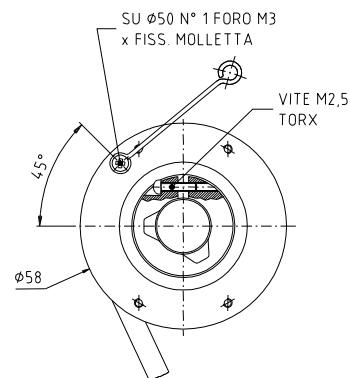
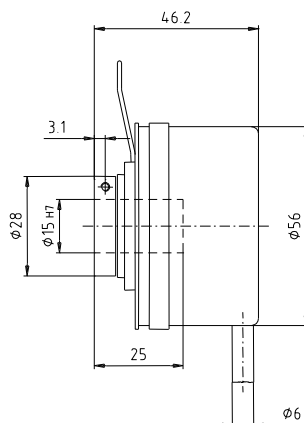


Encoder incrementale ad albero cavo - Hollow shaft incremental encoder - Type ERN 4xx**New code and driver****Alimentazione - Supply****Uscita - Output****ERN 420**

4,5 ... 5,5 Vdc

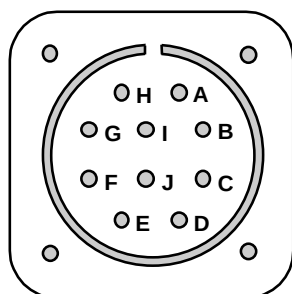
5 V TTL (Line driver RS 422)

ERN 480

4,75...5,5 Vdc

1 V_{PP} sinusoidal**Order example : ERN 420-1024: Encoder 1024ppr 5V TTL**

Numero impulsi disponibili – Available Line counts	ERN-420, 1024ppr	
Numero impulsi disponibili – Available Line counts	ERN-480, 1024 or 2048 or 4096 SinCos	
Segnali – Signals	2 channels + marker + complementary (A A-, B B-, Z Z-)	
Max. corrente senza carico – Current without load 5 Vdc	mA	120
Corrente senza carico – Current without load 24 Vdc	mA	100
Frequenza max. – Max. freq.	kHz	300 TTL, 180kHz 1V p/p
Grado di protezione – Protection deg.	IP	67 at housing, 64 at shaft inlet
Velocità continuativa – Continuous speed	rpm	6000
Velocità Massima – Max. speed	rpm	9000 for short duty (max 60s every 10min)
Peso – Weight	kg	0.3
Albero foro cieco – bottomed shaft	mm	Ø 15
Inerzia – Inertia	gcm ²	43
Massima acc. Angolare – Max. angular acc.	rad / s ²	10 ⁵
Temperatura di esercizio – Working temperature	°C	-40 ... + 100 (-40 ... + 70 for ERN 460)
Temperatura di immagaz. – Storage temp.	°C	-30 ... 80°C
Resistenza agli urti - Shock (DIN IEC 68 2-27)	g / ms	1000 m/s ²
Vibrazioni max. – vibration (DIN IEC 68 2-6)	g / Hz	300 m/s ²
Cavo di collegamento – Connection cable	m	0,5

CONNESSIONI – CONNECTION

PIN	ERN 420	ERN 480	colore cavo cable color
	TTL – HTL signal	Sinus 1Vp/p	
A	A (ch1)	S1	Marrone - Brown
B	Z (ch0)	S0	Rosso - Red
C	B (ch2)	S2	Grigio - Gray
D	Diagnostico/Fault Signal	--	Viola - Violet
E	SHIELD	SHIELD	Bianco/Marrone – White/Brown
F	+...Vdc	+...Vdc	Marrone/Verde + Blue - Brown /Green + Blue
G	0V...(GND)	0V...(GND)	Bianco/Verde + Bianco – White/Green + White
H	A- (ch1-)	S1-	Verde - Green
I	Z- (ch0-)	S0-	Nero - Black
J	B- (ch2-)	S2-	Rosa - Pink