

**CARATTERISTICHE MECCANICHE - MECHANICAL SPECIFICATIONS**

Dimensioni - Dimensions: vedi disegni - see drawings

Albero - Shaft: acciaio inox - stainless steel

Carico sull'albero - Shaft loading: assiale - axial: 200 N; radiale - radial 200 N

Numero giri - Shaft rotational speed: 10.000 RPM per brevi periodi - to short cycle time; 6.000 RPM continui - continuous; 2.000 RPM con asse stagno - with proof shaft

Vita dei cuscinetti - Bearings life: 5 x 10<sup>6</sup> giri (minimo) - rev. min.

Peso - Weight: ~ 0,52 kg

**CARATTERISTICHE ELETTRICHE - ELECTRICAL SPECIFICATIONS**

Codici STD - STD codes: GRAY - BINARIO - BCD - ANALOGICO; GRAY - BINARY - BCD - ANALOG

Frequenza in uscita - output frequency: da 0 a 20 KHz (L.S.B. senza errore); from 0 to 20 KHz (L.S.B. without error)

Protezione - Protection: contro inversione di polarità (escluso 5Vcc); against inversion of polarity (except 5Vcc)

**MATERIALI UTILIZZATI - MATERIALS**

Corpo - Flange: in alluminio anticorrosivo - aluminium non corroding

Custodia - Housing: Alluminio verniciato con trattamento termico a 180° C; Aluminium painted with inhibiting treatment 180° C

**CARATTERISTICHE AMBIENTALI - ENVIRONMENTAL SPECIFICATIONS**

Temperatura di lavoro - Operating temperature range: -10°C + +70°C

Temperatura di stoccaggio - Storage temperature range: -30°C + +80°C

Umidità relativa - Relative humidity: 98% RH senza condensazione - RH without condensing

Vibrazioni - Vibrations: 10 g (da 10 a 2.000 Hz) - (From 10 up to 2.000 Hz)

Schock - Shock: 20 g (per 11 ms) - (for 11 ms)



**CODICE DI ORDINAZIONE - ORDERING CODE**

**TKC50** . **XX** . **XXXX** . **XXXX** . **XXXXX** . **XX** . **XXXX** . **XXnn** . **XX** . **XXXX** . **Xnnn**

**MONTAGGIO - ASSEMBLY**

F Flangia Quadra - Square flange  
SG Servo-Graffe - servo-clip

**Albero - Shaft**

Ø 6 mm  
Ø 8 mm  
Ø 9,52 mm  
Ø 10 mm

**Custom**

**CODICE - CODE**

**A** Uscita analogica (1024/360°-180°-90°-45°)  
Analog output (1024/360°-180°-90°-45°)

**B** codice Binario naturale Binary code natural

**B/0** codice Binario troncato centro Binary code centrally cut

**B/7** codice Binario /eccesso (18) Binary code/exc (18)

**B/14** codice Binario /eccesso (36) Binary code/exc (36)

**B/19** codice Binario /eccesso (90) Binary code/exc (90)

**B/28** codice Binario /eccesso (72) Binary code/exc (72)

**B/38** codice Binario /eccesso (180) Binary code/exc (180)

**B/76** codice Binario /eccesso (360) Binary code/exc (360)

**B/152** codice Binario /eccesso (720) Binary code/exc (720)

**B/304** codice Binario /eccesso (1440) Binary code/exc (1440)

**D** codice BCD (100+720) BCD code (100+720)

**E** codice Gray Exc 3 (100+720) Excess 3 Gray code (100+720)

**G** codice Gray naturale Natural Gray code

**G/0** codice Gray troncato centr Centrally cutted Gray code

**G/7** codice Gray /eccesso (18) Gray code/exc (18)

**G/14** codice Gray /eccesso (36) Gray code/exc (36)

**G/19** codice Gray /eccesso (90) Gray code/exc (90)

**G/28** codice Gray /eccesso (72) Gray code/exc (72)

**G/38** codice Gray /eccesso (180) Gray code/exc (180)

**G/76** codice Gray /eccesso (360) Gray code/exc (360)

**G/152** codice Gray /eccesso (720) Gray code/exc (720)

**G/304** codice Gray /eccesso (1440) Gray code/exc (1440)

**Alimentazione (Vdc) - Voltage supply**

**5** +5 V ±5 % ; 11/30 +11V +30 V  
**18/30** +18V +30 V solo analogico - only analog

**Grado di protezione - Protection class**

**K1** IP 55 (En60529) solo con D25 - with D25 only  
**K4** IP 64 (En60529)  
Con S13D solo K4- With S13D only K4

**IMPULSI GIRO - PULSE RATE**

16	16 passi/giro G;B	steps/turn G;B	360	360 passi/giro G;B	steps/turn G;B
18	18 passi/giro G;B	steps/turn G;B	400	400 passi/giro G;B	steps/turn G;B
32	32 passi/giro G;B	steps/turn G;B	500	500 passi/giro G;B	steps/turn G;B
36	36 passi/giro G;B	steps/turn G;B	512	512 passi/giro G;B	steps/turn G;B
64	64 passi/giro G;B	steps/turn G;B	720	720 passi/giro G;B	steps/turn G;B
90	90 passi/giro G;B	steps/turn G;B	900	900 passi/giro G;B	steps/turn G;B
100	100 passi/giro G;B	steps/turn G;B	1000	1000 passi/giro G;B	steps/turn G;B
128	128 passi/giro G;B	steps/turn G;B	1024	1024 passi/giro G;B	steps/turn G;B
180	180 passi/giro G;B	steps/turn G;B	1440	1440 passi/giro G;B	steps/turn G;B
200	200 passi/giro G;B	steps/turn G;B	2000	2000 passi/giro G;B	steps/turn G;B
250	250 passi/giro G;B	steps/turn G;B	2048	2048 passi/giro G;B	steps/turn G;B
256	256 passi/giro G;B	steps/turn G;B			

18	18 passi/giro G/7;B/7	steps/turn G/7;B/7	90	90 passi/giro G/0;B/0	steps/turn G/0;B/0
36	36 passi/giro G/14;B/14	steps/turn G/14;B/14	180	180 passi/giro G/0;B/0	steps/turn G/0;B/0
72	72 passi/giro G/28;B/28	steps/turn G/28;B/28	250	250 passi/giro G/0;B/0	steps/turn G/0;B/0
90	90 passi/giro G/19;B/19	steps/turn G/19;B/19	360	360 passi/giro G/0;B/0	steps/turn G/0;B/0
180	180 passi/giro G/38;B/38	steps/turn G/38;B/38	500	500 passi/giro G/0;B/0	steps/turn G/0;B/0
360	360 passi/giro G/76;B/76	steps/turn G/76;B/76	720	720 passi/giro G/0;B/0	steps/turn G/0;B/0
720	720 passi/giro G/152;B/152	steps/turn G/152;B/152	1000	1000 passi/giro G/0;B/0	steps/turn G/0;B/0
1440	1440 passi/giro G/304;B/304	steps/turn G/304;B/304	1440	1440 passi/giro G/0;B/0	steps/turn G/0;B/0

**CIRCUITI DI USCITA - OUTPUT CIRCUITS**

<b>00</b> TTL log+ (solo 5V - 5 V only)	<b>10</b> NPN 40 mA Open Collector log+
<b>01</b> TTL log- (solo 5V - 5 V only)	<b>11</b> NPN 40 mA pull-up log+ (solo 11/30V - 11/30V only)
<b>02</b> TTL 3-state log+ (solo 5V - 5 V only)	<b>12</b> NPN 40 mA Open Collector log-
<b>03</b> TTL 3-state log- (solo 5V - 5 V only)	<b>13</b> NPN 40 mA pull-up log- (solo 11/30V - 11/30V only)
<b>20</b> TTL log+ Latch (solo 5V - 5V only)	<b>60</b> NPN open collector + latch
<b>51</b> TTL log- Latch (solo 5V - 5V only)	<b>61</b> NPN 40 mA pull-up log+ Latch (solo 11/30V - 11/30V only)
<b>52</b> TTL 3-state log+ Latch (solo 5V - 5V only)	<b>62</b> NPN 40 mA Open Collector log-
<b>53</b> TTL 3-state log- Latch (solo 5V - 5V only)	<b>63</b> NPN 40 mA pull-up log- Latch (solo 11/30V - 11/30V only)
<b>21</b> PNP 100 mA Open Collector log+	<b>31</b> Uscita analogica 4+20 mA (solo 18/30V)
<b>22</b> PNP 100 mA pull-down log+ (solo 11/30V - 11/30V only)	Analog output 4+20 mA (18/30V only)
<b>23</b> NPN 100 mA Open Collector log-	<b>32</b> Uscita analogica 1+5 V (solo 18/30V)
<b>24</b> NPN 100 mA pull-up log- (solo 11/30V - 11/30V only)	Analog output 1+5 V (18/30V only)
<b>30</b> Push Pull protetto cc (solo 11/30V)	<b>33</b> Uscita analogica 0+10 V (solo 18/30V)
Push Pull cc protect (11/30V only)	Analog output 0+10 V (18/30V only)
<b>70</b> PNP 100 mA Open Collector log+ Latch	<b>73</b> NPN 100 mA pull-up log- Latch
<b>71</b> PNP 100 mA pull-down log+ Latch (solo 11/30V-11/30V only)	<b>80</b> Push Pull protetto cc Latch (solo 11/30V-11/30V only)
<b>72</b> NPN 100 mA Open Collector log Latch	

**S13D** SSI 13 bit allin destra (solo 11/30V) - SSI 13 bit right alignment (11/30V only)

**CONNESSIONI ELETTRICHE - ELECTRICAL CONNECTIONS**

**P** pressacavo assiale con cavo da 1 a 6 m; on axial cable gland with cable 1 + 6 m long

**PL** pressacavo radiale con cavo da 1 a 6 m; radial cable gland with cable 1 + 6 m long

**S 07** connettore circolare militare assiale a 7 poli; on 7 pins axial MIL connector

**S 10** connettore circolare militare assiale a 10 poli; on 10 pins axial MIL connector

**S 26** connettore circolare militare assiale a 26 poli; on 26 pins axial MIL connector

**D 25** connettore submin. assiale a 25 poli; on 25 pins axial DB25 connector

**SL 07** connettore circolare militare radiale a 7 poli; on 7 pins radial MIL connector

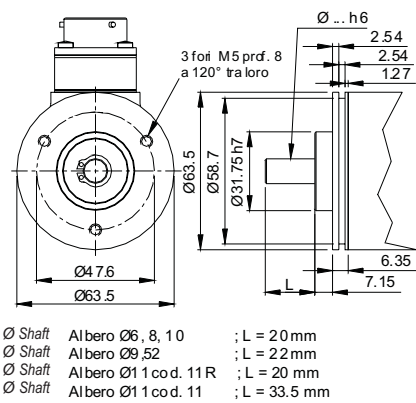
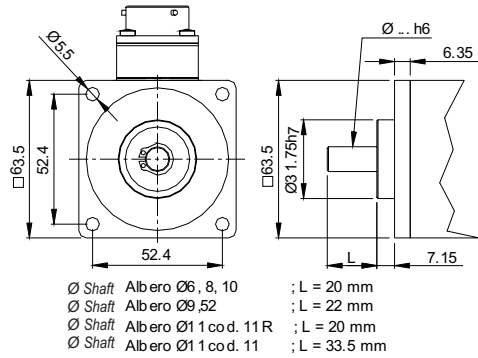
**SL 10** connettore circolare militare radiale a 10 poli; on 10 pins radial MIL connector

**SL 26** connettore circolare militare radiale a 26 poli; on 26 pins radial MIL connector

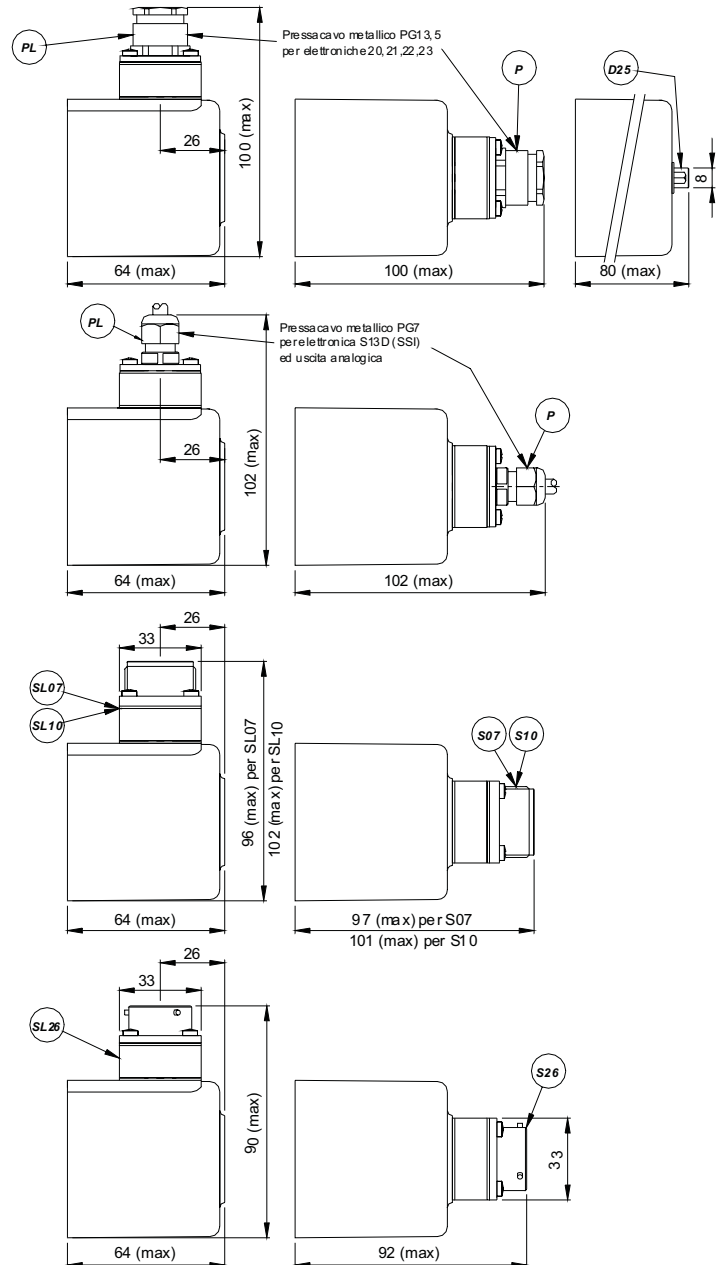
nn Lunghezza cavo - Cable length (es. PL10 = 1 m ... PL60 = 6 m)

100	100 passi/giro E;D	steps/turn E;D	250	250 passi/giro E;D	steps/turn E;D
360	360 passi/giro E;D	steps/turn E;D	400	400 passi/giro E;D	steps/turn E;D
500	500 passi/giro E;D	steps/turn E;D	512	512 passi/giro E;D	steps/turn E;D
720	720 passi/giro E;D	steps/turn E;D	900	900 passi/giro E;D	steps/turn E;D
1000	1000 passi/giro E;D	steps/turn E;D	1000	1000 passi/giro E;D	steps/turn E;D
1440	1440 passi/giro E;D	steps/turn E;D	1440	1440 passi/giro E;D	steps/turn E;D
2000	2000 passi/giro E;D	steps/turn E;D			

**MONTAGGIO MECCANICO  
MECHANICAL ASSEMBLY**



**CONNESSIONI ELETTRICHE  
ELECTRICAL CONNECTIONS**



**VALORI STROBE - STROBE VALUE**

S=	Strobe custom	Strobe custom	S 200	Strobe 20 $\mu$ s	Strobe 20 $\mu$ s
I 200	Strobe invertito 20 $\mu$ s	Inverted strobe 20 $\mu$ s	S 500	Strobe 50 $\mu$ s	Strobe 50 $\mu$ s
I 500	Strobe invertito 50 $\mu$ s	Inverted strobe 50 $\mu$ s	S 101	Strobe 100 $\mu$ s	Strobe 100 $\mu$ s
I 101	Strobe invertito 100 $\mu$ s	Inverted strobe 100 $\mu$ s	S 201	Strobe 200 $\mu$ s	Strobe 200 $\mu$ s
I 201	Strobe invertito 200 $\mu$ s	Inverted strobe 200 $\mu$ s	S 501	Strobe 500 $\mu$ s	Strobe 500 $\mu$ s
I 501	Strobe invertito 500 $\mu$ s	Inverted strobe 500 $\mu$ s	S 102	Strobe 1 ms	Strobe 1 ms
I 102	Strobe invertito 1 ms	Inverted strobe 1 ms	S 202	Strobe 2 ms	Strobe 2 ms
I 202	Strobe invertito 2 ms	Inverted strobe 2 ms	S 502	Strobe 5 ms	Strobe 5 ms
I 502	Strobe invertito 5 ms	Inverted strobe 5 ms	S 103	Strobe 10 ms	Strobe 10 ms
I 103	Strobe invertito 10 ms	Inverted strobe 10 ms	S 203	Strobe 20 ms	Strobe 20 ms
I 203	Strobe invertito 20 ms	Inverted strobe 20 ms	S 503	Strobe 50 ms	Strobe 50 ms
I 503	Strobe invertito 50 ms	Inverted strobe 50 ms	S 104	Strobe 100 ms	Strobe 100 ms
I 104	Strobe invertito 100 ms	Inverted strobe 100 ms	S 204	Strobe 200 ms	Strobe 200 ms
I 204	Strobe invertito 200 ms	Inverted strobe 200 ms			