

CARATTERISTICHE MECCANICHE - MECHANICAL SPECIFICATIONS

Dimensioni - Dimensions: vedi disegni - see drawings
 Albero - Shaft: acciaio inox - stainless steel
 Carico sull'albero - Shaft loading: assiale - axial: 25 N; radiale - radial 25 N
 Numero giri - Shaft rotational speed: 6.000 RPM continui - continuous
 Vita dei cuscinetti - Bearings life: 10⁶ giri (minimo) - rev. min.
 Peso - Weight: ~1,0 Kg.

CARATTERISTICHE ELETTRICHE - ELECTRICAL SPECIFICATIONS

Codici STD - STD codes: GRAY - BINARIO - BCD - ECCESSO 3 - ANALOGICO; GRAY - BINARIO - BCD - EXCESS 3 - ANALOG
 Frequenza in uscita - output frequency: da 0 a 20 KHz (L.S.B. senza errore); from 0 to up 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 anodizzato - aluminium non corroding passived
 Custodia - Housing: in alluminio anticorrosivo anodizzato - aluminium non corroding passived

CARATTERISTICHE AMBIENTALI - ENVIRONMENTAL SPECIFICATIONS

Temperatura di lavoro - Operating temperature range: -20°C ÷ +45°C
 Temperatura di stoccaggio - Storage temperature range: -30°C ÷ +85°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)
 Shock - Shock: 20 g(per 11 ms) - (for 11 ms)



ATEX



CODICE DI ORDINAZIONE - ORDERING CODE

TIAEEX70WP X 8192 4096 G XXXXX K4 XXX XXnn XXXX XXX XXXX Xnnn Custom

MONTAGGIO - ASSEMBLY

M Fissaggio con molle antirotazione
 Flange with antirotation springs
S Standard senza molle antirotazione
 Standard without antirotation springs

IMPULSI GIRO - PULSE RATE

8192 programmabile da 2 a 8192 passi/giro
 From 2 to up 8192 steps/turn programmable

NUMERO GIRI - NUMBER OF TURN

4096 programmabile da 1 a 4096 passi/giro
 From 1 to up 4096 steps/turn programmable

CODICE - CODE

G codice Gray naturale Natural Gray code
Gray - Binary - BCD Programmabile - Programmable

Alimentazione (Vdc) - Voltage supply

5 +5 V ±5 %
11/30 +11V ±30 V

Grado di protezione - Protection class

K4 IP 64 (EN60529)

Albero cavo - Hollow shaft

8 Ø 8 mm
10 Ø 10 mm
11 Ø 11 mm
12 Ø 12 mm
12,7 Ø 12,7 mm
15 Ø 15 mm

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
RA raccordo 1/2" GAS maschio assiale con cavo da 1 a 6 m;
 on axial tap nipple 1/2" GAS with cable 1 ÷ 6 m long
RL raccordo 1/2" GAS maschio radiale con cavo da 1 a 6 m;
 on radial tap nipple 1/2" GAS with cable 1 ÷ 6 m long
GA raccordo 1/2" GAS femmina assiale con cavo da 1 a 6 m;
 on axial female nipple 1/2" GAS with cable 1 ÷ 6 m long
GL raccordo 1/2" GAS femmina radiale con cavo da 1 a 6 m;
 On radial female nipple 1/2" GAS with cable 1 ÷ 6 m long
nn Lunghezza cavo - Cable length (es. PL10 = 1 m. ... PL60 = 6 m)

OPZIONI - OPTIONS

| | | | |
|-------------------------------|-------------|--------------------------------|--------------------|
| U Up/Down NPN | Up/Down NPN | M Enable (ingresso) | Enable (input) |
| W Up/Down PNP | Up/Down PNP | V Segnale di zero | Zero signal |
| L Latch NPN | Latch NPN | Z Zero Set NPN | Zero Set NPN |
| P Latch PNP | Latch PNP | T Zero Set PNP | Zero Set PNP |
| E Parità Even (pari) | Even parity | S Strobe (vedi tabella) | Strobe (see table) |
| O Parità Odd (dispari) | Odd parity | | |

VALORI STROBE - STROBE VALUE

| | | |
|----------------------------|----------------------------|----------------------------|
| S= Strobe custom | S 501 Strobe 500 µs | S 203 Strobe 20 ms |
| S 200 Strobe 20 µs | S 102 Strobe 1 ms | S 503 Strobe 50 ms |
| S 500 Strobe 50 µs | S 202 Strobe 2 ms | S 104 Strobe 100 ms |
| S 101 Strobe 100 µs | S 502 Strobe 5 ms | S 204 Strobe 200 ms |
| S 201 Strobe 200 µs | S 103 Strobe 10 ms | |

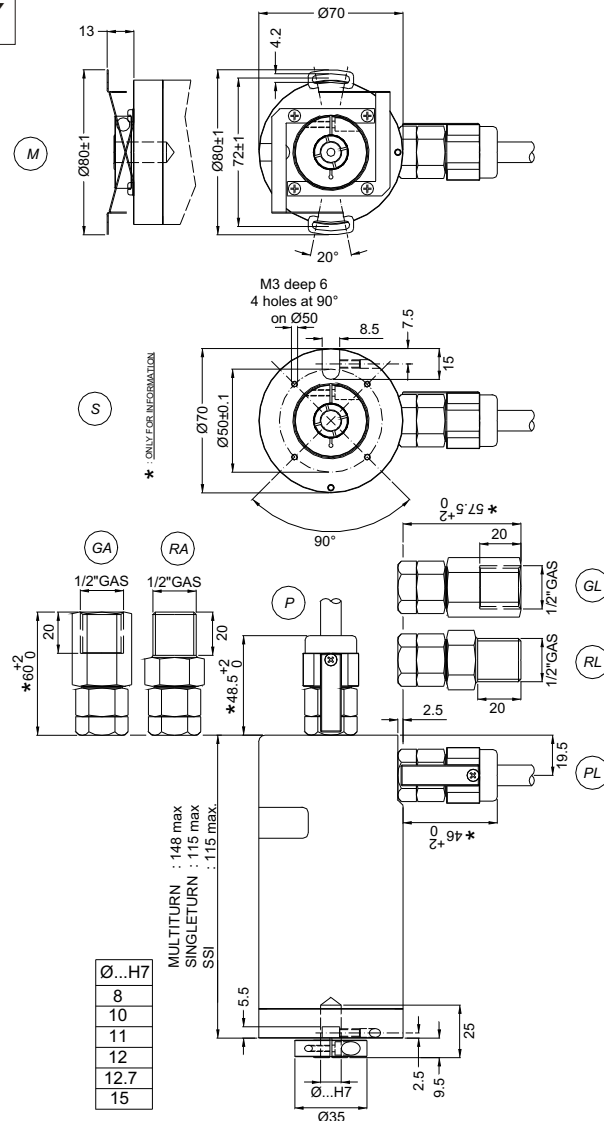
INTERFACCIA DI PROGRAMMAZIONE - SERIAL INTERFACE

| | |
|---|--------------------------|
| 232 Interfaccia programmazione RS232 | Program interface RS 232 |
| 485 Interfaccia programmazione RS485 | Program interface RS 485 |

CIRCUITI DI USCITA - OUTPUT CIRCUITS

| | |
|---|---|
| 20 PNP 100 mA Open Collector log+ | PNP 100 mA Open Collector log+ |
| 21 PNP 100 mA pull-down log+ (solo 11/30V) | PNP 100 mA pull-down log+ (11/30V only) |
| 22 NPN 100 mA Open Collector log- | NPN 100 mA Open Collector log- |
| 23 NPN 100 mA pull-up log- (solo 11/30V) | NPN 100 mA pull-up log- (11/30V only) |
| 30 Push Pull protetto cc (solo 11/30V) | Push Pull cc protect (11/30V only) |
| 141 RS422 Protocollo MODO 1 (solo 11/30V) | RS422 Protocol MODE 1 (11/30V only) |
| S13C SSI 13 bit allin centro (solo 11/30V) | SSI 13 bit center alignment (11/30V only) |
| S21C SSI 21 bit allin centro (solo 11/30V) | SSI 21 bit center alignment (11/30V only) |
| S21D SSI 21 bit allin destra (solo 11/30V) | SSI 21 bit right alignment (11/30V only) |
| S25C SSI 25 bit allin centro (solo 11/30V) | SSI 25 bit center alignment (11/30V only) |
| S25D SSI 25 bit allin destra (solo 11/30V) | SSI 25 bit right alignment (11/30V only) |

MONTAGGIO MECCANICO
MECHANICAL ASSEMBLY



Execution according to:

ATEX EN 50021
UL1604
CSA 22.2 N. 213 M1987.

Certification code **EEx-nA IIC T6** means:

- **EEx** : means that the device has been certified according to the ATEX and UL/CSA safety rules;
- **nA** : n = type of protection "n" (EN50021); **A** = non sparking apparatus
- **II** : Device certified for operation in potentially explosive areas except the mines in which grisou gas is present;
- **C** : Engineered with an experimental interstice with the maximum security (MESG);
- **T6** : Maximum body surface temperature 85 °C as per En50014.