PZ

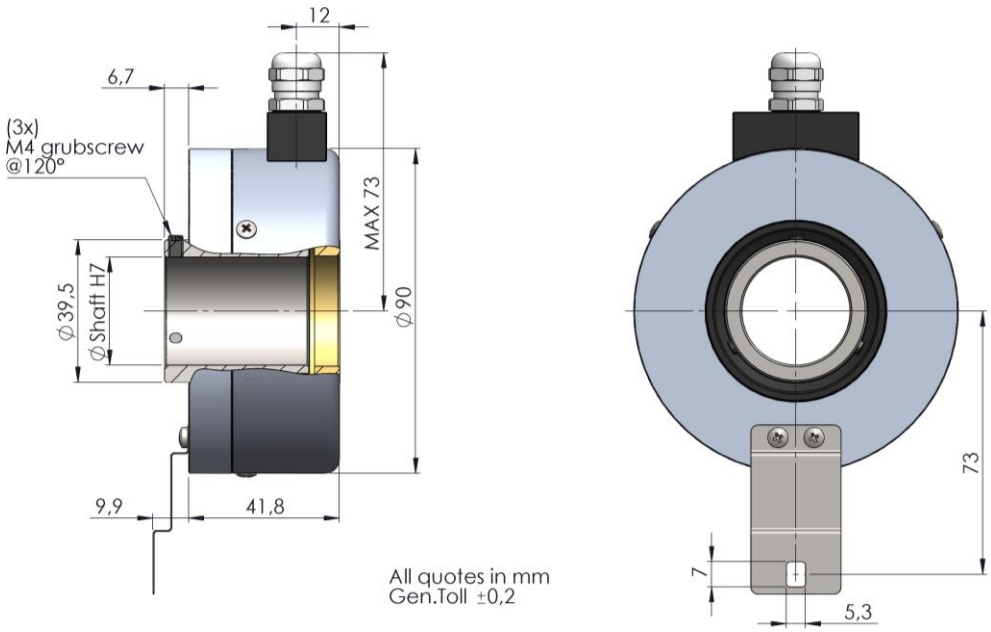
Encoder incrementale / Assoluti SSI e Analogico 4-20mA e 0-10V albero passante ø15mm→ø150mm
Incremental /SSI absolute end Analog hollow shaft encoder ø15mm → ø150mm

Dati Meccanici / *Mechanics Data*

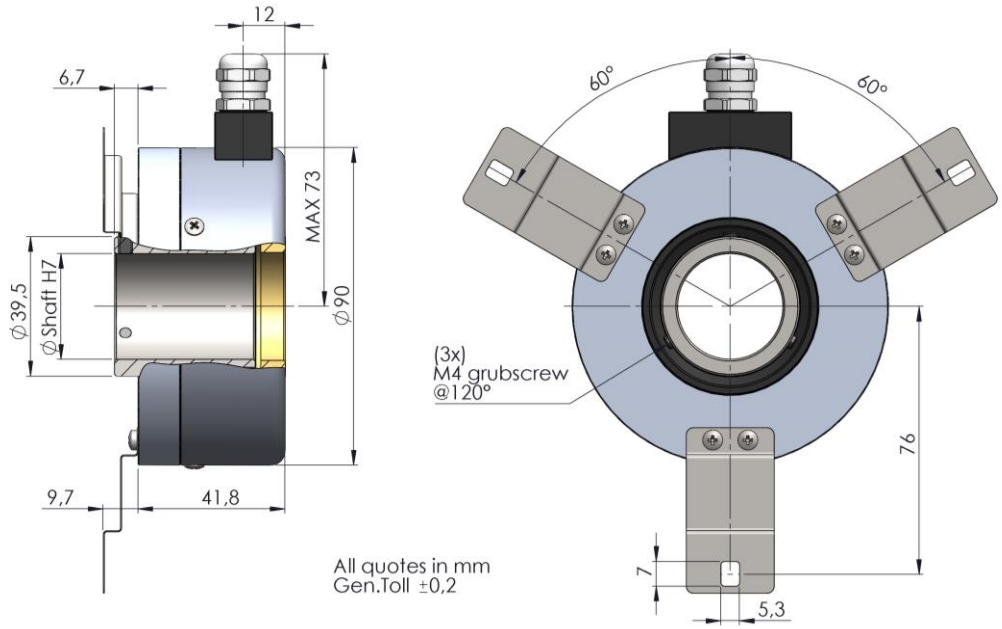
Custodia / *Cover* : Alluminio / *Aluminium*
Flangia / *Body* : Alluminio / *Aluminium*
Albero / *Shaft* : Acciaio INOX / *Stainless steel*
Cuscinetti / *Bearings* : 2 a sfere / *2 ballraces*
Classe protezione / *Protection*: IP65
Giri al minuto / *Rpm* : Alberi/Shaft <= ø55mm → 3000 Max
Ø110mm >Alberi > ø55mm → 1500 Max
Alberi > Ø110mm → 1000Max
Coppia / *Torque:* 19Ncm→35Ncm
Momento inerzia / *Inertia:* 350→500 gcm²
Carico sull'albero / *Shaft Loading*: Axi 100N - Rad 100N

PZK : ø90mm · Shaft <=ø42mm

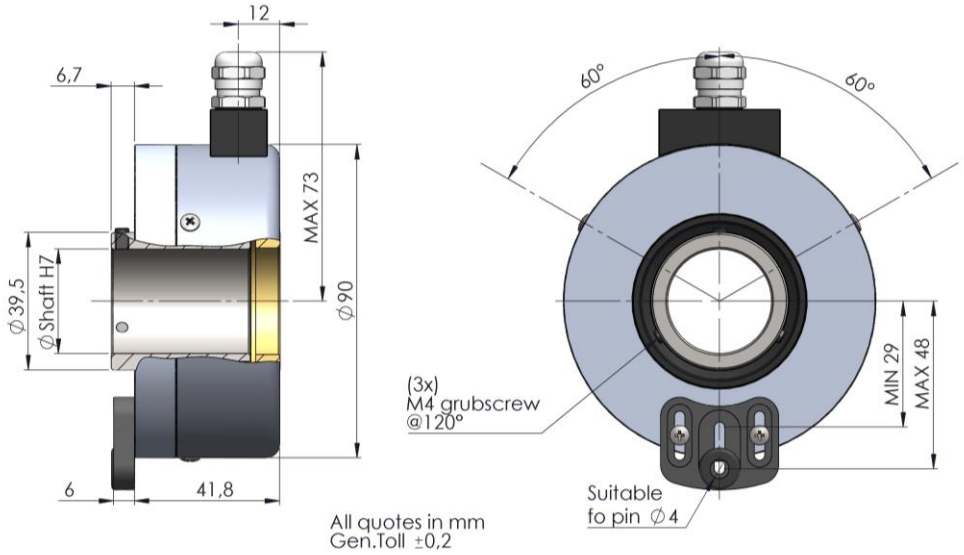
Flange 1



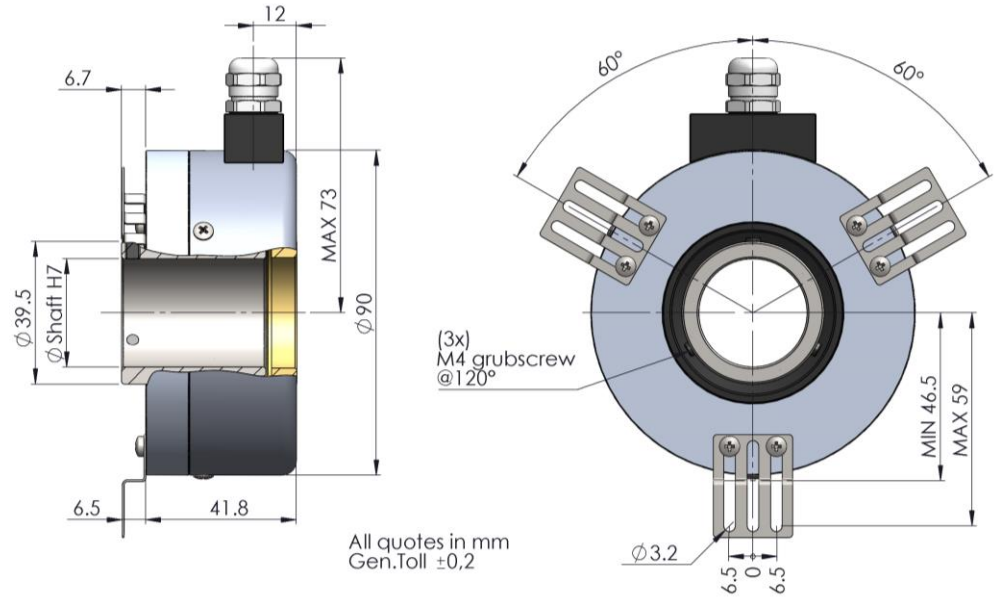
Flange 2



Flange 3

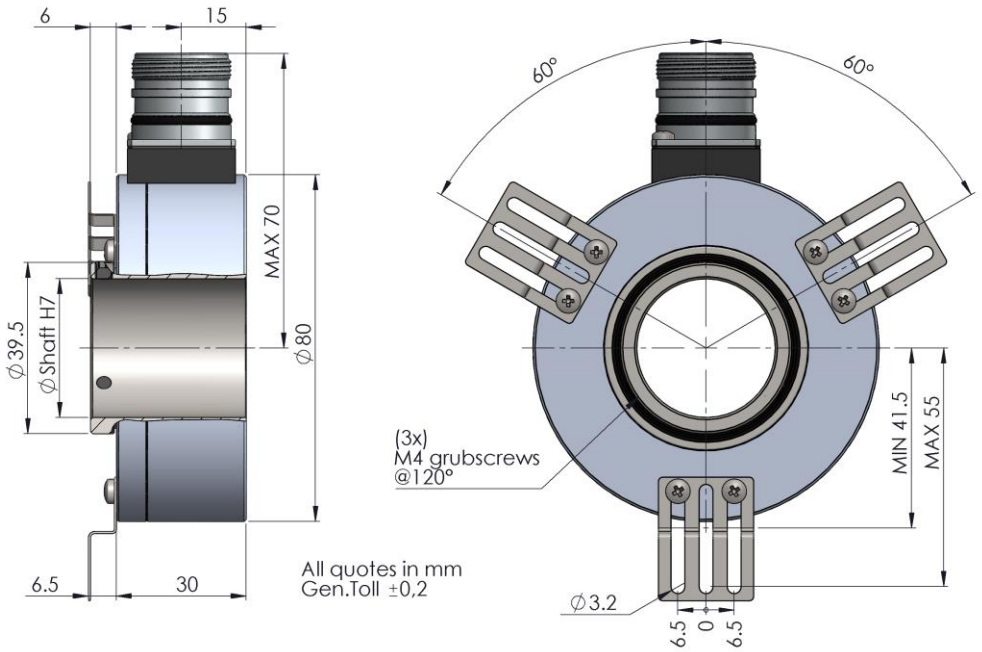


Flange 4



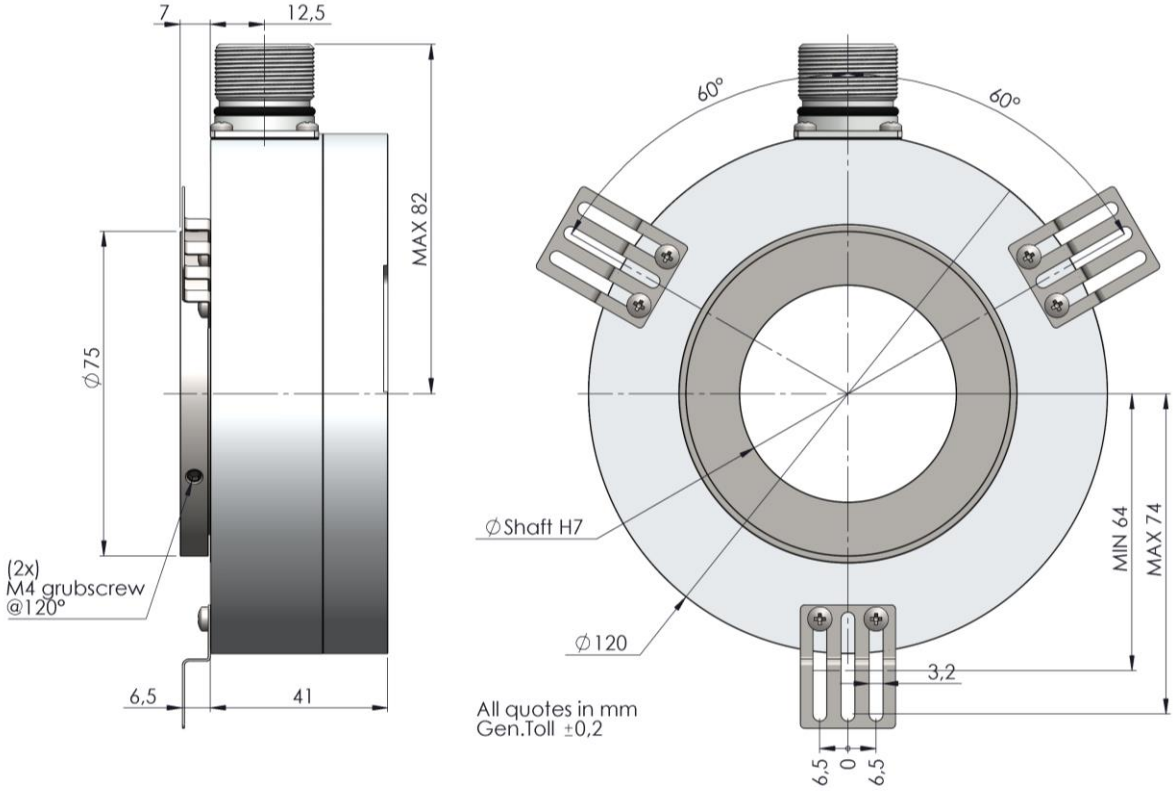
PZK : ø80mm · Shaft <=ø30mm

Flange 8



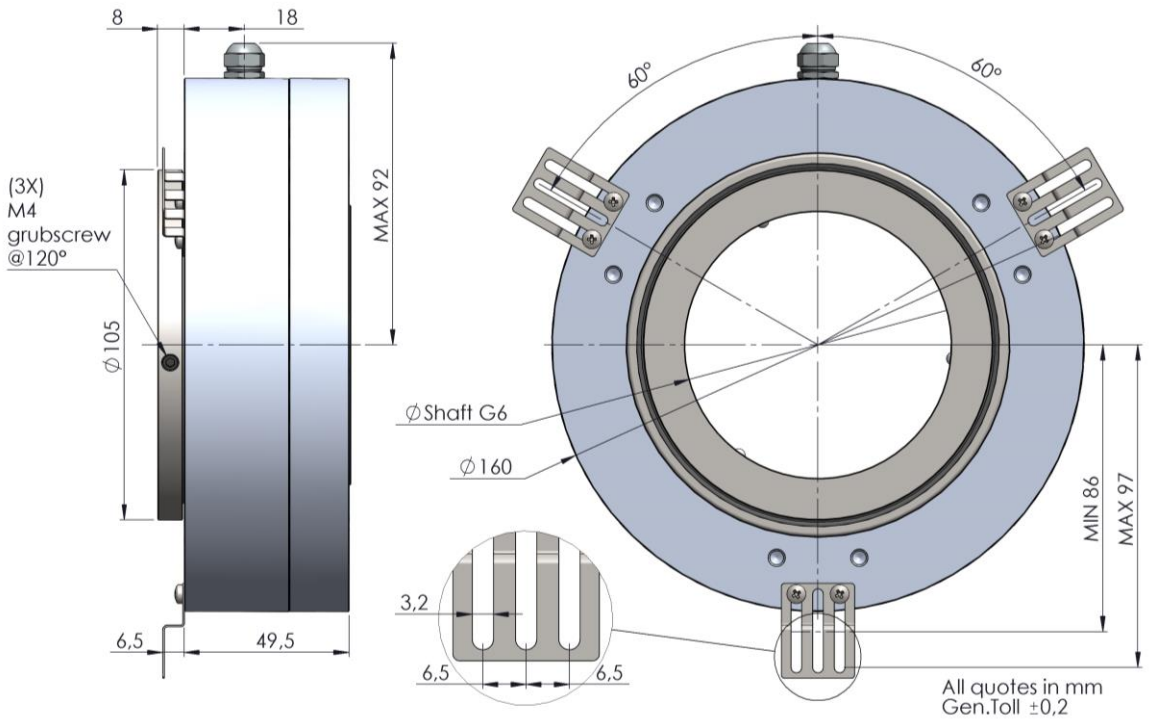
PZL : ø120mm · Shaft <=ø50mm

Flange 4



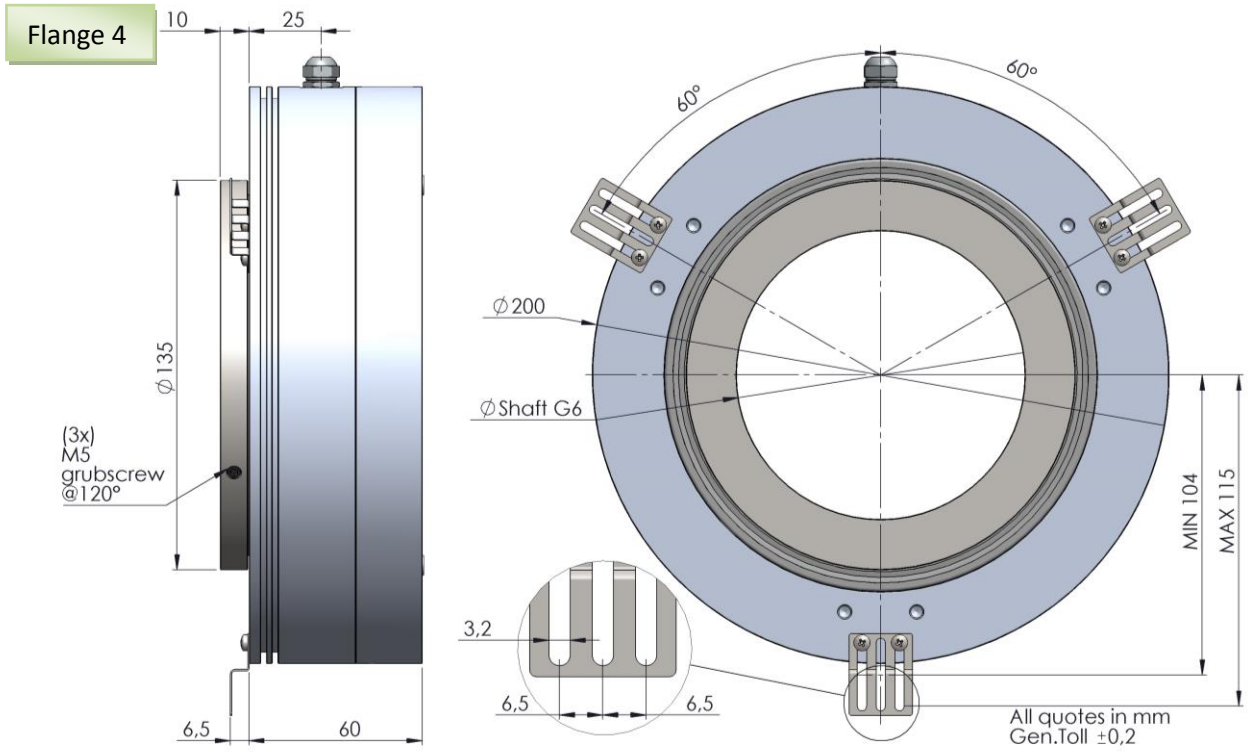
PZR : ø160mm · Shaft <=ø80mm

Flange 8

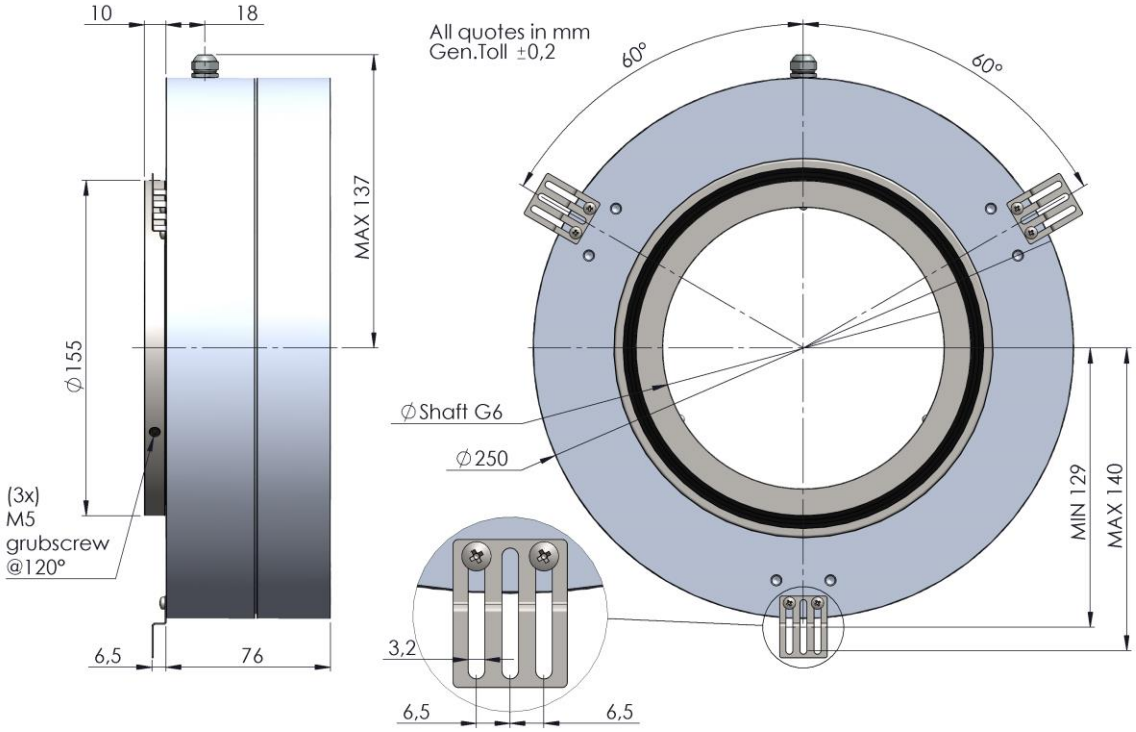


PZM : ø200mm · Shaft <=ø110mm

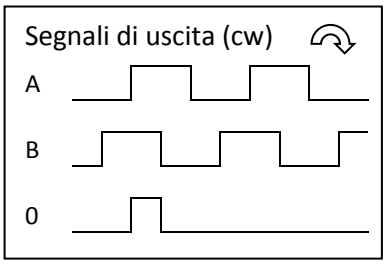
Flange 4



PZU : ø250mm · Shaft <=ø160mm



Uscita Incrementale
Incremental Outputs



Dati Elettronici / *Electronics Data*

Alimentazione / *Power Supply:* 5/28 Volt secondo il tipo di elettronica
depends on the electronics circuit
Assorbimento / *Current consumption:* 40/80mA secondo il tipo di elettronica
depends on the electronics circuit
Carico ammesso / *Load:* 40mA
Frequenza / *Frequency:* Max 300KHz
Protezioni / *Protections*: Contro corto circuito, inversione di polarità
Against short circuit, reversal polarity
Temp. di lavoro / *Operating Temp:* -20/+70°C

Connessioni / *Connections*

	0 Volt	+ Volt	A	B	— A	— B	0	— 0
Cable 5 Pole	Bianco *White*	Marrone *Brown*	Verde *Green*	Giallo *Yellow*			Grigio *Gray*	
Cable 8 Pole	Nero *Black*	Blu *Blue*	Marrone *Brown*	Beige *Beige*	Verde *Green*	Giallo *Yellow*	Rosa *Pink*	Viola *Violet*
Connector 9416	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8

Uscita Assoluta SSI
SSI Absolute Output

Dati Elettronici / *Electronics Data*

Risoluzione/*Resolution:* ST: Single turn max 13 Bit
Alimentazione / *Power Supply:* 10-28V +/- 5% (5V version in option)
Assorbimento / *Current consumption:* 160mA
Interfaccia/ Interface: SSI
Tempo/ *Time* Monoflop 20usec
Uscita / Output Data: RS422
Codice /Output Code: Gray or Binary
Temp. di lavoro / *Operating Temp:* -20/+70°C

Connessioni / *Connections*

	0 Volt	+ Volt	Data +	Data -	Clock +	Clock -	nc	U/D
Cable 8 Pole	Nero *Black*	Blu *Blue*	Marrone *Brown*	Beige *Beige*	Verde *Green*	Giallo *Yellow*	Rosa *Pink*	Viola *Violet*
Connector 9416 (M23 12 Poles CW)	1	2	3	4	5	6	7	8

Uscita Analogica
Analog Output

Dati Elettronici / *Electronics Data*

Risoluzione / *Resolution:* 13 bit
Alimentazione / *Power Supply:* 24VDC +/- 5%
Assorbimento / *Current consumption:* 160mA
Uscita / *Output* 4-20mA
Temp. di lavoro / *Operating Temp:* -20/+70°C

Connessioni / *Connections*

	0 Volt	+ Volt	Iout 4-20mA		Vout 0-10V		U/D	
Connector 9416 (M23 12 Poles CW)	1	2	3	4	5	6	7	8

Esempio d'ordine/ *Ordering code - PZK (ø90mm)*

Serie *Series (mm)*	Albero *Shaft (mm)*	Flangia *Flange*	Versione albero *Shaft Version*	*Uscite Outputs*	Connessioni *Connections*	*Opzioni Options*	/	Risoluzione *Resolution*
PZK	015 = ø15 020 = ø20 025 = ø25 L25 = ø25,4 030 = ø30 038 = ø38 040 = ø40	1 2 3 4	G = Grani frontale *Frontal screw* M = Morsetto frontale *Frontal clamp*	**Incremental Outputs** 3 = AB0 PP 5/28V * P = AB0+$\overline{AB0}$ PP 5/28V * C = AB0 OC 11/28V H = AB0 NPN 11/28V 6 = AB0+$\overline{AB0}$ LD5V 9 = AB0+$\overline{AB0}$ LD5/12V K = AB0+$\overline{AB0}$ LD15/24 (out 5V)	**Cavo / Cable** 3 = Cable Rad **M23 12 P** 5 = 9416 Rad	0 =None		**Incremental** Ex: 512 = 512 pulses 1000 = 1000 pulses
	015 = ø15 020 = ø20 025 = ø25 L25 = ø25,4 030 = ø30	8						

Esempio d'ordine/ *Ordering code - PZL (ø120mm)*

Serie *Series (mm)*	Albero *Shaft (mm)*	Flangia *Flange*	Versione albero *Shaft Version*	*Uscite Outputs*	Connessioni *Connections*	*Opzioni Options*	/	Risoluzione *Resolution*
PZL	045 = ø45 050 = ø50	4	G = Grani frontale *Frontal screw* M = Morsetto frontale *Frontal clamp*	**Incremental Outputs** 3 = AB0 PP 5/28V * P = AB0+$\overline{AB0}$ PP 5/28V * 6 = AB0+$\overline{AB0}$ LD5V 9 = AB0+$\overline{AB0}$ LD5/12V K = AB0+$\overline{AB0}$ LD15/24 (out 5V)	**Cavo / Cable** 3 = Cable Rad **M23 12 P** 5 = 9416 Rad	0 = None B = Bicoder ** (Redundant)		**Incremental** Ex: 512 = 512 pulses
				Absolute Outputs S = SSI 24Vdc A = Parallel PP 24Vdc	**Cavo / Cable** 3 = Cable Rad **M23 12 P** 5 = 9416 Rad	0 = None		**Absolute Singleturn (max13bit)** Ex: 10G =10 bit Gray 12B = 12 bit Binary
				Analog Outputs C = 4-20mA M = 4-20mA / 0-10V D = 0-10V Alimentazione/*Power Supply* 24V	**M23 12 P** 5 = 9416 Rad	0 = None Z = Preset		**Analog Outputs** **R1** = 1 rampa/giro *1 ramp/turn* **R2** = 2 rampe/giro *2 ramp/turn* **R4** = 4 rampe/giro *4 ramp/turn*

Esempio d'ordine/ *Ordering code PZR(ø160mm) – PZM (ø200mm) - PZU(ø250mm)*

Serie *Series (mm)*	Albero *Shaft (mm)*	Flangia *Flange*	Versione albero *Shaft Version*	*Uscite Outputs*	Connessioni *Connections*	*Opzioni Options*	/	Risoluzione *Resolution*
PZR	060 = ø60 075 = ø75 080 = ø80	4	G = Grani frontale *Frontal screw* M = Morsetto frontale *Frontal clamp*	**Incremental Outputs** 3 = AB0 PP 5/28V * P = AB0+$\overline{AB0}$ PP 5/28V * 6 = AB0+$\overline{AB0}$ LD5V 9 = AB0+$\overline{AB0}$ LD5/12V K = AB0+$\overline{AB0}$ LD15/24 (out 5V)	**Cavo / Cable** 3 = Cable Rad **M23 12 P** 5 = 9416 Rad	0 = None B = Bicoder ** (Redundant)		**Incremental** Ex: 512 = 512 pulses 1000 = 1000 pulses
PZM	085 = ø85 100 = ø100 110 = ø110							
PZU	150 = ø 150							

* **= Outputs PP**: *outputs levels compatible TTL · Low level output <0.5V · High level output > +VCC-1,9V*
** = **Bicoder** *encoder has two separate electronics, due connectors or cables (located at 180°) and same number of pulses.*