



SWITCH & ENCODER



ELECTRONIC  
ELECTROMECHANICAL  
COMPONENTS  
PARTNER & DEALER

FOLLOW US  
ON SOCIAL MEDIA!



Klemi Contact è una *family company* nata sulle basi delle competenze acquisite in oltre 60 anni di attività professionale del suo fondatore Ugo Clementi come distributore di componentistica elettronica ed elettromeccanica, con particolare rilievo ai sistemi di connessione e cablaggio.

Klemi Contact è alla costante ricerca di **soluzioni innovative** e **tecnologicamente avanzate** con l'obiettivo di offrire solo i migliori prodotti in grado di garantire il rispetto degli elevati livelli qualitativi in aderenza alle norme vigenti.

Klemi Contact è in grado di proporsi come **unico interlocutore** in grado di supportare i propri clienti in ogni fase del loro progetto, grazie ad una strutturata e programmata attività di approvvigionamento, che si concretizza con un'immediata disponibilità di merce a magazzino, derivanti dall'ampia gamma di prodotti offerti.



Klemi Contact is a family company founded on the basis of the skills acquired by its founder Ugo Clementi in over 60 years of activity as a distributor of electronic and electromechanical components, especially in the field of connection and wiring systems.

Klemi Contact is constantly looking for innovative and technologically advanced solutions aimed at offering only the best products that guarantee high-quality standards in compliance with current regulations. Klemi Contact operates as the only interlocutor able to support its customers in every phase of their projects, thanks to a structured and planned supply activity, which results in an immediate availability of the goods in stock, due to the wide range of products offered.



## PROTEGGIAMO L'AMBIENTE

Adottiamo comportamenti responsabili  
che contribuiscono positivamente sia  
alla società di oggi sia a quella di domani

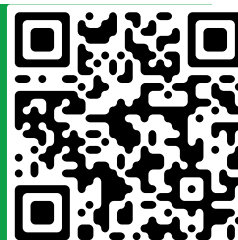
## WE PROTECT THE ENVIRONMENT

We adopt responsible behaviors that  
positively contribute to both today's and  
tomorrow's society



## EXPLORE HOW

<https://www.klemi-contact.com/chi-siamo>



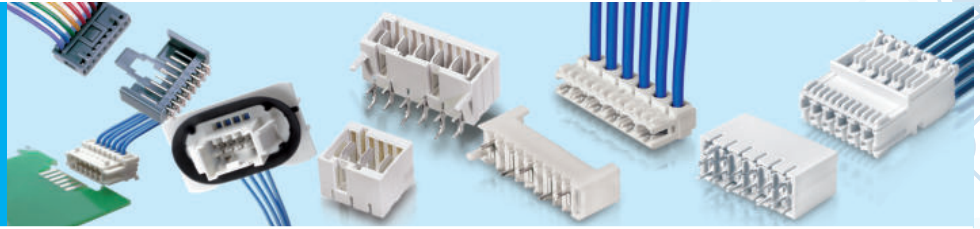
### INFORMATION

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### INFORMAZIONE

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**STOCKO  
CONNECTORS  
CONNETTORI  
STOCKO**



**CONNETTORI  
BOARD TO BOARD  
WIRE TO BOARD  
CONNECTORS**



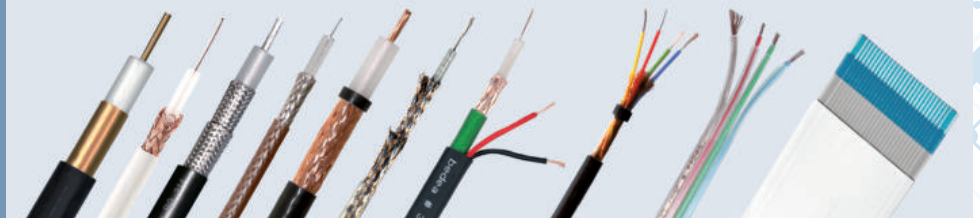
**TERMINALS  
TERMINALI**



**PRE-INSULATED  
PREISOLATI**



**CABLES  
CAVI**



**ACCESSORIES FOR  
WIRING  
ACCESSORI PER  
IL CABLAGGIO**



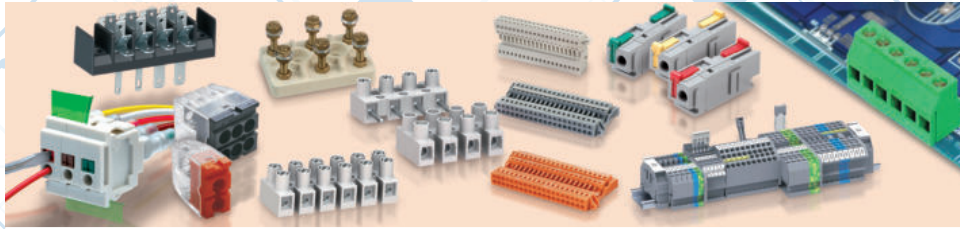
**MACHINES FOR CABLES  
MACCHINE PER  
PROCESSARE IL CAVO**



**REEL-RACK  
RASTRELLIERE**



**può interessarti...**



**TERMINAL BLOCK  
MORSETTI**



**FUSES  
FUSIBILI**



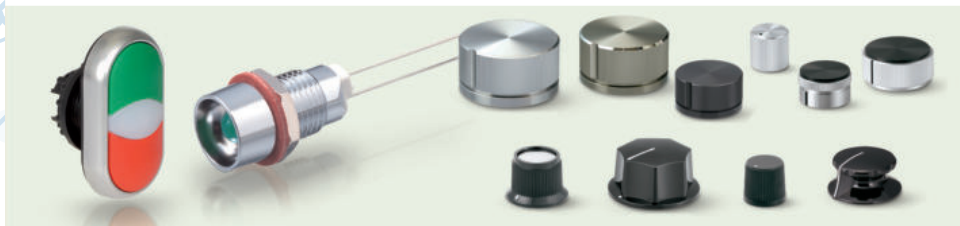
**FUSEHOLDER  
PORTAFUSIBILI**



**SWITCHES  
COMMUTATORI**



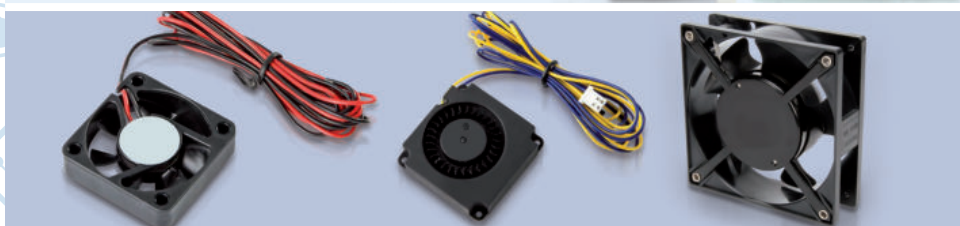
**ENCODER**



**SWITCHES  
PUSH BUTTONS  
KNOBS  
INTERRUTTORI  
PULSANTIERE  
MANOPOLE**



**ELECTRICAL TEST &  
MEASUREMENT PRODUCTS  
PRODOTTI PER  
TEST & MISURAZIONE  
ELETRICA**



**ac/dc FANS  
VENTOLE ac/dc**

## OUR PARTNERS

The selection of reliable partners with whom to create long-term strategic partnerships is a key element for the satisfaction of our customers.

It is a mutual opportunity to share our know-how, in a highly specialized and constantly evolving market in order to offer high quality products, but above all services that can create value and progress.



**Kraus & Naimer is a world leader in the field of cam switches. Founded in 1907 in Vienna in a small basement, today Kraus & Naimer is a multinational company.**

**To date, the key business is characterized by tailor-made solutions. Its global leadership in the field of switchgears is based on uncompromising high-quality products and qualified customer service.**

Kraus & Naimer è leader mondiale nel campo dei commutatori a camme. Fondata nel 1907 a Vienna in una piccola cantina, ora Kraus & Naimer è una società multinazionale. Ad oggi, il cuore dell'attività è caratterizzato da soluzioni su misura. La sua leadership globale nel campo dei quadri elettrici si basa su prodotti di alta qualità senza compromessi ed un'assistenza clienti qualificata.

*Kraus & Naimer ist weltweit führend auf dem Gebiet der Nockenschalter. 1907 in Wien in einem kleinen Weingut gegründet, ist Kraus & Naimer heute ein multinationales Unternehmen. Maßgeschneiderte Lösungen prägen bis heute das Herz des Unternehmens. Seine weltweite Führungsposition im Bereich Schaltschränke basiert auf kompromisslos hochwertigen Produkten und qualifiziertem Kundenservice.*

## I NOSTRI PARTNER

La selezione di partner affidabili con cui creare collaborazioni strategiche di lungo periodo è un elemento chiave per la soddisfazione dei nostri clienti.

È un'opportunità reciproca condividere il nostro know-how, in un mercato altamente specializzato e in continua evoluzione al fine di offrire prodotti di alta qualità, ma soprattutto servizi che possano creare valore e progresso.

**EBE Group, founded in 1950, develops and manufactures sensor systems and drive technologies, combining capacitive and inductive sensors with electromagnetic or electromotive drives. It operates in the field of Human-Machine interfaces, including high quality switches and encoders for industrial use also made to measure according to customer specifications.**

EBE Group, fondata nel 1950, sviluppa e produce sistemi a sensori e tecnologie di azionamento, combinando sensori capacitivi e induttivi con azionamenti elettromagnetici o elettromotive. Si occupa di interfacce uomo-macchina, tra cui interruttori e encoder di alta qualità per uso industriale sviluppati anche su misura secondo le specifiche dei clienti.

*Die 1950 gegründete EBE Group entwickelt und fertigt Sensorsysteme und Antriebstechnologien, die kapazitive und induktive Sensoren mit elektromagnetischen oder elektromotorischen Antrieben kombinieren. Es ist im Bereich Mensch-Maschine-Schnittstellen tätig, darunter hochwertige Schalter und Encoder für den industriellen Einsatz, die auch nach Kundenspezifikation maßgefertigt werden.*



**EBE**  
sensors + motion

# What do you need? Di cosa hai bisogno?

ROTARY ENCODER  
ENCODER

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# ROTARY ENCODER ENCODER

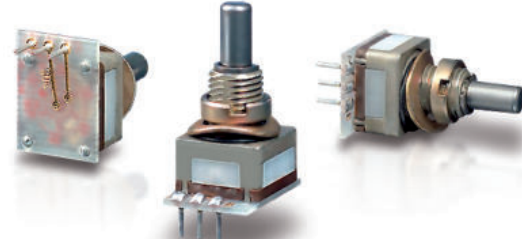
## BG10



**Rotary pulse panel generator Vertical / horizontal PCB**  
Encoder incrementale compatto da pannello; PCB verticale/orizzontale  
*Drehimpulsgenerator Vertikale / horizontale Leiterplatte*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	18°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	20
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	25 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Mechanical</b> Elettromeccanico <i>Elektromechanisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 selected outputs</b> 2 segnali sfasati <i>2 ausgewählte ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		-	-

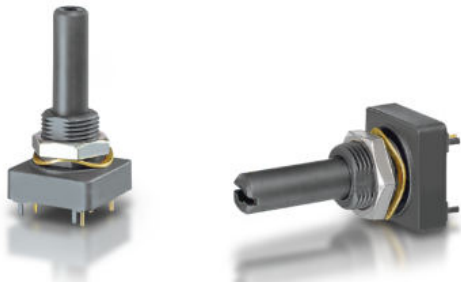
## BG12



**Rotary pulse panel generator Vertical / horizontal PCB**  
Encoder incrementale compatto da pannello; PCB verticale/orizzontale  
*Drehimpulsgenerator Vertikale / horizontale Leiterplatte*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	6 - 60°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	6
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	15 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Mechanical</b> Elettromeccanico <i>Elektromechanisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 selected outputs</b> 2 segnali sfasati <i>2 ausgewählte ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		-	-

## BG16



**Incremental panel encoder; Economic solution; Gold contacts**  
Encoder incrementale da pannello; Soluzione economica; Contatti dorati  
*Inkrementeller Panel-Encoder; Wirtschaftliche Lösung; Goldkontakte*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	1 11° 15'	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	32
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	25 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Mechanical</b> Elettromeccanico <i>Elektromechanisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 selected outputs</b> 2 segnali sfasati <i>2 ausgewählte ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		-	-

## BG17



**Incremental panel encoder; Watertight on the panel**  
Encoder incrementale da pannello; Tenuta stagna sul pannello  
*Inkrementeller Panel-Encoder; Wasserdicht auf der Platte*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	2 - 22° 30'	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	16
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	15 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Mechanical</b> Elettromeccanico <i>Elektromechanisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 selected outputs</b> 2 segnali sfasati <i>2 ausgewählte ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		-	-

## BGE16



**Incremental / absolute panel encoder**  
Encoder incrementale/assoluto da pannello  
*Inkremental- / Absolut-Panel-Encoder*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	11	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	32
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>	<b>2 AB track signals or dest. Ind. and pulse signals</b> 2 segnali A/B sfasati o ind. dest. e segnali impulsivi <i>2 AB-Spursignale oder Zielanzeige- und Impulssignale</i>		
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>TTL: high &gt; Vcc -0,5 V, low &lt; Vss +0,5 V</b> TTL: alto > Vcc -0,5 V, basso < Vss +0,5 V <i>TTL: hoch &gt; Vcc -0,5 V, niedrig &lt; Vss +0,5 V</i>		

## BG20



**Incremental panel encoder; Economic solution**  
Encoder incrementale da pannello; Soluzione economica  
*Inkrementeller Panel-Encoder; Wirtschaftliche Lösung*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	14 ° 24' / 7 ° 12'	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	25
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>		<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Optical</b> Ottico <i>Optisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 independent outputs</b> 2 segnali sfasati <i>2 unabhängige ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>Square wave ( ≥ +4,5 V high ≤ +0,5 V low)</b> Onda quadra ( ≥ +4,5 V alta ≤ +0,5 V bassa) <i>Rechteckwelle ( ≥ +4,5 V hoch ≤ +0,5 V niedrig)</i>		

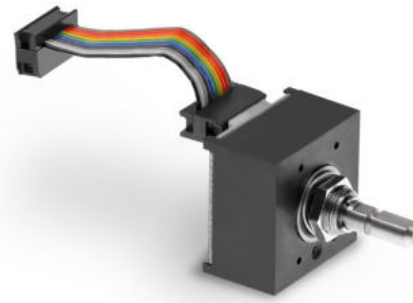
## BGE25



**Incremental panel encoder; Ball bearing shaft - Precise movement**  
Encoder incrementale da pannello; Albero con cuscinetto a sfera  
*Inkrementeller Panel-Encoder; Kugellagerwelle - Präzise Bewegung*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	15 °; 11,25 °; 5,625 °	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	64
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	Option	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 selected outputs</b> 2 segnali sfasati <i>2 ausgewählte ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>TTL: high &gt; Vcc -0,5 V, low &lt; Vss +0,5 V.</b> TTL: alto > Vcc -0,5 V, bassa < Vss +0,5 V max <i>TTL: hoch &gt; Vcc -0,5 V, niedrig &lt; Vss +0,5 V max</i>		

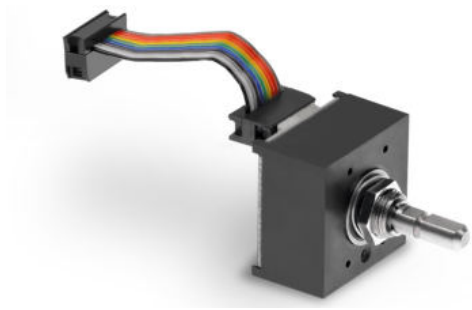
## CESI H



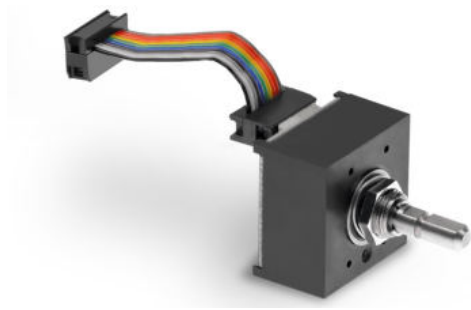
**Incremental panel encoder; Optional: 3KV insulation voltage**  
Encoder incrementale da pannello; tensione d'isolamento a 3KV  
*Inkrementeller Panel-Encoder; 3 kV Isolationsspannung*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	22,5°; 15°; 11,25° / 3,6°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	24
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>		<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Electro-magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 independent outputs</b> 2 uscite indipendenti <i>2 unabhängige ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>TTL; 0 to Vcc</b> TTL; 0 a Vcc <i>TTL; 0 bis Vcc</i>		

CESI G



CESI L

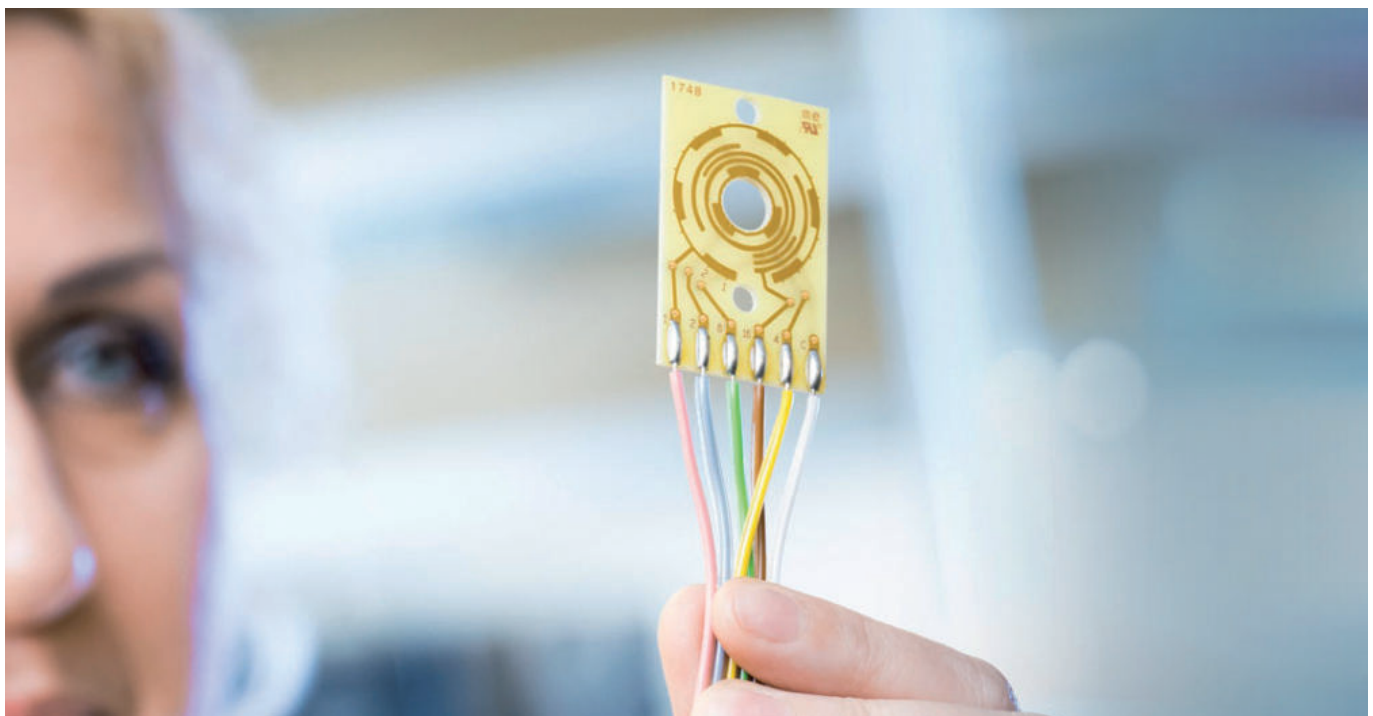


**Incremental panel encoder; Rated voltage: 9 - 24 Vdc**  
 Encoder incrementale da pannello; Tensione nominale: 9 - 24 Vdc  
 Inkrementeller Panel-Encoder; Nennspannung: 9 - 24 Vdc

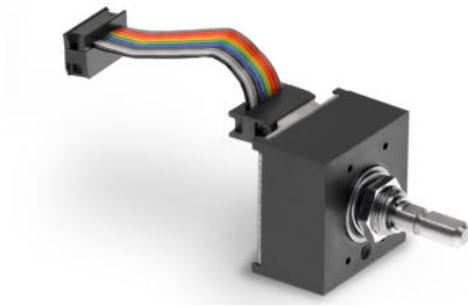
<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	22,5°; 15°; 11,25° / 3,6°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	24
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	<input type="checkbox"/>	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Electro-magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 independent outputs</b> 2 uscite indipendenti <i>2 unabhängige ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		<b>TTL; 0 to Vcc</b> TTL; 0 a Vcc <i>TTL; 0 bis Vcc</i>	

**Incremental panel encoder; Rated voltage: 5Vdc**  
 Encoder incrementale da pannello; Tensione nominale: 5Vdc  
 Inkrementeller Panel-Encoder; Nennspannung: 5 VDC

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	22,5°; 15°; 11,25° / 3,6°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	16
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	<input checked="" type="checkbox"/>	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Electro-magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 independent outputs</b> 2 uscite indipendenti <i>2 unabhängige ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		<b>TTL; 0 to Vcc</b> TTL; 0 a Vcc <i>TTL; 0 bis Vcc</i>	



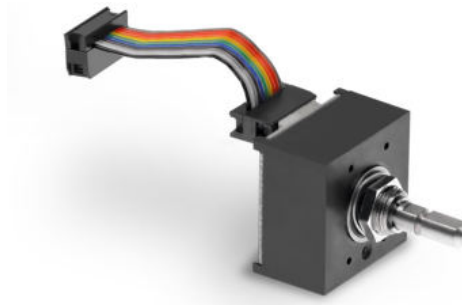
## CESI V



**Incremental panel encoder; Rated voltage: 9/24 Vdc**  
Encoder incrementale da pannello; Tensione nominale: 9/24 Vdc  
*Inkrementeller Panel-Encoder; Nennspannung: 9/24 VDC*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	22,5°; 15°; 11,25° / 3,6°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	16
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	<input checked="" type="checkbox"/>	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Electro-magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 independent outputs</b> 2 uscite indipendenti <i>2 unabhängige ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		<b>TTL; 0 to Vcc</b> TTL; 0 a Vcc <i>TTL; 0 bis Vcc</i>	

## CESI C



**Incremental panel encoder; Nominal voltage: 5Vdc**  
Encoder incrementale da pannello; Tensione nominale: 5Vdc  
*Inkrementeller Panel-Encoder; Nennspannung: 5 VDC*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	22,5°; 15°; 11,25° o 3,6°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	64
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	<input checked="" type="checkbox"/>	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Electro-magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 independent outputs</b> 2 uscite indipendenti <i>2 unabhängige ausgänge</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		<b>TTL; 0 to Vcc</b> TTL; 0 a Vcc <i>TTL; 0 bis Vcc</i>	

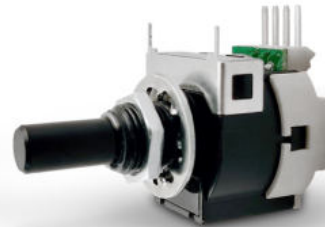
## BGE28



**Incremental panel encoder; Double ball bearing - IP65**  
Encoder incrementale da pannello; Doppio cuscinetto a sfera - IP65  
*Inkrementeller Panel-Encoder; Doppelkugellager - IP65*

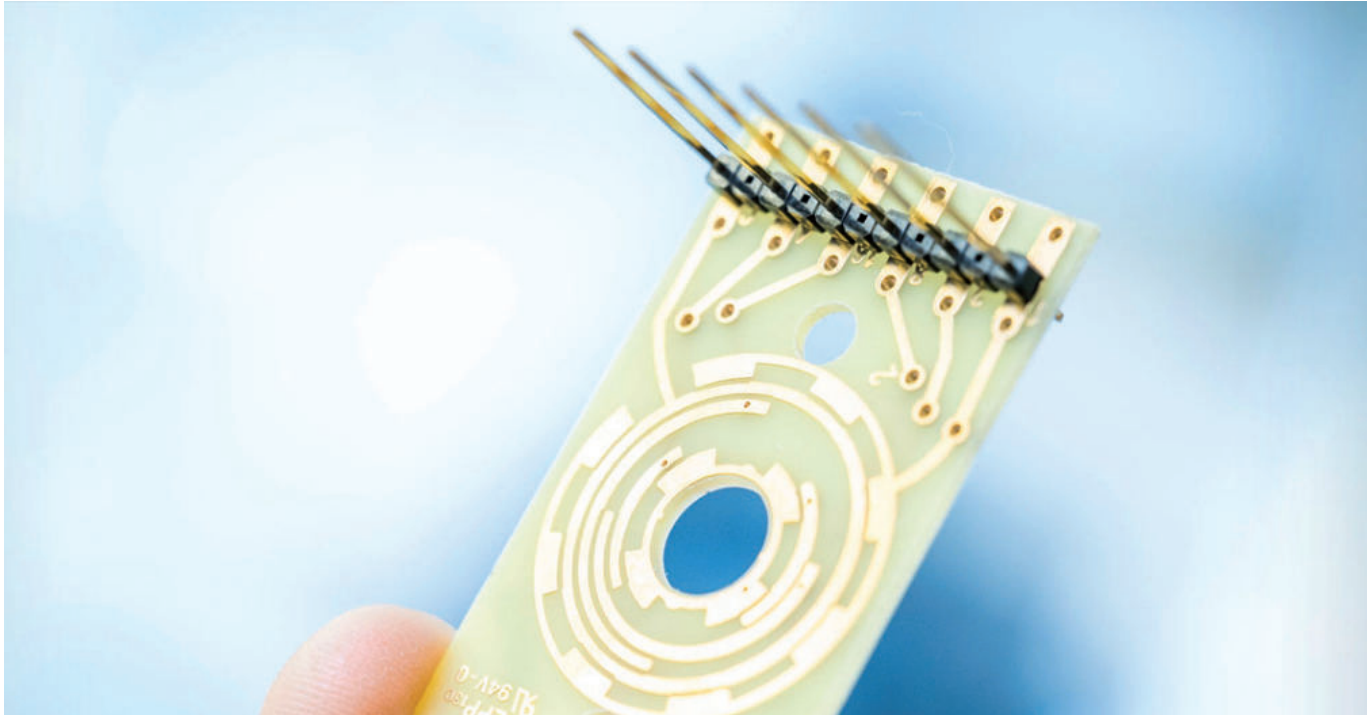
<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	11,25 °	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	32 lines (A-B)
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	<input checked="" type="checkbox"/>	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	25 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>via 2 AB track signals</b> 2 segnali in quadratura <i>Über 2 AB-Gleissignale</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		<b>Open collector up to 30V</b> Collettore aperto fino 30V <i>Offener Kollektor bis 30 V</i>	

## EC202

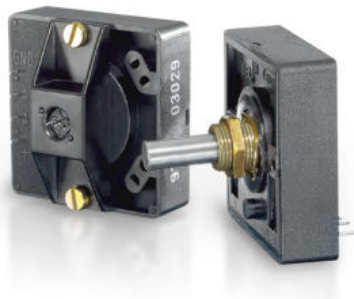


**Incremental panel encoder; On request version with high MTBF**  
Encoder incrementale da pannello; A richiesta versione con alto MTBF  
*Inkrementeller Panel-Encoder; Auf Anfrage Version mit hoher MTBF*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	11,25 °	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	50
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	<input checked="" type="checkbox"/>	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>		<b>2 outputs in quadrature</b> 2 segnali in quadratura <i>2 ausgänge in quadratur</i>	
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>		<b>Rectangular (high +4 V - low <math>\leq</math> +0,5 V)</b> Rettangolare (alto $\leq$ +4 V - basso $\leq$ +0,5 V) <i>Rechteckig (hoch +4 V - niedrig <math>\leq</math> +0,5 V)</i>	



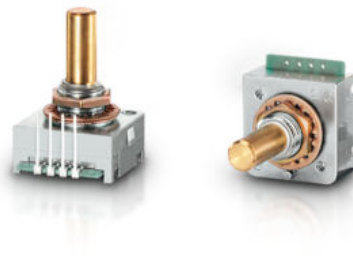
## BG40, BGI40



**Incremental panel encoder**  
Encoder incrementale da pannello  
*Inkrementeller Panel-Encoder*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	7° 12'	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	50
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	30 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>	<b>2 outputs with phase move for shaft rotation</b> 2 uscite con moto di fase per rot. albero <i>2 Ausgänge Drehbewegung Phasenbewegungswelle</i>		
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>Rectangular (high +4 V - low ≤ +0,5 V)</b> Rettangolare (alto ≤ +4 V - basso ≤ +0,5 V) <i>Rechteckig (hoch +4 V - niedrig ≤ +0,5 V)</i>		

## EC204



**Incremental panel encoder; Positioning on PCB**  
Encoder incrementale da pannello; Posizionamento su C.S.  
*Inkrementeller Panel-Encoder; Positionierung auf der Leiterplatte*

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	18°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	20
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	20 mm
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>	<b>2 outputs with phase move for shaft rotation</b> 2 uscite con moto di fase per rot. albero <i>2 Ausgänge Drehbewegung Phasenbewegungswelle</i>		
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>Rectangular (high +4 V - low ≤ +0,5 V)</b> Rettangolare (alto ≤ +4 V - basso ≤ +0,5 V) <i>Rechteckig (hoch +4 V - niedrig ≤ +0,5 V)</i>		

## CESI 100



**Incremental panel encoder; Can operate at 5V or 24V - IP65**

Encoder incrementale da pannello; Può operare a 5V o a 24V - IP65

Inkrementeller Panel-Encoder; Kann mit 5 V oder 24 V betrieben werden - IP65

<b>Detent angle</b> Angolo di scatto <i>Rastwinkel</i>	3,6°	<b>Pulse per output</b> Impulsi giro <i>Rundenimpulse</i>	100
<b>Integrated button</b> Pulsante integrato <i>Integrierte taste</i>	☒	<b>Shaft length</b> Lunghezza albero <i>Schaftlänge</i>	-
<b>Detent mechanism</b> Generazione impulsi <i>Integrierte taste</i>		<b>Magnetic</b> Magnetico <i>Magnetisch</i>	
<b>Recognition of rotation</b> Riconoscimento rotazione <i>Erkennung der Rotation</i>	<b>2 outputs with phase shift for direction of shaft rotation</b> 2 uscite con mov. fase per dir. di rotazione albero <i>2 ausgänge phasenverschiebung drehrichtung der welle</i>		
<b>Output signal</b> Segnale d'uscita <i>Ausgangssignal</i>	<b>Rt-Ang offset; Typ. H: TTL compatible; Typ. G: 0 to UB</b> Uscita angolo retto <i>Rechtwinkliger Versatz - Typ H: TTL-komp. - Typ G: 0 bis UB</i>		



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**SWITCHES**  
COMMUTATORI  
*SCHALTER*



## CONTROL AND SIGNALING SWITCHES

COMMUTATORI  
DI CONTROLLO  
E SEGNALAZIONE

SCHALTER DER  
KONTROLLE UND  
BERICHTERSTATTUNG

Screw terminals / eyelet

Morsetti a vite / occhiello

Schraubklemmen /  
Osenklemmen

10 – 25 A  
32 – 63 A  
115 – 315 A  
350 – 800 A  
1100 – 2400 A



IEC 60947-3

- ▶ Terminals accessible also when the switch is installed
- ▶ Insulation voltage: from 440 V to 1000 V
- ▶ Infinite number of switching programs
- ▶ Utilization categories: AC-23, AC-3 for motor control
- ▶ Switches with finger-safe terminals / studs
- ▶ Switch with self-cleaning "H" bridge with "cross wire" contacts
- ▶ Switches with captive terminal screws for use with ring terminals
- ▶ Types: Switches / Line switches / multi-way switches / for universal use / Series switches for universal use / Series-parallel switches for universal use / Binary codes / Voltmetric / Amperometric / Volt-Amperometric / Control / Control and Signaling with luminous knob / Motors command

- ▶ Morsetti accessibili anche a commutatore installato
- ▶ Tensioni d'isolamento: da 440 V a 1000 V
- ▶ Numero infinito di programmi di commutazione
- ▶ Categorie d'impiego: AC-23, AC-3 per comando motore
- ▶ Interruttori con terminali a prova di dito / viti prigioniere
- ▶ Switch con ponte "H" autopulente con contatti "cross wire"
- ▶ Interruttori con viti terminali imperdibili per l'uso con terminali ad anello
- ▶ Tipologie: Interruttori / Commutatori di linea / a più vie / per uso universale / Commutatori in Serie per impiego universale / Commutatori in Serie-parallelo impiego universale / Codici binari / Voltmetrici / Amperometrici / Volt-Amperometrici / di Controllo / Controllo e Segnalazione con manopola luminosa / Comando Motori

- ▶ Klemmen zugänglich, auch wenn der Schalter installiert ist
- ▶ Isolationsspannungen: von 440 V bis 1000 V
- ▶ Unendlich viele Schaltprogramme
- ▶ Gebrauchskategorien: AC-23, AC-3 für Motorsteuerung
- ▶ Schalter mit fingersicheren Klemmen / Bolzen
- ▶ Schalter mit selbstreinigender „H“-Brücke mit „Cross Wire“-Kontakten
- ▶ Schalter mit unverlierbaren Anschlusschrauben zur Verwendung mit Ringkabelschuhen
- ▶ Typen: Schalter / Linien- / Mehrwegeschalter / universell einsetzbar / Serienschalter universell einsetzbar / Serienparallelschalter universell einsetzbar / Binärcodes / Voltmetrisch / Amperometrisch / Volt-Amperometrisch / Steuern / Steuern und Melden mit Knebelbeleuchtung / Motor Steuerung



## NO-LOAD SWITCHES

INTERRUTTORI  
IN ASSENZA  
DI CARICO

SCHALTET  
OHNE LAST

350 – 800 A

1100 – 2400 A

3 x 380 V – 440



IEC 60947-3

- ▶ Vacuum switching
- ▶ Switching of resistive or slightly inductive loads
- ▶ Terminals that can be wired with cable lugs or copper bars accessible also when the switch is installed
- ▶ Bolt clamps / copper bars
- ▶ Line / multi-way switches
- ▶ Bottom / rear panel
- ▶ AC 21 B / AC 23 B
- ▶ Commutazione a vuoto
- ▶ Commutazione di carichi resistivi o leggermente induttivi
- ▶ Morsetti cablabili con capicorda o barre di rame accessibili anche a commutatore installato
- ▶ Morsetti a bullone / sbarre in rame
- ▶ Commutatori di linea / a più vie
- ▶ Retroquadro / Fondoquadro
- ▶ AC 21 B / AC 23 B

- ▶ Leerlaufschaltung
- ▶ Schalten von ohmschen oder leicht induktiven Lasten
- ▶ Klemmen, die mit Kabelschuhen oder Kupferschienen verdrahtet werden können, zugänglich auch bei eingebautem Schalter
- ▶ Bolzenklemmen / Kupferschienen
- ▶ Linien-/Mehrfachscharter
- ▶ Rückwand / Bodenplatte
- ▶ AC 21 B / AC 23 B

**ON-LOAD  
DISCONNECTOR  
K SERIES**

SEZIONATORI  
SOTTO CARICO  
SERIE K

UNTERLASTTRENNER  
K-SERIE



- ▶ **Up to/Fino a/Bis** 15 kW - 37 kW - 110 kW - 132 kW
- ▶ ON / OFF switch  
Interruttore ON/OFF  
Ein / Aus Schalter
- ▶ 2, 3, 4, 6, 8 **poles/poli/stangen**
- ▶ Line Switches - Interruttori di Linea - Leitungsschalter

IEC 60204



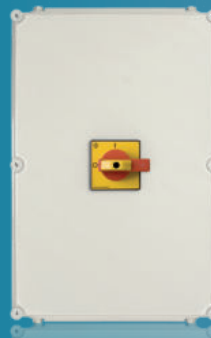
IEC 60947-3

- ▶ **Insulation voltage: from 690 V to 1000 V**
- ▶ **Rated breaking capacity:**  
220 V / 240 V / 380 V / 440 V / 660 V / 690 V
- ▶ **Utilization categories:**  
**AC-21 A: resistive load switches:**  
**AC-3: direct starting for single-phased motors**  
**AC-23 and AC-23B: switches for motor circuits and main switches**
- ▶ **Screw / ring terminals**
- ▶ Tensioni d'isolamento: da 690 V a 1000 V
- ▶ Potere nominale d'interruzione:  
220 V / 240 V / 380 V / 440 V / 660 V / 690 V
- ▶ Categorie d'impiego:  
AC-21 A: interruttori per carichi resistivi  
AC-3: avviamento diretto per motori monofase  
AC-23 e AC-23B: interruttori per circuiti motori e per interruttori principali
- ▶ Morsetti a vite / ad anello
- ▶ Isolationsspannungen: von 690 V bis 1000 V
- ▶ Nennauschaltvermögen:  
220 V / 240 V / 380 V / 440 V / 660 V / 690 V
- ▶ Anwendungskategorien:  
AC-21 A: Schalter für ohmsche Lasten  
AC-3: Direktanlauf für Einfasigmotoren  
AC-23 e AC-23B: Schalter für Motorstromkreisen und für Hauptschalter
- ▶ Schraubklemmen / Ringklemmen

**MAINTENANCE  
AND SAFETY  
SWITCHES**

INTERRUTTORI  
DI MANUTENZIONE  
E SICUREZZA

WARTUNG UND  
SICHERHEITSSCHALTER



- ▶ **Up to/Fino a/Bis** 15 kW - 37 kW - 132 kW
- ▶ **From/Da/Aus** 2 / 3 / 4 / 6 / 8 **poles/poli/stangen**



IP66/67

IEC 364-4-41

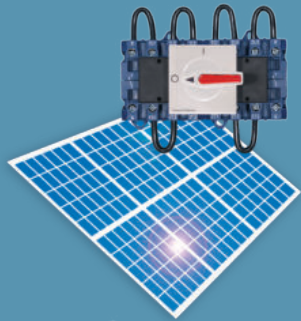
HD 384.4.41.52



EN 50262

- ▶ **High-strength plastic material**
- ▶ **Totally isolated**
- ▶ **Padlockable knobs**
- ▶ **Lid with interlock to prevent opening in 'ON' position**
- ▶ **EMC compatible connection**
- ▶ Materiale plastico ad alta resistenza
- ▶ Totalmente isolate
- ▶ Manopole lucchettabili
- ▶ Coperchio dotato di interblocco per impedire l'apertura in posizione 'ON'
- ▶ Connessione compatibile EMC
- ▶ Hochbeständiges Kunststoffmaterial
- ▶ Völlig isoliert
- ▶ Abschließbare griffen
- ▶ Deckel mit Verriegelung zum Verhindern des Öffnens in Position „EIN“.
- ▶ EMV-gerechter Anschluss





**PHOTOVOLTAIC  
G20 SERIES**

FOTOVOLTAICO  
SERIE G20

PHOTOVOLTAIK  
G20-SERIE



IEC 60204



IEC 62271

IP66/67

- ▶ Disconnectors for photovoltaic dc applications
- ▶ Rated operating current from 16 A to 64 A and from 80 V to 1000 V
- ▶ Utilization category of DC-21B or DC-22A
- ▶ High resistance to short circuits
- ▶ Sezionatori per applicazioni dc fotovoltaiche
- ▶ Correnti operative nominali da 16 A a 64 A e da 80 V a 1000 V
- ▶ Categoria di utilizzo di DC-21B o DC-22A
- ▶ Alta resistenza ai cortocircuiti
- ▶ Trennschalter für Photovoltaik-DC-Anwendungen
- ▶ Bemessungsbetriebsströme von 16 A bis 64 A und von 80 V bis 1000 V
- ▶ Nutzungskategorie von DC-21B oder DC-22A
- ▶ Hohe Kurzschlussfestigkeit

**CUSTOM PLATES**

TARGHETTE  
CUSTOM

KUNDENSPEZIFISCHE  
SCHILDERN



**SU MISURA**

Realizzazioni custom  
anche su piccole quantità



**ACCESSORIES**

ACCESSORI

ZUBEHÖR



- ▶ Door lock with integrated padlockable finish
- ▶ Auxiliary contacts
- ▶ Key-operated devices
- ▶ Padlockable finish
- ▶ Shaft extenders
- ▶ Additional terminal covers
- ▶ "Push-Pull" interlock tandem device
- ▶ Electromechanical interlock
- ▶ Undervoltage coil
- ▶ Insulating enclosures
- ▶ Special actuators for intensive use / with roller operator / double operator / rope
- ▶ Bloccoporta con finitura lucchettabile integrata
- ▶ Contatti ausiliari
- ▶ Dispositivi a chiave
- ▶ Finitura Lucchettabile
- ▶ Prolunghe Albero
- ▶ Copri morsetti aggiuntivi
- ▶ Dispositivo tandem
- ▶ Interblocco "Push-Pull"
- ▶ Interblocco elettromeccanico
- ▶ Bobina di minima tensione
- ▶ Custodie isolanti
- ▶ Azionatori speciali per uso intensivo / con operatore a rullo / doppio operatore / a corda
- ▶ Türschloss mit integriertem Vorhängeschloss
- ▶ Hilfskontakte
- ▶ Schlüsselbetätigte Geräte
- ▶ Wellenverlängerung
- ▶ Zusätzliche Klemmenabdeckungen
- ▶ Tandemgerät
- ▶ „Push-Pull“-Verriegelung
- ▶ Elektromechanische Verriegelung
- ▶ Unterspannungsspule
- ▶ Isoliergehäuse
- ▶ Spezialantriebe für intensive Nutzung / mit Rollenantrieb / Doppelantrieb / Seil

## MULTI-BENCH ROTARY SWITCHES

COMMUTATORI  
ROTATIVI  
MULTIBANCO

MULTI-BENCH  
DREHSCHALTER

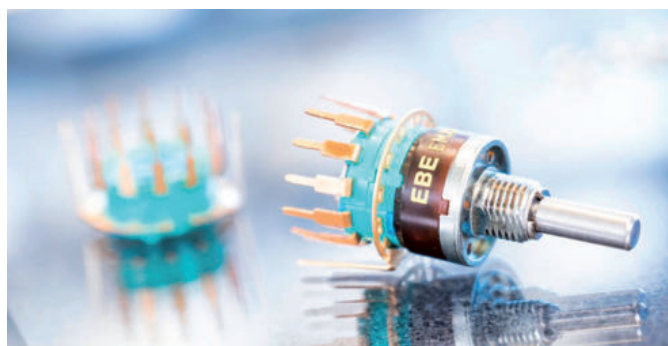


IP65

- Flat, miniature & sub-miniature
- For loose wiring or PCB soldering
- Up to 12 wafers
- From 1 to 24 circuits per wafer
- Up to 2 A
- Shorting or non-shorting mechanism
- Short-circuiting and non
- MXD mechanism with configurable limit switches

- Piatti, miniaturizzati & subminiaturizzati
- Per cablaggio libero o saldatura a circuito stampato
- Fino a 12 banchi
- Da 1 a 24 circuiti per banco
- Fino a 2 A
- Contatti cortocircuitanti e non
- MXD con fine corsa configurabili

- *Flach, Miniatur und Subminiatur*
- *Für lose Verdrahtung oder Löten auf Leiterplatten*
- *Bis zu 12 Ebenen*
- *Von 1 bis 24 Schaltkreise pro Eben*
- *Bis zu 2A*
- *Kurzschluss un der unterbrechenden schaltart*
- *MXD mit konfigurierbaren Endschaltern*



## CODE SWITCHES

COMMUTATORI  
A CODICE

CODESCHALTER

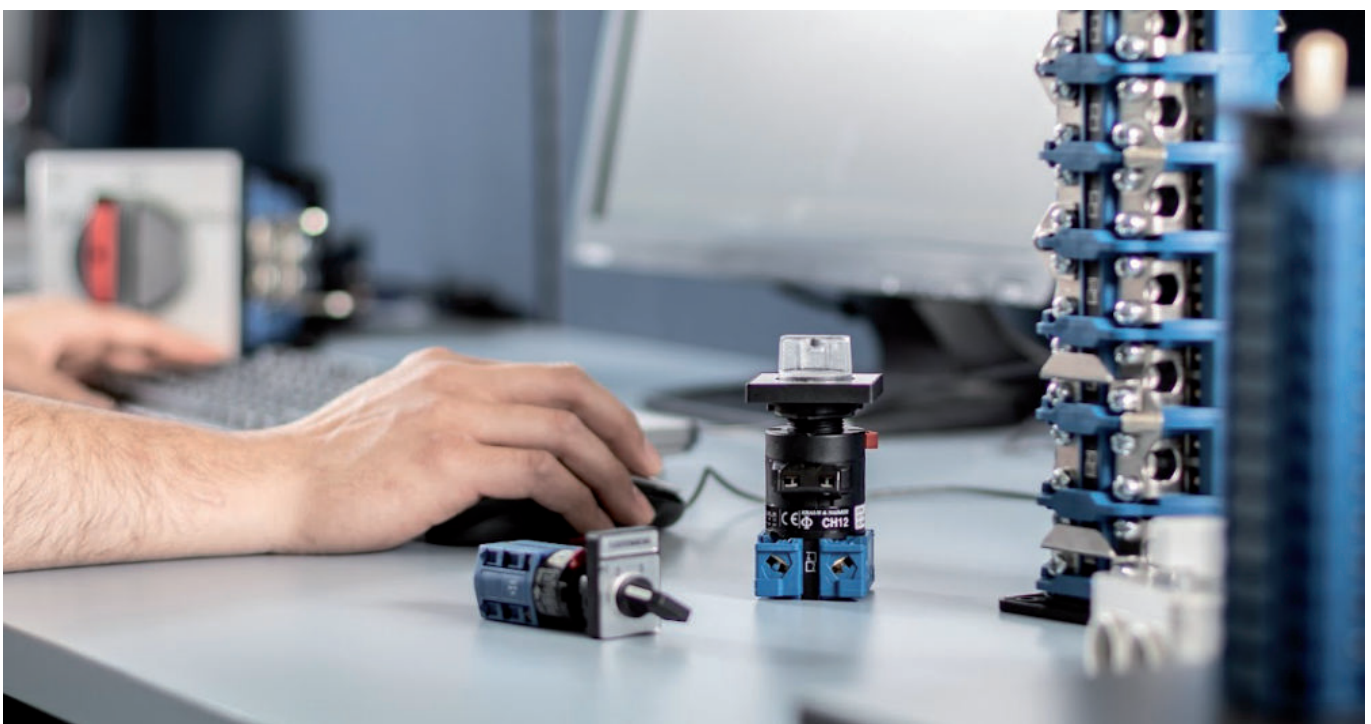
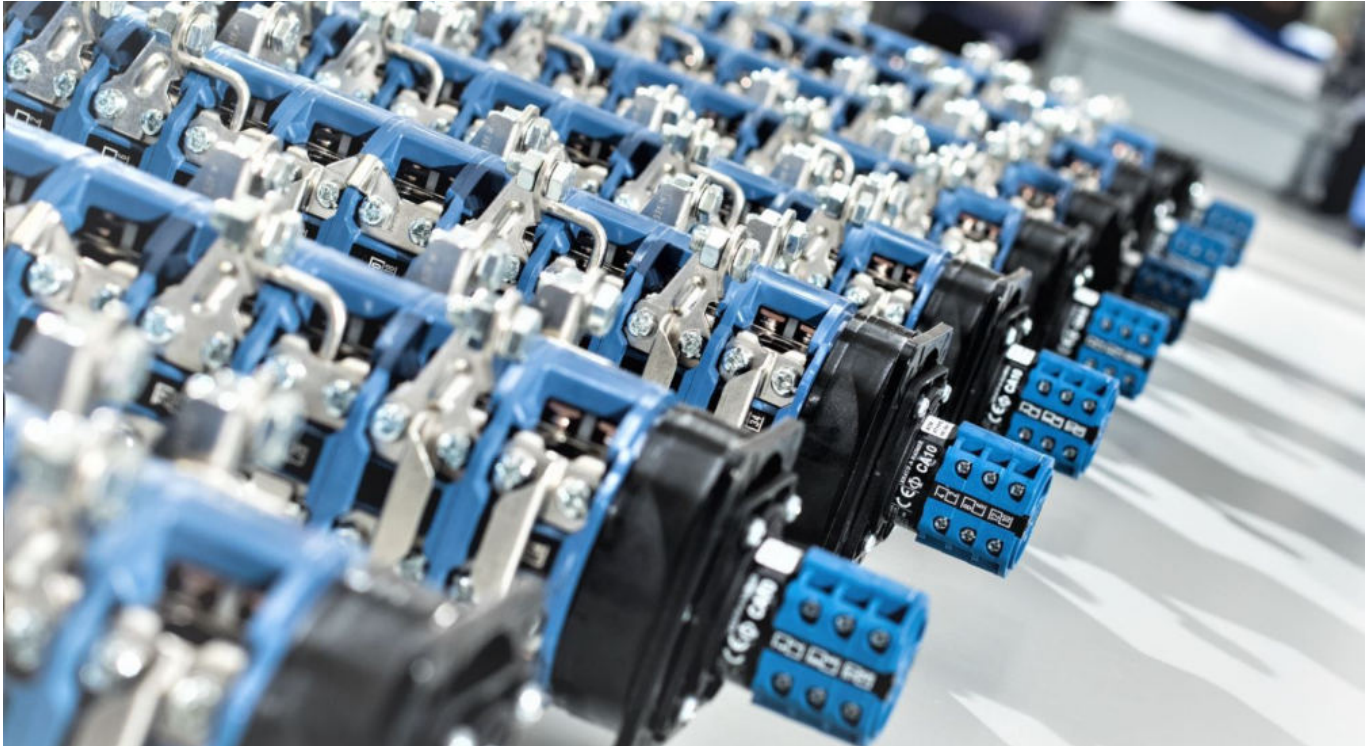


IP65

- Up to 3 wafers
- Multiple switching angles: Binary / Binary complement / Gray / complement gray
- Different types of actuators
- Available with integrated diodes
- Various possible encodings
- Adjustable stop
- Multiple output connections
- High rotational life

- Fino a 3 banchi
- Molteplici angoli di commutazione:
- Binario / Binario commutato / Grey / Grey complementare
- Attuatori di varie forme
- Disponibili con diodi integrati
- Varie codifiche possibili
- Fermo regolabile
- Molteplici connessioni d'uscita
- Alta vita rotazionale

- *Bis zu 3 Ebenen*
- *Mehrere Schaltwinkel:*
- *Binär / Binär Komplementär / Gray / Grey Komplementär*
- *Aktuatoren in verschiedenen Formen*
- *Verfügbar mit integrierten Dioden*
- *Verschiedene mögliche Kodierungen*
- *Einstellbarer Anschlag*
- *Mehrere Ausgangsanschlüsse*
- *Hohe Rotationslebensdauer*



## KEY SWITCHES

COMMUTATORI  
A CHIAVE

SCHLÜSSELSCHALTER



- › For panel and PCB
- › Multiple locking possibilities
- › Multiple switching positions
- › Up to 2 A
  
- › Da pannello e da circuito stampato
- › Molteplici possibilità di blocco
- › Molteplici posizioni di commutazione
- › Fino a 2 A
  
- › Für einbau und Leiterplatte
- › Mehrere Sperrmöglichkeiten
- › Mehrere Schaltpositionen
- › Bis zu 2A

## LIGHT INDICATORS

INDICATORI  
LUMINOSI

LEUCHTANZEIGEN



- › Panel indicators
- › Soldering
- › Crimp terminal
- › Flush or conical indicators
- › Monolithic indicator
  
- › A pannello
- › A saldare
- › Terminale a connessione rapida
- › A filo o coniche
- › Lampade monolitica
  
- › Tafel
- › Löten
- › Schnellanschlussklemme
- › Bündig oder konisch
- › Monolithische Lampen

## PUSH BUTTONS

PULSANTIERE

DRÜCK KNÖPFE




- › Illuminated & non-illuminated buttons
- › Pilot lights
- › Double button
- › Emergency stop buttons
- › Potentiometers
- › Reset buttons
  
- › Pulsanti luminosi e non luminosi
- › Luci pilota
- › A doppio pulsante
- › Pulsanti di arresto d'emergenza
- › Potenzimetri
- › Pulsanti di ripristino
  
- › Leuchtende und nicht leuchtende Tasten
- › Kontrollleuchten
- › Doppelter Knopf
- › Not-Aus-Tasten
- › Potentiometer
- › Reset-Tasten









**ROTARY KNOBS**  
MANOPOLE ROTATIVE  
DREHKNÖPFE

KNOB2101



KNOB2103

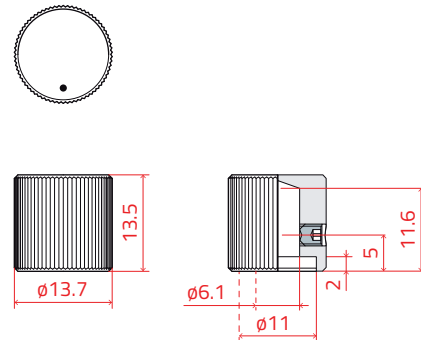
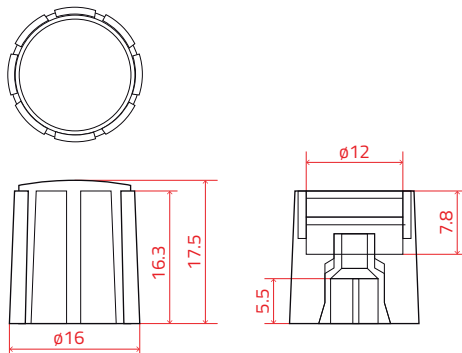


<b>Material</b> Materiale Material	CuZn / Ni	<b>Fixing</b> Fissaggio Befestigung	<b>Spindle (Wrench : 7mm)</b> Mandrino (Dado da 7 mm) Spindel (Nuss: 7mm)
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	16 mm
<b>Height</b> Altezza Höhe	17,5 mm	<b>Shaft</b> Alberino Achse	6

<b>Material</b> Materiale Material	Aluminium Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	13,7 mm
<b>Height</b> Altezza Höhe	13,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL

DIMENSION / DIMENSIONI				
XS	S	M	L	XL



## KNOB2111



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	18 mm
<b>Height</b> Altezza Höhe	20,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

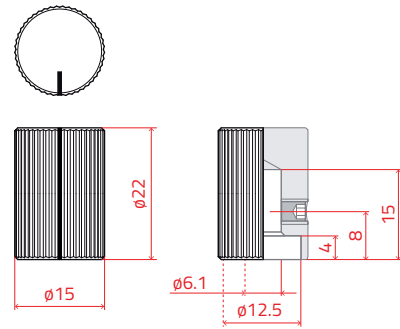
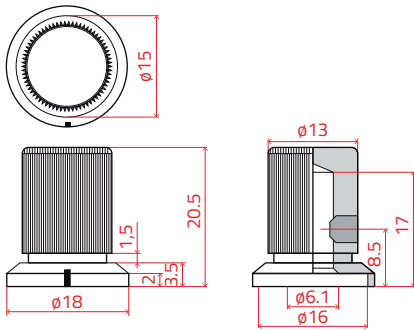
DIMENSION / DIMENSIONI				
XS	S	M	L	XL
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## KNOB2117



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	15 mm
<b>Height</b> Altezza Höhe	22 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
<input checked="" type="checkbox"/>				



## KNOB2106



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	18 mm
<b>Height</b> Altezza Höhe	10,4 mm	<b>Shaft</b> Alberino Achse	6,1 mm

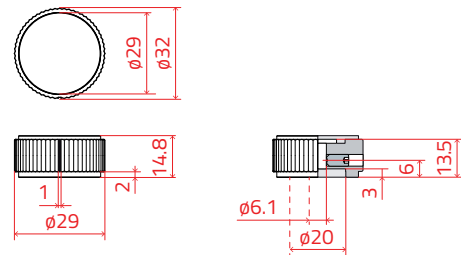
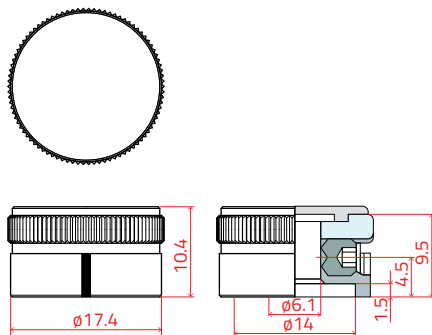
DIMENSION / DIMENSIONI				
XS	S	M	L	XL
<input checked="" type="checkbox"/>				

## KNOB2105



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Black/Silver</b> Nero/Argento Schwarz/Silber	<b>Base diameter</b> Dia. base Boden Dia.	29 mm
<b>Height</b> Altezza Höhe	14,8 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
			<input checked="" type="checkbox"/>	



## KNOB2107



<b>Material</b> Materiale	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	30 mm
<b>Height</b> Altezza Höhe	15 mm	<b>Shaft</b> Alberino Achse	6,1 mm

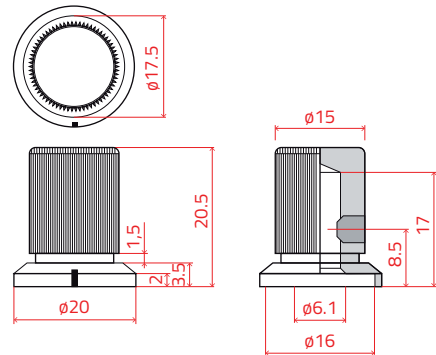
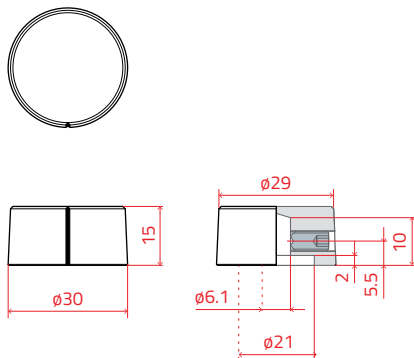
DIMENSION / DIMENSIONI				
XS	S	M	<b>L</b>	XL

## KNOB2112



<b>Material</b> Materiale	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	20 mm
<b>Height</b> Altezza Höhe	20,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	<b>S</b>	M	L	XL



## KNOB2102



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	23 mm
<b>Height</b> Altezza Höhe	20,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

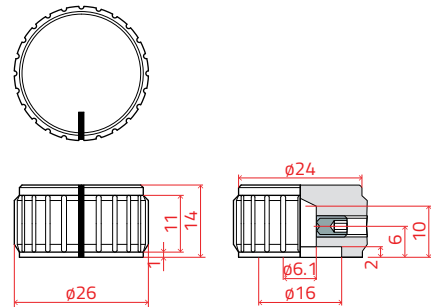
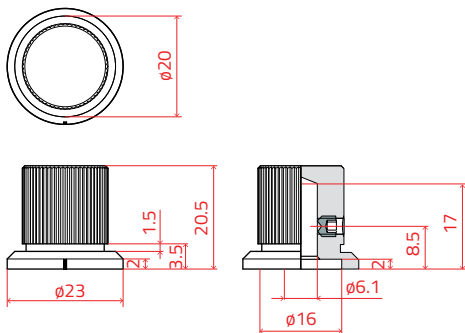
DIMENSION / DIMENSIONI				
XS	S	M	L	XL

## KNOB2104



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	26 mm
<b>Height</b> Altezza Höhe	14 mm	<b>Shaft</b> Alberino Achse	6.1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL



## KNOB2107



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver/Black</b> Argento/Nero Silber/Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	30 mm
<b>Height</b> Altezza Höhe	15 mm	<b>Shaft</b> Alberino Achse	6,1 mm

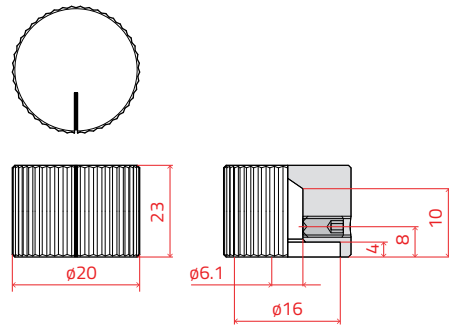
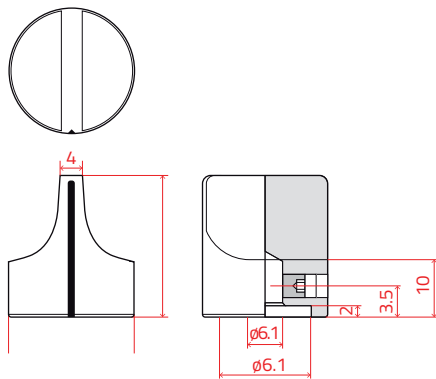
DIMENSION / DIMENSIONI				
XS	S	M	<b>L</b>	XL

## KNOB2119



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	25 mm
<b>Height</b> Altezza Höhe	18 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	<b>S</b>	M	L	XL



KNOB2118



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	20 mm
<b>Height</b> Altezza Höhe	23 mm	<b>Shaft</b> Alberino Achse	6,1 mm

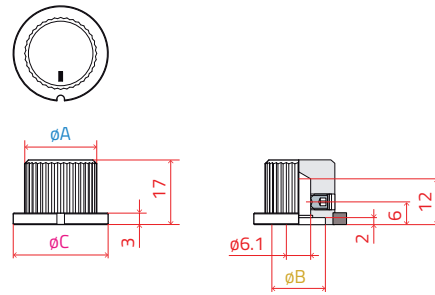
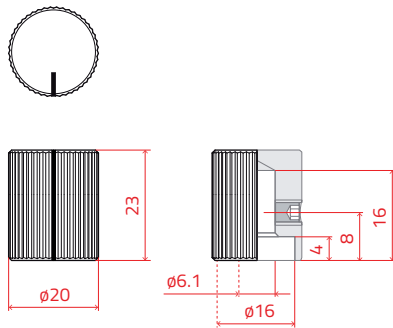
DIMENSION / DIMENSIONI				
XS	S	M	L	XL

KNOB2113



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	<b>From 21 to 28 mm</b> Da 21 a 28 mm Von 21 bis 28 mm
<b>Height</b> Altezza Höhe	17 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
	KNOB2113S	KNOB2113M	KNOB2113L	



	A	B	C
S	15	10	21
M	19	14	25
L	22	14	28



## KNOB2114



<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver/Black</b> Argento/Nero Silber/Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	<b>From 18 to 25 mm</b> Da 18 a 25 mm Von 18 bis 25 mm
<b>Height</b> Altezza Höhe	12 mm	<b>Shaft</b> Alberino Achse	6,1 mm

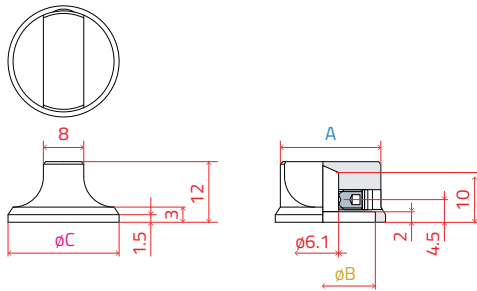
DIMENSION / DIMENSIONI				
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	KNOB2114S	KNOB2114M	KNOB2114L	

## KNOB2115

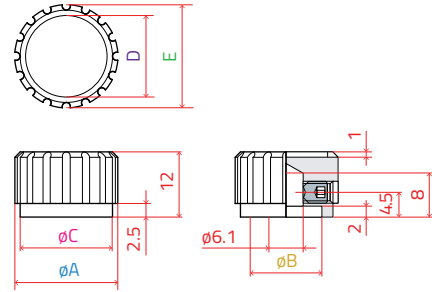


<b>Material</b> Materiale Material	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> BrugolaM4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver/Black</b> Argento/Nero Silber/Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	<b>From 15 to 22 mm</b> Da 15 a 22 mm Von 15 bis 22 mm
<b>Height</b> Altezza Höhe	12 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
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	KNOB2115S	KNOB2115M	KNOB2115L	

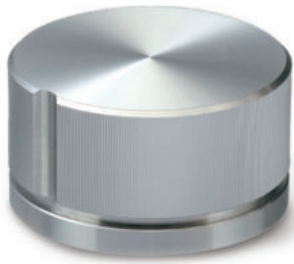


	A	B	C
S	16	14	18
M	20	18	22
L	23	21	25



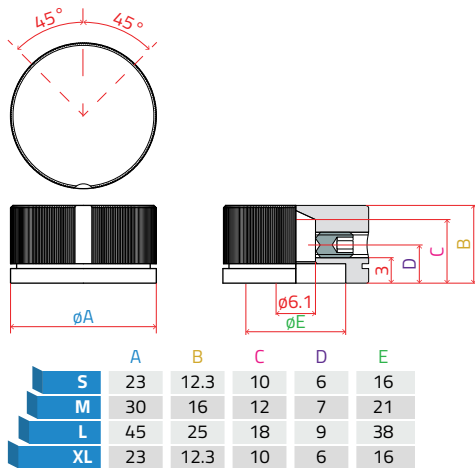
	A	B	C	D	E
S	15	10	13	10	13
M	19	13	17	15	17
L	22	14	20	17	20

## KNOB2110



<b>Material</b> Materiale	<b>Aluminium</b> Alluminio Aluminium	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Silver</b> Argento Silber	<b>Base diameter</b> Dia. base Boden Dia.	23 - 45 mm
<b>Height</b> Altezza Höhe	12,3 - 25 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S <input checked="" type="checkbox"/>	M <input checked="" type="checkbox"/>	L <input checked="" type="checkbox"/>	XL
	KNOB2110S	KNOB2110M	KNOB2110L	



### Note

Colore nero opzionale

Option: black

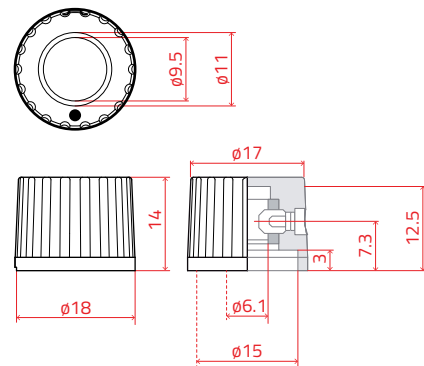
Option: Schwarz

## KNOB1136



<b>Material</b> Materiale	<b>Phenolic resin</b> Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	18 mm
<b>Height</b> Altezza Höhe	14 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS <input checked="" type="checkbox"/>	S	M	L	XL



## KNOB1104



<b>Material</b> Materiale	<b>Phenolic resin</b> Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	15,5 mm
<b>Height</b> Altezza Höhe	9,3 mm	<b>Shaft</b> Alberino Achse	6,1 mm

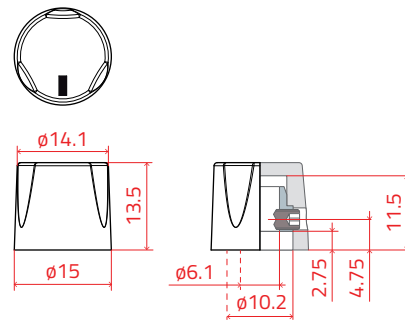
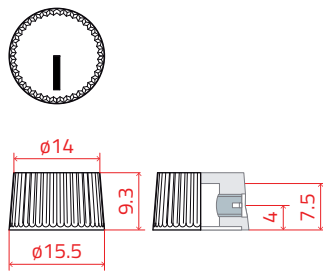
DIMENSION / DIMENSIONI				
XS	S	M	L	XL
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## KNOB1108



<b>Material</b> Materiale	<b>Abs</b>	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	15 mm
<b>Height</b> Altezza Höhe	13,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

COLORS / COLORI / FARBEN	
<b>KNOB1108B</b>	<b>KNOB1108GY</b>



## KNOB1112



<b>Material</b> Materiale Material	Abs	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	15,5 mm
<b>Height</b> Altezza Höhe	9,3 mm	<b>Shaft</b> Alberino Achse	6,1 mm

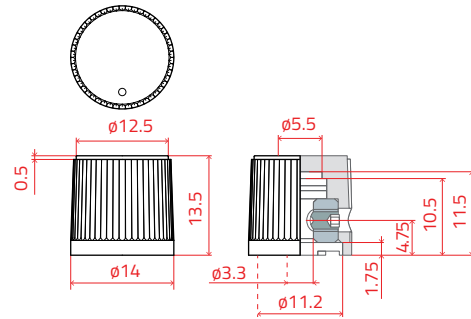
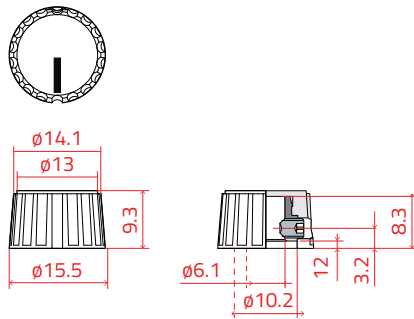
DIMENSION / DIMENSIONI				
XS	S	M	L	XL
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## KNOB1137



<b>Material</b> Materiale Material	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	14 mm
<b>Height</b> Altezza Höhe	13,5 mm	<b>Shaft</b> Alberino Achse	3,3 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
<input checked="" type="checkbox"/>				



## KNOB1119



<b>Material</b> Materiale Material	Nylon 6	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	16 mm
<b>Height</b> Altezza Höhe	16,3 mm	<b>Shaft</b> Alberino Achse	6,1 mm

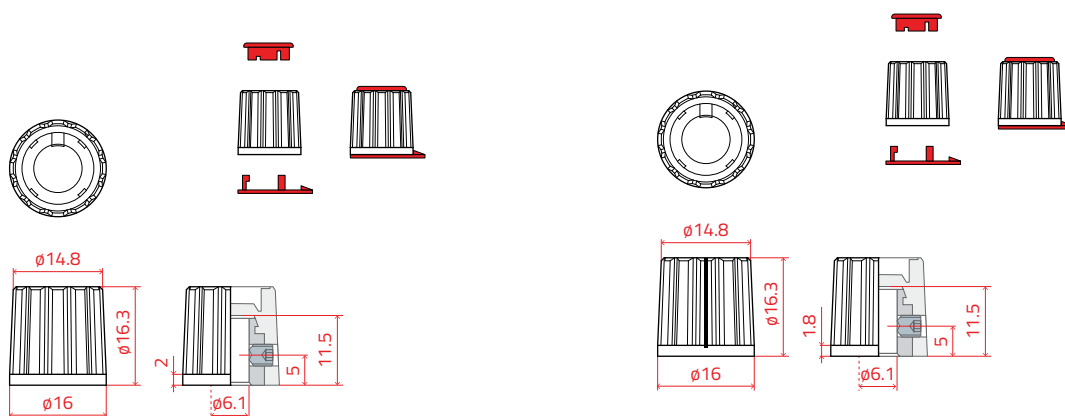
<b>COLORS / COLORI / FARBEN</b>			
KNOB1119B	KNOB1119GY		

## KNOB1118



<b>Material</b> Materiale Material	Nylon 6	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	16 mm
<b>Height</b> Altezza Höhe	16,3 mm	<b>Shaft</b> Alberino Achse	6,1 mm

<b>COLORS / COLORI / FARBEN</b>			
KNOB1118B	KNOB1118GY		



Related products: / Prodotti correlati:		
<b>KNOB1123</b>	p. 24	<b>Cap without index for rotary knob</b> Tappo senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf
<b>KNOB1122</b>	p. 25	<b>Cap with index for 16 mm rotary knob</b> Tappo con indice per manopole da 16 mm Stöpsel mit Anzeiger für Drehknopf

Related products: / Prodotti correlati:		
<b>KNOB1123</b>	p. 24	<b>Cap without index for rotary knob</b> Tappo senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf
<b>KNOB1122</b>	p. 25	<b>Cap with index for 16 mm rotary knob</b> Tappo con indice per manopole da 16 mm Stöpsel mit Anzeiger für Drehknopf

## KNOB1121



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	16 mm
<b>Height</b> Altezza Höhe	16,3 mm	<b>Shaft</b> Alberino Achse	6,1 mm

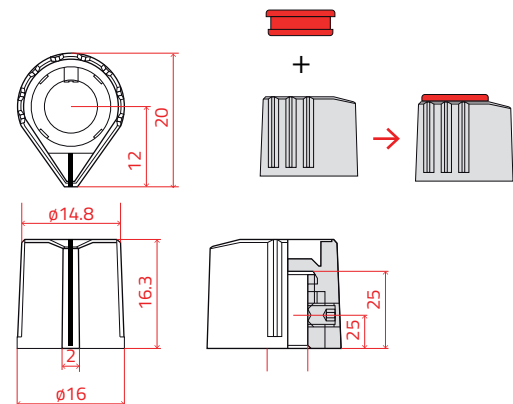
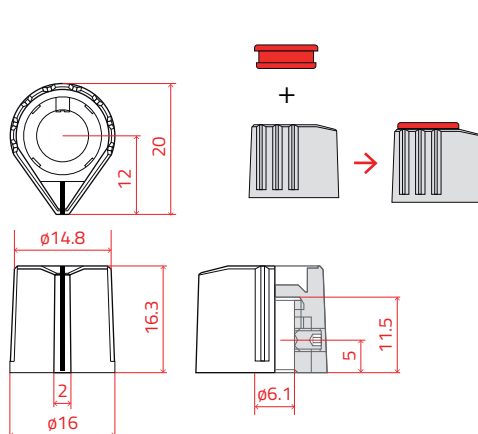
**COLORS / COLORI / FARBEN**  
KNOB1121B      KNOB1121GY

## KNOB1120



<b>Material</b> Materiale Material	Nylon 6 (UL94-V0)	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	16 mm
<b>Height</b> Altezza Höhe	16,3 mm	<b>Shaft</b> Alberino Achse	6,1 mm

**COLORS / COLORI / FARBEN**  
KNOB1120B      KNOB1120GY



**Related products: / Prodotti correlati:**

<b>KNOB1122</b>	p. 25	<b>Cap with index for 16 mm rotary knob</b> Tappo con indice per manopole da 16 mm Stöpsel mit Anzeiger für Drehknopf
<b>KNOB1123</b>	p. 24	<b>Cap without index for rotary knob</b> Tappo senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf

**Related products: / Prodotti correlati:**

<b>KNOB1122</b>	p. 25	<b>Cap with index for 16 mm rotary knob</b> Tappo con indice per manopole da 16 mm Stöpsel mit Anzeiger für Drehknopf
<b>KNOB1123</b>	p. 24	<b>Cap without index for rotary knob</b> Tappo senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf

## KNOB1128



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	22 mm
<b>Height</b> Altezza Höhe	17,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

**COLORS / COLORI / FARBEN**

**KNOB1128B**

**KNOB1128GY**

## KNOB1127

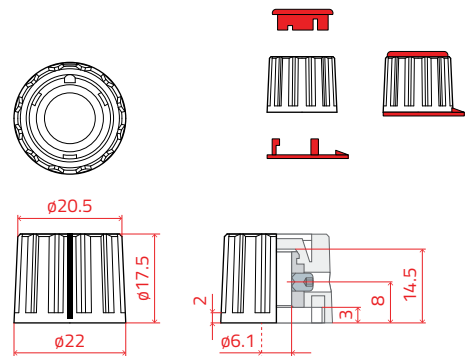
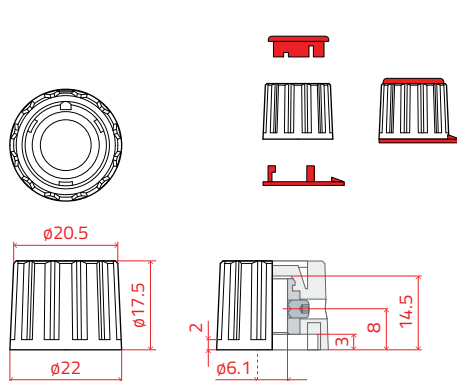


<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	22 mm
<b>Height</b> Altezza Höhe	17,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

**COLORS / COLORI / FARBEN**

**KNOB1127-B**

**KNOB1127-GY**



**Related products: / Prodotti correlati:**

<b>KNOB1132</b>	p. 25	<b>Diameter cap without index for rotary knob</b> Tappo in nylon 6 senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf
<b>KNOB1131</b>	p. 26	<b>Index cap for rotary knob</b> Tappo in nylon 6 con indice Stöpsel mit Anzeiger für Drehknopf
<b>KNOB1134</b>	p. 27	<b>Transparent base with progressive number</b> Base trasparente numerata per manopola Durchsichtig mit progressiven Nummern

**Related products: / Prodotti correlati:**

<b>KNOB1132</b>	p. 25	<b>Diameter cap without index for rotary knob</b> Tappo in nylon 6 senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf
<b>KNOB1131</b>	p. 26	<b>Index cap for rotary knob</b> Tappo in nylon 6 con indice Stöpsel mit Anzeiger für Drehknopf

## KNOB1130



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	22 mm
<b>Height</b> Altezza Höhe	17,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

COLORS / COLORI / FARBEN

KNOB1130B

KNOB1130GY

## KNOB1129

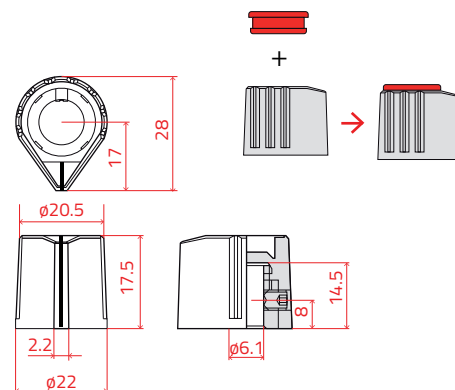
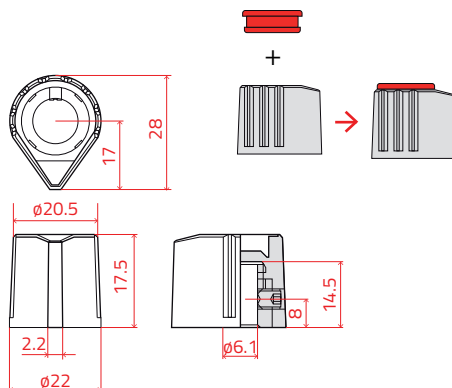


<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black or light grey</b> Nero o grigio Schwarz oder hellgrau	<b>Base diameter</b> Dia. base Boden Dia.	22 mm
<b>Height</b> Altezza Höhe	17,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

COLORS / COLORI / FARBEN

KNOB1129-B

KNOB1129-GY



Related products: / Prodotti correlati:

<b>KNOB1131</b>	p. 26	<b>Index cap for rotary knob</b> Tappo in nylon 6 con indice Stöpsel mit Anzeiger für Drehknopf
<b>KNOB1132</b>	p. 25	<b>Diameter cap without index for rotary knob</b> Tappo in nylon 6 senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf

Related products: / Prodotti correlati:

<b>KNOB1131</b>	p. 26	<b>Index cap for rotary knob</b> Tappo in nylon 6 con indice Stöpsel mit Anzeiger für Drehknopf
<b>KNOB1132</b>	p. 25	<b>Diameter cap without index for rotary knob</b> Tappo in nylon 6 senza indice per manopole Stöpsel ohne Anzeiger für Drehknopf



## KNOB1138



<b>Material</b> Materiale Material	<b>Phenolic resin</b> Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	14 mm
<b>Height</b> Altezza Höhe	13,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

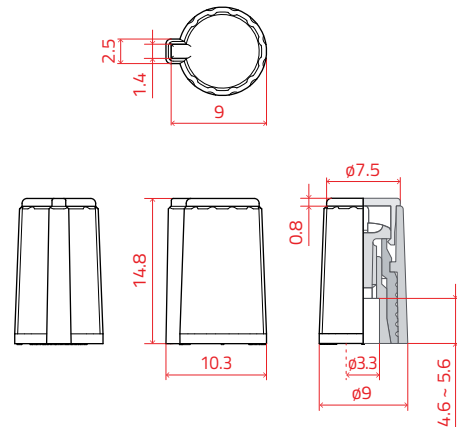
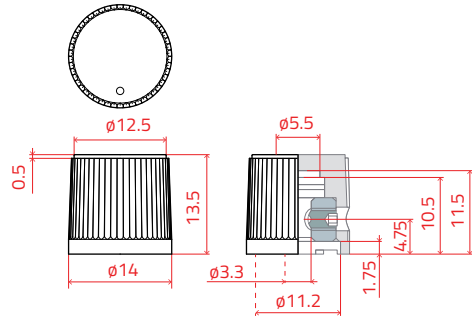
DIMENSION / DIMENSIONI				
XS	S	M	L	XL

## KNOB1113



<b>Material</b> Materiale Material	Nylon 66	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M2,5</b> Brugola M2,5 Inbusschlüssel M2,5
<b>Colour</b> Colore Farbe	<b>5 colors available</b> 5 colori disponibili 5 farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	10,3 mm
<b>Height</b> Altezza Höhe	14,8 mm	<b>Shaft</b> Alberino Achse	3.3 mm

COLORS / COLORI / FARBEN		
<b>KNOB1113W</b>	<b>KNOB1113Y</b>	<b>KNOB1113R</b>
<b>KNOB1113BL</b>	<b>KNOB1113LU</b>	



## KNOB1109



<b>Material</b> Materiale Material	Abs	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>4 colors available</b> 4 colori disponibili 4 Farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	26 mm
<b>Height</b> Altezza Höhe	17,3 mm	<b>Shaft</b> Alberino Achse	3,3 mm

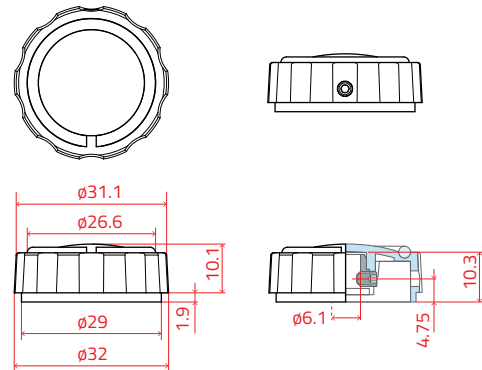
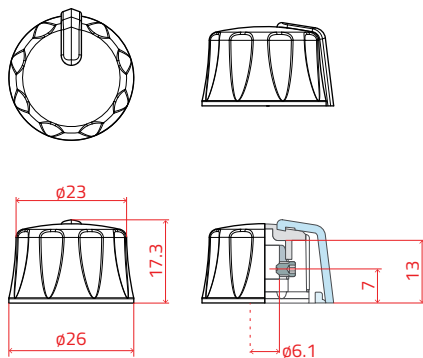
COLORS / COLORI / FARBEN		
KNOB1109W	KNOB1109Y	KNOB1109R
KNOB1109BL		

## KNOB1110



<b>Material</b> Materiale Material	Abs	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>5 colors available</b> 5 colori disponibili 5 farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	32 mm
<b>Height</b> Altezza Höhe	10,1 mm	<b>Shaft</b> Alberino Achse	6,1 mm

COLORS / COLORI / FARBEN		
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KNOB1110BL	KNOB1110LU	

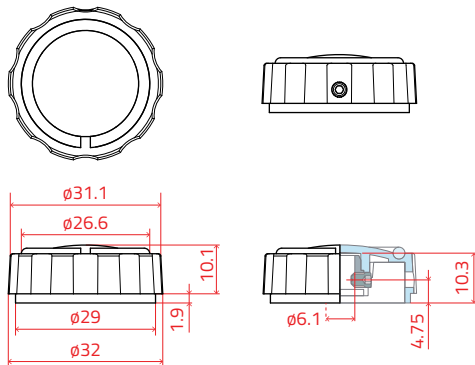


## KNOB1111



<b>Material</b> Materiale Material	Abs	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3</b> Brugola M3 Inbusschlüssel M3
<b>Colour</b> Colore Farbe	<b>5 colors available</b> 5 colori disponibili 5farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	32 mm
<b>Height</b> Altezza Höhe	12 mm	<b>Shaft</b> Alberino Achse	6,1 mm

COLORS / COLORI / FARBEN		
KNOB1111W	KNOB1111Y	KNOB1111R
KNOB1111BL	KNOB1111LU	

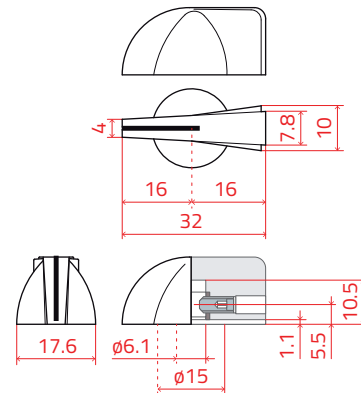


## KNOB1103

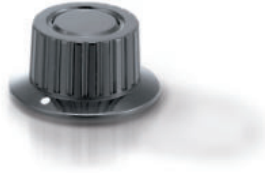


<b>Material</b> Materiale Material	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	17,6 mm
<b>Height</b> Altezza Höhe	15 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
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## KNOB1135



<b>Material</b> Materiale	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	Allen M4 Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	Black Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	35 mm
<b>Height</b> Altezza Höhe	18 mm	<b>Shaft</b> Alberino Achse	6,1 mm

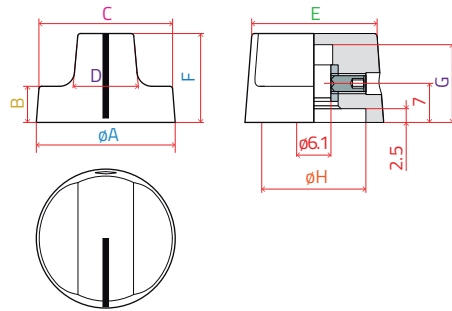
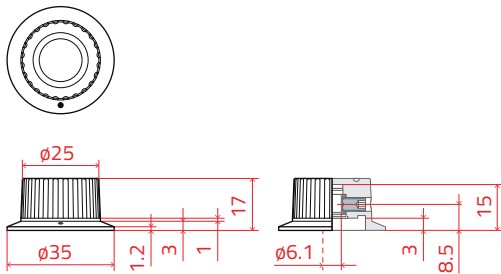
DIMENSION / DIMENSIONI				
XS	S	M	L	XL
		☑		

## KNOB1107



<b>Material</b> Materiale	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	Allen M3,5 / M4 Brugola M3,5 / M4 Inbusschlüssel M3,5 / M4
<b>Colour</b> Colore Farbe	Black Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	From 22 to 29 mm Da 22 a 29 mm Von 22 bis 29 mm
<b>Height</b> Altezza Höhe	Da 15 a 17 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
	☑	☑	☑	
	KNOB1107S	KNOB1107M	KNOB1107L	



	A	B	C	D	E	F	G	H
S	22	6	21	11.5	19.5	15	13	18.5
M	25	6.5	24	11.5	22.5	16	14	19
L	29	7	27.5	12	26	17	15	23

## KNOB1117



<b>Material</b> Materiale Material	<b>Phenolic resin</b> Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5</b> Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	<b>From 20 to 30 mm</b> Da 20 a 30 mm Von 20 bis 30 mm
<b>Height</b> Altezza Höhe	Da 12 a 18 mm	<b>Shaft</b> Alberino Achse	6,1 mm

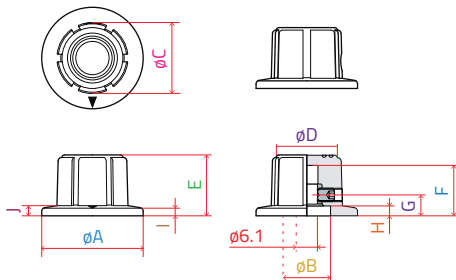
DIMENSION / DIMENSIONI				
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		<b>KNOB1117M</b>	<b>KNOB1117L</b>	

## KNOB1102

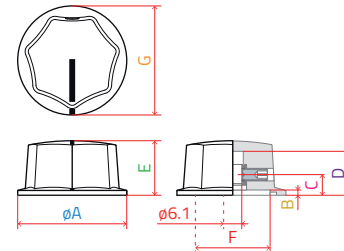


<b>Material</b> Materiale Material	<b>Phenolic resin</b> Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M3,5 / M4</b> Brugola M3,5 / M4 Inbusschlüssel M3,5 / M4
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	<b>From 20 to 39,5 mm</b> Da 20 a 39,5 mm Von 20 bis 39,5 mm
<b>Height</b> Altezza Höhe	Da 11 a 18,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>KNOB1102XS</b>	<b>KNOB1102S</b>	<b>KNOB1102M</b>	<b>KNOB1102L</b>	



	A	B	C	D	E	F	G	H	I	J
<b>M</b>	20	10.65	14	12	12	10	5.25	1.8	1.5	2
<b>L</b>	30	13.6	21	18	18	15	6.25	3	2	3



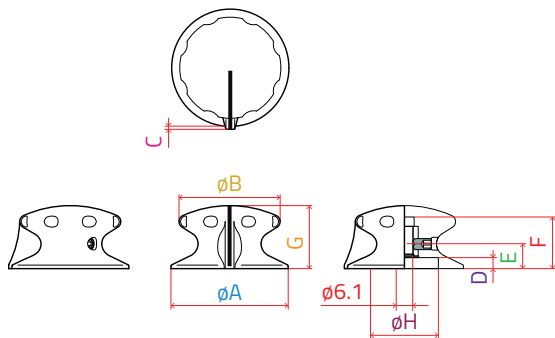
	A	B	C	D	E	F	G
<b>XS</b>	20	1.6	5.5	9.5	11	14	16
<b>S</b>	23.5	1.6	6	12.5	15	14	20
<b>M</b>	34	1.7	6.5	14	17	24	30
<b>L</b>	39.5	1.6	7	15	18.5	28	34.5

KNOB1101



<b>Material</b> Materiale Material	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	Allen Brugola Inbusschlüssel
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	<b>From 22 to 40 mm</b> Da 22 a 40 mm Von 22 bis 40 mm
<b>Height</b> Altezza Höhe	Da 12,5 a 21,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS ☑	S ☑	M ☑	L ☑	XL
KNOB1101XS	KNOB1101S	KNOB1101M	KNOB1101L	



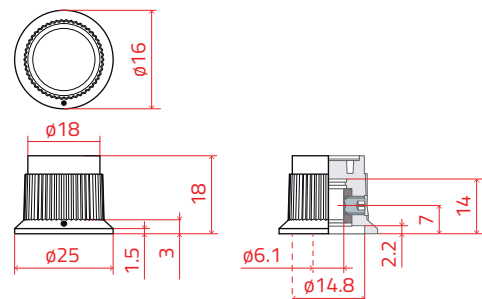
	A	B	C	D	E	F	G	H
XS	22	19	0.5	2.5	5.5	11	12.5	13
S	26	25	0.5	2.5	7	13.5	16.5	16
M	33	30	0	3	7	17	19.7	15
L	40	34.5	1	4	8.5	17.5	21.5	23

KNOB2104



<b>Material</b> Materiale Material	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	Allen M3,5 Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	19 mm
<b>Height</b> Altezza Höhe	13,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS ☑	S	M	L	XL



## KNOB1103



<b>Material</b> Materiale Material	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	Allen M3,5 Brugola M3,5 Inbusschlüssel M3,5
<b>Colour</b> Colore Farbe	Black Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	19 mm
<b>Height</b> Altezza Höhe	13,5 mm	<b>Shaft</b> Alberino Achse	6,1 mm

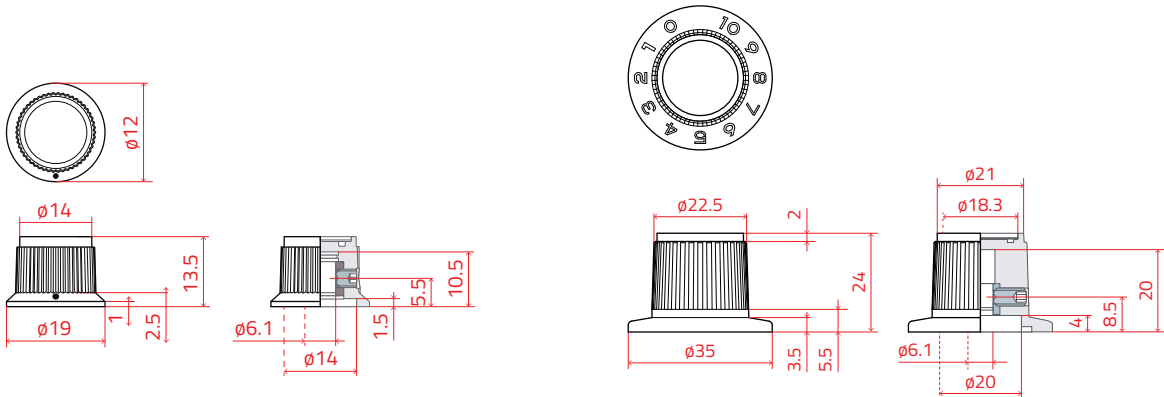
DIMENSION / DIMENSIONI				
XS	S	M	L	XL
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## KNOB1115



<b>Material</b> Materiale Material	Phenolic resin Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	Allen M4 Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	Black Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	35 mm
<b>Height</b> Altezza Höhe	24 mm	<b>Shaft</b> Alberino Achse	6,1 mm

DIMENSION / DIMENSIONI				
XS	S	M	L	XL
		<input checked="" type="checkbox"/>		



## KNOB1114



<b>Material</b> Materiale Material	<b>Phenolic resin</b> Resina fenolica Phenolharz	<b>Fixing</b> Fissaggio Befestigung	<b>Allen M4</b> Brugola M4 Inbusschlüssel M4
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	35 mm
<b>Height</b> Altezza Höhe	24 mm	<b>Shaft</b> Alberino Achse	6,1 mm

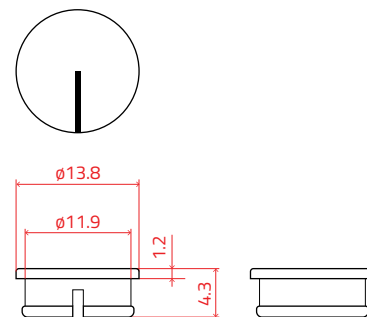
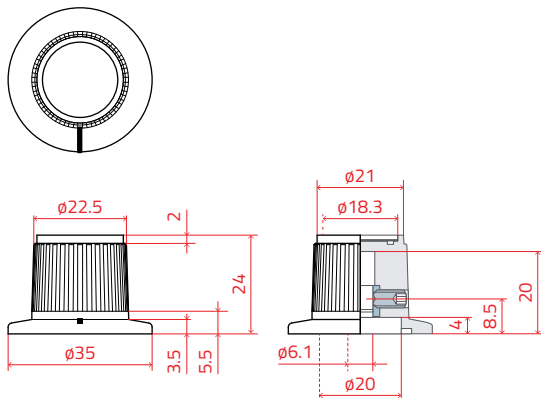
DIMENSION / DIMENSIONI				
XS	S	M <input checked="" type="checkbox"/>	L	XL

## KNOB1123



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	-
<b>Colour</b> Colore Farbe	<b>6 colors available</b> 6 colori disponibili 6 farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	11,9 mm
<b>Height</b> Altezza Höhe	4,3+1,2 mm	<b>Shaft</b> Alberino Achse	-

COLORS / COLORI / FARBEN		
<b>KNOB1123-B</b>	<b>KNOB1123-GY</b>	<b>KNOB1123-R</b>
<b>KNOB1123-OR</b>	<b>KNOB1123-BL</b>	<b>KNOB1123-G</b>



### Related products: / Prodotti correlati:

<b>KNOB1119</b>	p. 13	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1118</b>	p. 13	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1121</b>	p. 14	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1120</b>	p. 14	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff



## KNOB1132



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	-
<b>Colour</b> Colore Farbe	<b>6 colors available</b> 6 colori disponibili 6 farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	19,2 mm
<b>Height</b> Altezza Höhe	6,3 mm	<b>Shaft</b> Alberino Achse	-

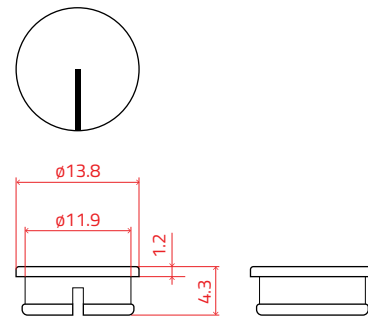
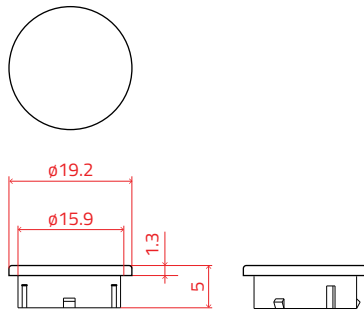
COLORS / COLORI / FARBEN		
<b>KNOB1132B</b>	<b>KNOB1132GY</b>	<b>KNOB1132R</b>
<b>KNOB1132OR</b>	<b>KNOB1132BL</b>	<b>KNOB1132G</b>

## KNOB1122



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	-
<b>Colour</b> Colore Farbe	<b>Black</b> Nero Schwarz	<b>Base diameter</b> Dia. base Boden Dia.	11,9 mm
<b>Height</b> Altezza Höhe	4,3+1,2 mm	<b>Shaft</b> Alberino Achse	-

COLORS / COLORI / FARBEN		
<b>KNOB1122-B</b>	<b>KNOB1122-GY</b>	<b>KNOB1122-R</b>
<b>KNOB1122-OR</b>	<b>KNOB1122-BL</b>	<b>KNOB1122-G</b>



### Related products: / Prodotti correlati:

<b>KNOB1128</b>	p. 15	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1127</b>	p. 15	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1130</b>	p. 16	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1129</b>	p. 16	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff

### Related products: / Prodotti correlati:

<b>KNOB1119</b>	p. 13	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1118</b>	p. 13	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1121</b>	p. 14	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1120</b>	p. 14	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff

## KNOB1131



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	-
<b>Colour</b> Colore Farbe	<b>6 colors available</b> 6 colori disponibili 6 farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	19,2 mm
<b>Height</b> Altezza Höhe	6,3 mm	<b>Shaft</b> Alberino Achse	-

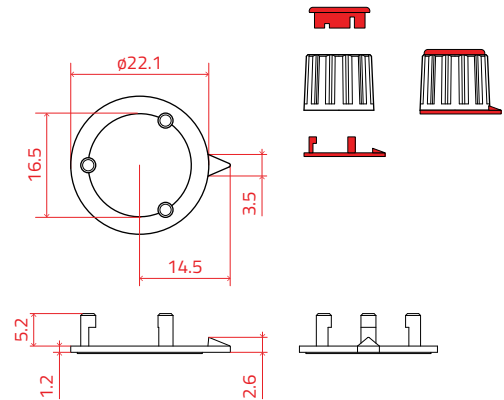
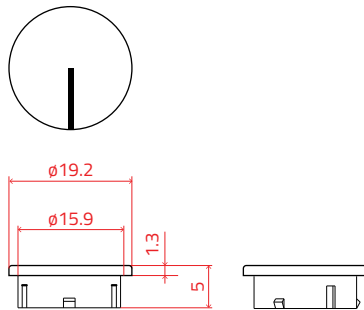
COLORS / COLORI / FARBEN		
<b>KNOB1131B</b>	<b>KNOB1131GY</b>	<b>KNOB1131R</b>
<b>KNOB1131OR</b>	<b>KNOB1131BL</b>	<b>KNOB1131G</b>

## KNOB1133



<b>Material</b> Materiale Material	Nylon 6 (UL94-V2)	<b>Fixing</b> Fissaggio Befestigung	-
<b>Colour</b> Colore Farbe	<b>6 colors available</b> 6 colori disponibili 6 farben erhältlich	<b>Base diameter</b> Dia. base Boden Dia.	22,1 mm
<b>Height</b> Altezza Höhe	1,2 mm	<b>Shaft</b> Alberino Achse	6,1 mm

COLORS / COLORI / FARBEN		
<b>KNOB1133EB</b>	<b>KNOB1133GY</b>	<b>KNOB1133R</b>
<b>KNOB1133OR</b>	<b>KNOB1133BL</b>	<b>KNOB1133G</b>



### Related products: / Prodotti correlati:

<b>KNOB1128</b>	p. 15	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1127</b>	p. 15	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1130</b>	p. 16	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1129</b>	p. 16	<b>Rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff

### Related products: / Prodotti correlati:

<b>KNOB1128</b>	p. 15	<b>Nylon rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff
<b>KNOB1127</b>	p. 15	<b>Nylon rotary knob</b> Manopola rotativa in Nylon Drehknopf aus Kunststoff



