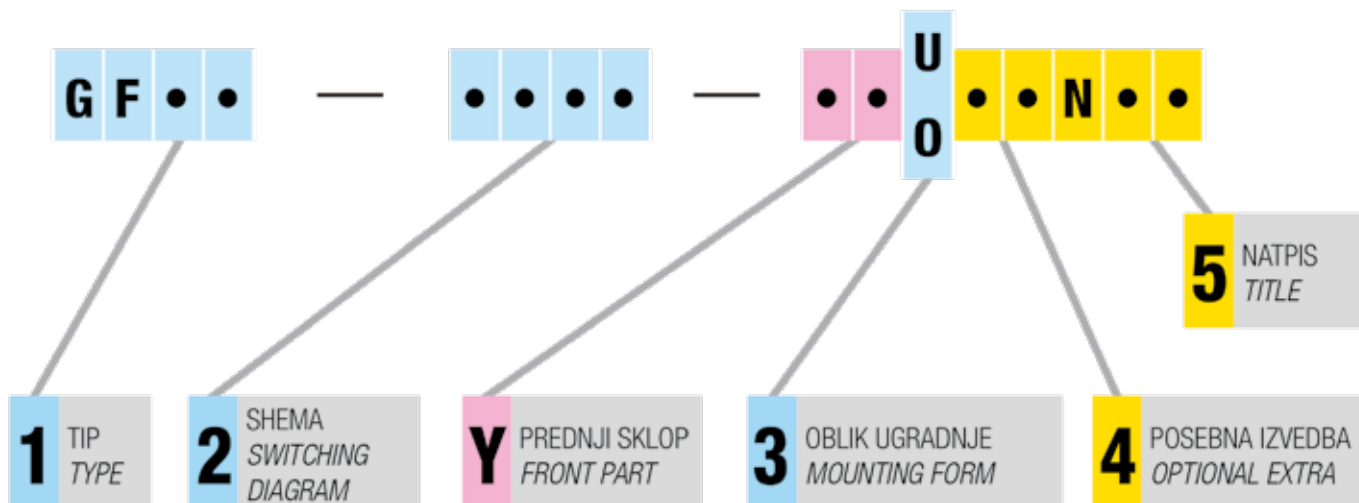
## NARUDŽBENI KOD *ORDERING CODE*

Prilikom naručivanja sklopke potrebno je definirati:

- za **standardnu izvedbu** sklopke 3 tipa podataka **1 2 3**
- za sklopke s **posebnom izvedbom** maksimalno 5 tipova podataka **1 2 3 4 5**
- za sklopku sa **specijalnim zahtjevima** maksimalno 6 tipova podataka **1 2 3 4 5 Y**

When ordering please define:

- for **standard** switch three data types **1 2 3**
- for switch with an **optional extra** max. 5 data types **1 2 3 4 5**
- for switch with **special requests** max. 6 data types **1 2 3 4 5 Y**



### OPIS

### DESCRIPTION

<b>1</b>	Tip sklopke. Odabire se prema tehničkim zahtjevima i ugradnoj veličini (vidi str. 1)	Switch type. To be chosen in accordance with the technical requests and mounting size (see page 1)
<b>2</b>	Shema. Odabire se prema programu sklapanja (vidi katalog shema)	Switching diagram. To be chosen in accordance with the switching programme (see catalogue with scheme).
<b>Y</b>	Prednji sklop. Upisuje se samo ako se traži nestandardna kombinacija boja i oblika prednjeg sklopa. Kod standardne izvedbe (ručica, prednja ploča i slova na bijeloj podlozi su crni).	Front part. To be marked only when non-standard front part colour and form combination is required. For standard form (handle, front plate and text on the white escutcheon plate are black).
<b>3</b>	Standardni oblici ugradnje U, 0 (vidi str. 2)	Standard mounting forms U, 0 (see page 2)
<b>4</b>	Posebna izvedba (vidi str. 2, 3, 4 i 5)	To be marked when an optional extra is required (see pages 2, 3, 4 and 5).
<b>5</b>	"N" se upisuje ako se traži prednja ploča s natpisom. Potrebno je upisati željeni tekst.	"N" is to be written when the front plate with a title is required. Please define required text.

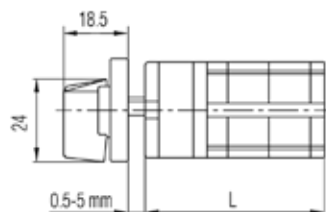


Pridržavamo pravo promjene podataka. Ostale podatke dajemo na upit  
We keep the right to change the data. Other data are given on request.

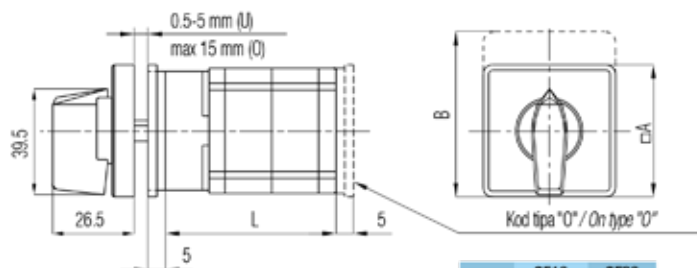


## MJERNE SKICE *DIMENSIONAL DRAWINGS* (mm)

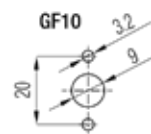
**GF10** Ugradna sklopka  
*Front mounting (U)*



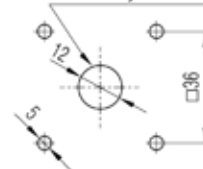
**GF20** Ugradna sklopka / *Front mounting (U)*  
Sklopka za odvojenu ugradnju / *Rear mounting (O)*



	GF10	GF20
□A	30	48
B	40	60

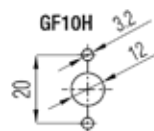
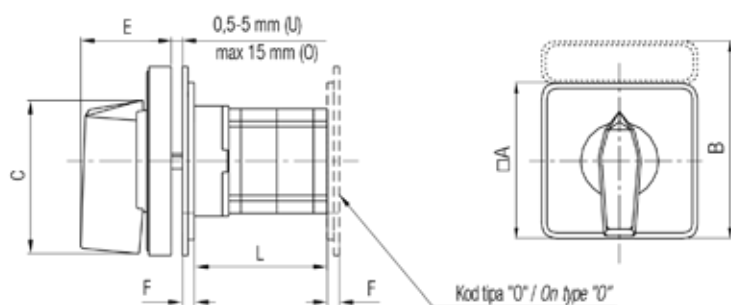


**GF20** Samo na prednjoj ploči  
*Only on the front panel*

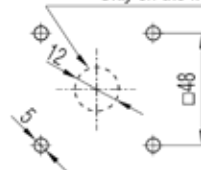


**GF10H** Ugradna sklopka / *Front mounting (U)*

**GF20H** Ugradna sklopka / *Front mounting (U)*  
Sklopka za odvojenu ugradnju / *Rear mounting (O)*

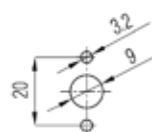
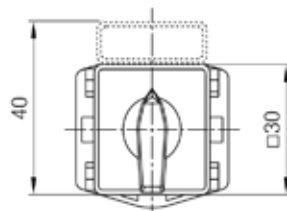
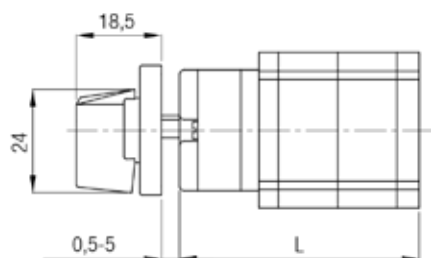


**GF20H** Samo na prednjoj ploči  
*Only on the front panel*

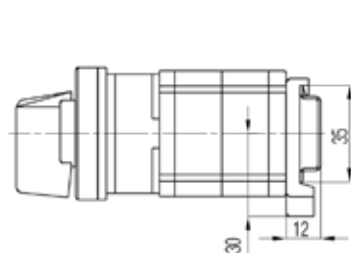


OZNAKA MARKING	TIP SKLOPKE TYPE	
	GF10H	GF20H
□A	48	65
B	60	80
C	39,5	53
E	26,5	34,5
F	-	5,5 5,5
TIP UGRADNJE MOUNTING FORM		
	U	U 0

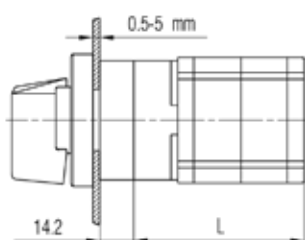
**GF20R** Ugradna sklopka / *Front mounting (U)*



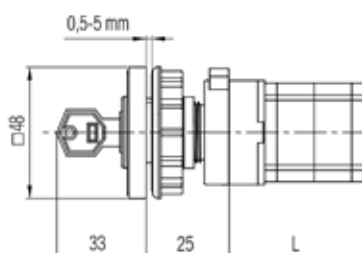
## Posebne izvedbe *Optional extras*



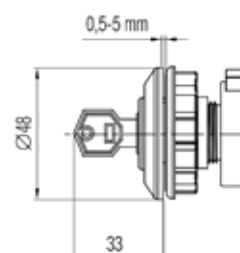
Montaža na šinu - **18**  
*Mounting on the rail - 18*



Centralna ugradnja - **20**  
*Central mounting - 20*



Centralna ugradnja - **29D**  
*Central mounting - 29D*

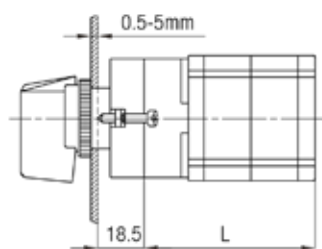


Centralna ugradnja - **29K**  
*Central mounting - 29K*

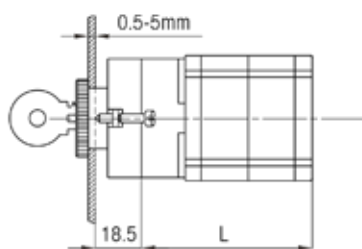


## MJERNE SKICE *DIMENSIONAL DRAWINGS* (mm)

### Posebne izvedbe *Optional extras*



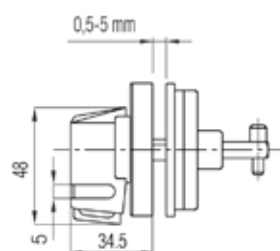
Centralna ugradnja - **09/11**  
Central mounting - **09/11**



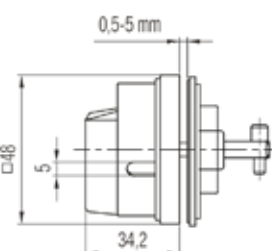
Centralna ugradnja - **10/12**  
Central mounting - **10/12**



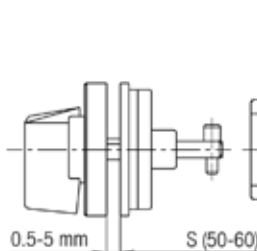
Tip/Type	ØD
09, 10, 20	30.5
11, 12, 20, 29D, 29K	22.5



Spojka za vrata -  
zaključavanje lokotom - **85**  
Door coupling -  
padlock - **85**



Spojka za vrata -  
zaključavanje lokotom - **98**  
Door coupling -  
padlock - **98**



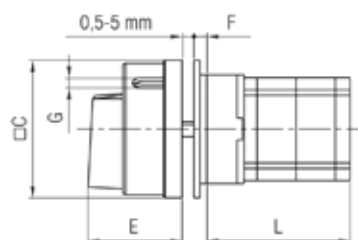
Spojka za vrata - **57/58**  
Door coupling - **57/58**

Ukoliko je traženi "S" veći od standardnog, potrebno je definirati dubinu ormara "S+L+F"  
When required "S" is bigger than offered, it is necessary to define the depth of the board "S+L+F"

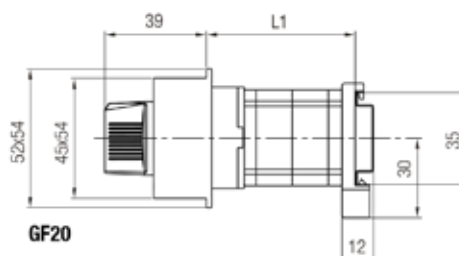


Samo na prednjoj ploči  
Only on the front panel

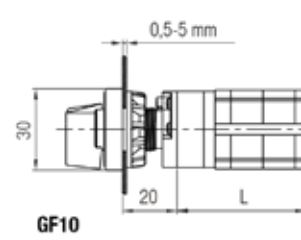
OZNAKA MARKING	GF20	GF20H
□K	36	48
F	5	5,5



Sklopka sa zaključavanjem lokotom - **06/23/25**  
Switch with padlock - **06/23/25**



Instalaciona kapa - **48/48D**  
Service cover - **48/48D**



Centralna montaža - **46/47 i 66/67**  
Central mounting - **46/47 and 66/67**

OZNAKA MARKING	GF10H GF20	GF20H
□C	48	65
E	34,2	38
G	5	6
F	5 (GF20)	5,5

	1 elem.	2 elem.	3 elem.
L1	48	49-56	62-69
	48D	40	53,5
			67

POSEBNA IZVEDBA OPTIONAL EXTRA	ØD
46, 66	16
47, 67	22



Broj elemenata No. of elements	1	2	3	4	5	6	7	8	9	10	11	12
L (mm)	GF10	40	52	64	76	88	100	112	124	-	-	-
	GF20	36	49,5	63	76,5	90	103,5	117	130,5	144	157,5	171
	GF10H	40	52	64	76	88	100	112	124	-	-	-
	GF20H	36	49,5	63	76,5	90	103,5	117	130,5	144	157,5	171
	GF20R	41,5	53,5	67	80,5	94	107,5	-	-	-	-	-

# ■ ROTARY CAM SWITCHES GF SERIES



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