



elap MEM-BUS PROFINET

GUIDA RAPIDA



CERTIFICATE NO. E510647

PROFILO ENCODER MEM-BUS PROFINET

- Profilo Encoder V4.1 versione 3.162
- Classe di applicazione 3 – 4
- Modalità di trasmissione RT real-time e IRT isocrona real-time
- Parametrizzazione tramite comunicazione TCP/IP
- Telegrammi standard 81, 82, 83, 84 –Telegramma utente 860

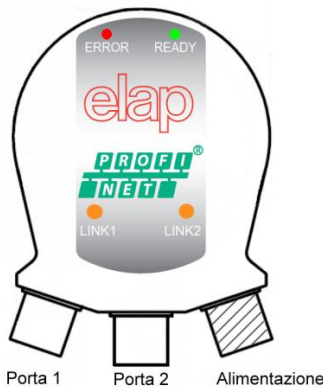
CARATTERISTICHE MECCANICHE ED AMBIENTALI

MEM-Bus	620/520/540	440/450
• Materiali: custodia albero	Alluminio Acciaio inox	
• Peso	500 g circa	
• Foro albero/giunto	6, 8, 10 mm	8, 10, 12, 14, 15 mm
• Giri/minuto	6000	
• Coppia avviamento	≤0,8 Ncm	
• Momento di inerzia	≤25 g cm ²	
• Carico amnesso	80 N assiale/100 N radiale	
• Resistenza alle vibrazioni (10÷2000 Hz)	100 m/sec ²	
• Resistenza all'urto (11 ms)	50 G	
• Grado di protezione	IP67 - lato albero IP65	
• Temperatura di esercizio	-30 ÷ 70°C	
• Temperatura di immagazzinaggio	-30 ÷ 85°C	

CARATTERISTICHE ELETTRICHE E FUNZIONALI

• Funzionamento	Magnetico
• Risoluzione/giro	8192 posizioni/giro - 13 bit
• Numero giri multigiro	65536 / 16 bit
• Tempo di inizializzazione	< 1 s
• Mantenimento dato	>20 anni ad albero fermo in assenza di alimentazione
• Bus di campo	PROFINET
• Alimentazione	10 ÷ 30 Vdc Protezione all'inversione di polarità
• Assorbimento	2,5 W
• Precisione	± ½ LSB
• Tipi di connessione	2 connettori M12 femmina D-coding +1 connettore M12 maschio
• Immunità alle interferenze	EN 61000-6-2
• Interferenze emesse	EN61000-6-4

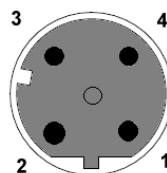
COLLEGAMENTI



Posizione connettori e LED

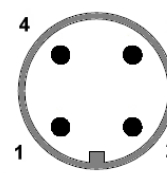
Connettori PROFINET porta 1 e porta 2 Tipo M12 femmina D code

Pin	Segnale
1	Tx +
2	Rx +
3	Tx -
4	Rx -



CONNETTORE ALIMENTAZIONE Tipo M12 maschio A code

Pin	Segnale
1	+ Valim. (10 - 30 V DC)
2	N.C.
3	GND (0V)
4	N.C.



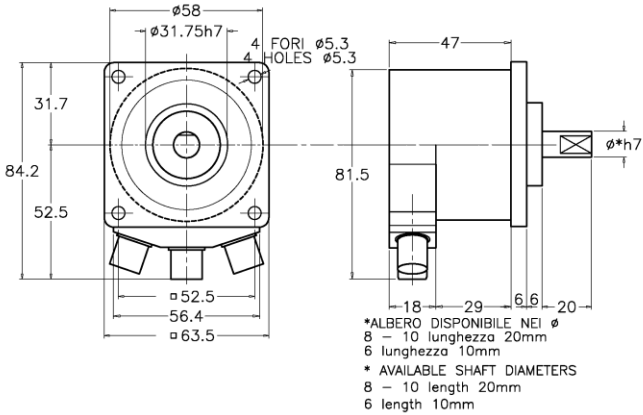
RIFERIMENTI

MANUALI, SOFTWARE e DISEGNI DIMENSIONALI scaricabili all'indirizzo:

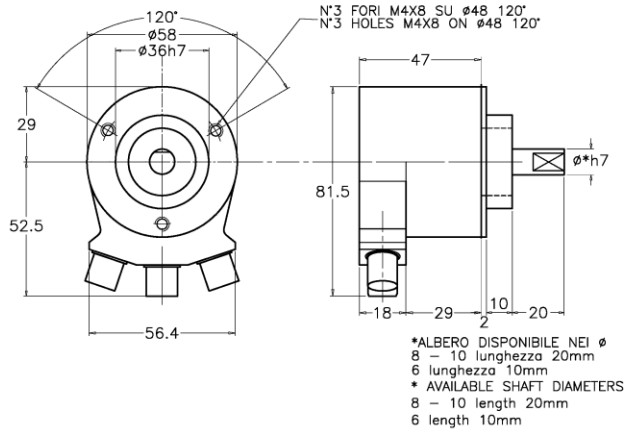
<https://www.elap.it/encoder-assoluti/encoder-mem-bus-profinet/>



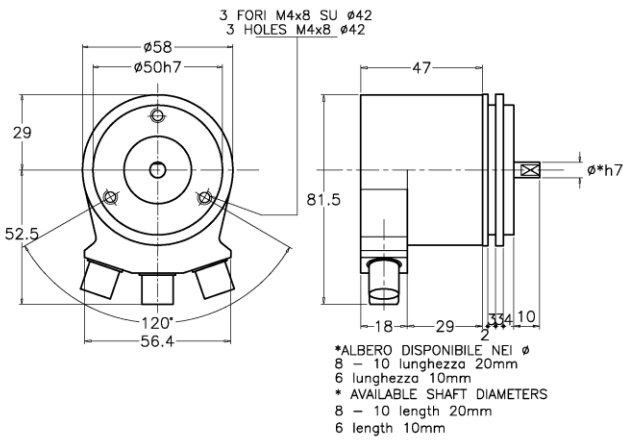
MEM620Bus



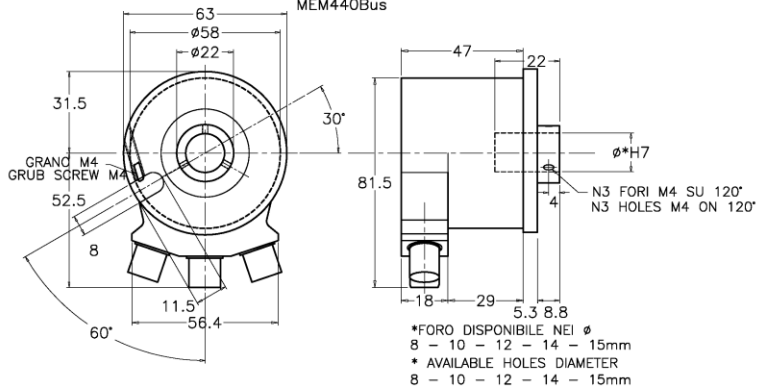
MEM540Bus



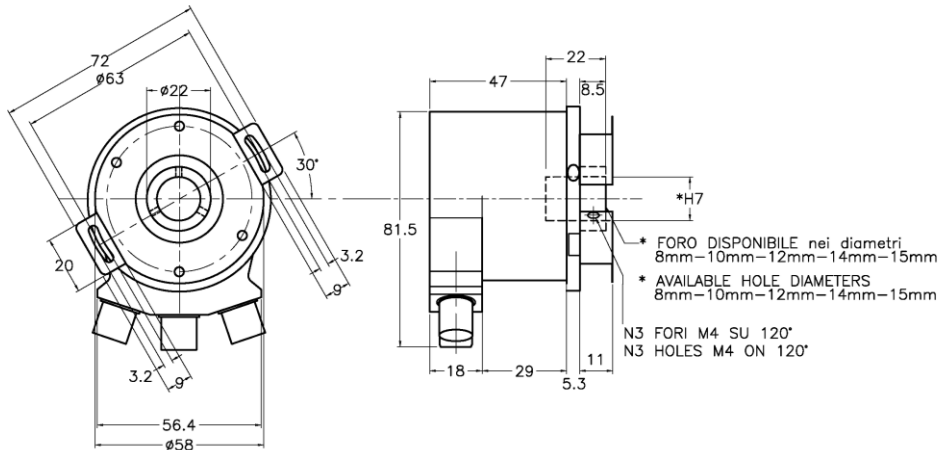
MEM520Bus

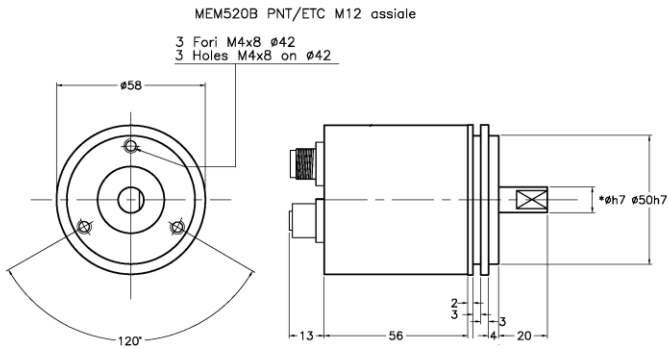


MEM440Bus

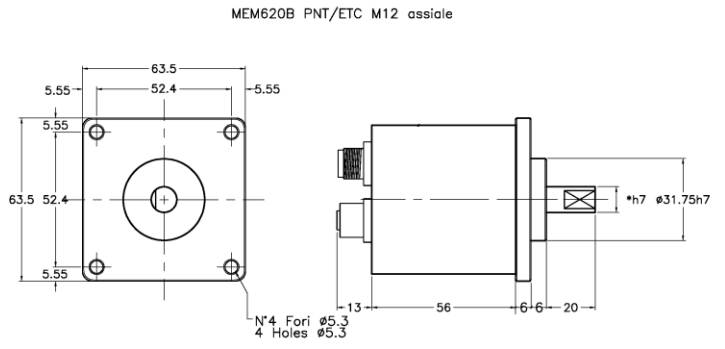


MEM450Bus

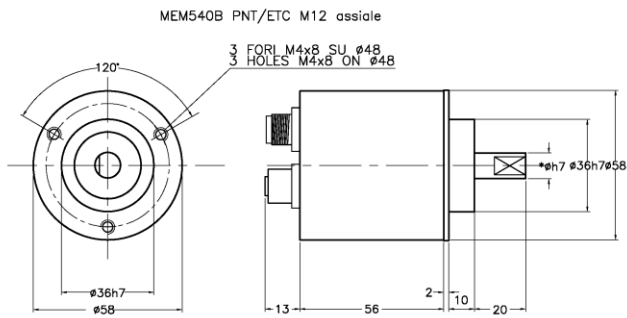




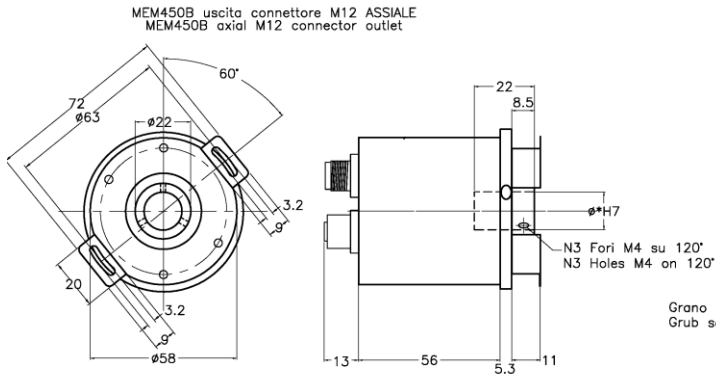
- * ALBERO DISPONIBILE
Nei diametri 8mm-10mm
diametro 6mm lunghezza 10mm
- * AVAILABLE SHAFT DIAMETERS
8mm-10mm
shaft diameter 6mm length 10mm



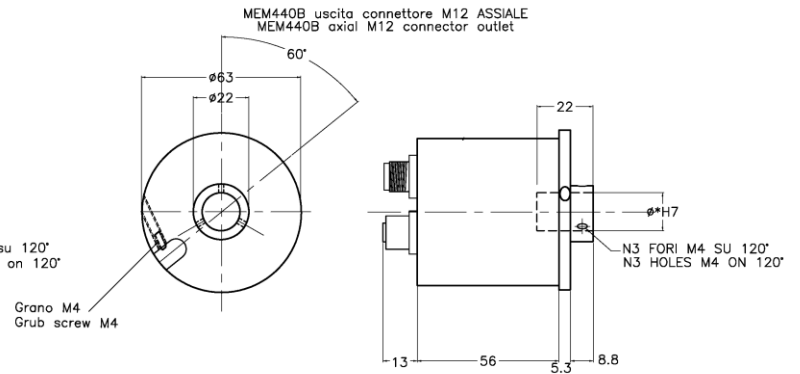
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- * AVAILABLE SHAFT DIAMETERS
8mm-10mm
shaft diameter 6mm length 10mm



- * FORO DISPONIBILE nei diametri
8mm-10mm-12mm-14mm-15mm
- * AVAILABLE HOLE DIAMETERS
8mm-10mm-12mm-14mm-15mm



- * FORO DISPONIBILE nei diametri
8mm-10mm-12mm-14mm-15mm
- * AVAILABLE HOLE DIAMETERS
8mm-10mm-12mm-14mm-15mm



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QUICK REFERENCE GUIDE



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MEM-BUS PROFINET ENCODER PROFILE

- Encoder Profile V4.1 version 3.162
- Application class 3 – 4
- RT real-time & IRT real-time isochronous transmission mode
- Parameter entering via TCP/IP
- Standard Telegram 81 – User Telegram 860

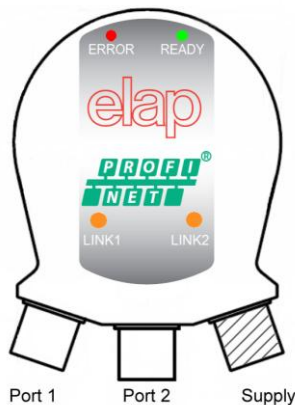
MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

MEM-Bus	620/520/540	440/450
• Materials: case	Aluminium	
shaft	Stainless steel	
• Weight	500 g ca.	
• Shaft/joint hole Ø	6, 8, 10 mm	8, 10, 12, 14, 15 mm
• Revolutions/minute	6000	
• Starting torque	≤0.8 Ncm	
• Inertia	≤25 g cm ²	
• Max load	80 N axial/100 N radial	
• Vibrations resistance (10÷2000 Hz)	100 m/sec ²	
• Shock (11 ms)	50 G	
• Protection degree	IP67 – IP65 shaft side	
• Operating temperature	-30 ÷ 70°C	
• Stacking temperature	-30 ÷ 85°C	

ELECTRICAL & OPERATING SPECIFICATIONS

• Operating principle	Magnetic
• Resolution/revolution	8192 steps/rev – 13 bit
• Revolutions no. (multiturn)	65536 - 16 bit
• Initializing time	< 1 s
• Data memory	>20 years No motion – power off
• Fieldbus	PROFINET
• Supply	10 ÷ 30 Vdc Protection against polarity reversal
• Power consumption	2 W
• Accuracy	± ½ LSB
• Connection	2 M12 female connectors +1 M12 male connector
• Interference immunity	EN 61000-6-2
• Emitted interference	EN61000-6-4

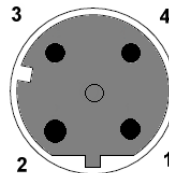
CONNECTIONS



Connectors and LEDs position

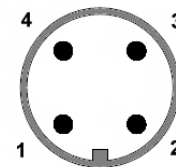
PROFINET connectors port 1 and port 2 M12 female type, D code

Pin	Signal
1	Tx +
2	Rx +
3	Tx -
4	Rx -



SUPPLY CONNECTOR M12 male type, A code

Pin	Signal
1	Supply voltage (10-30 V DC)
2	N.C.
3	GND (0V)
4	N.C.



REFERENCES

MANUALS, SOFTWARE and DIMENSIONAL DRAWINGS can be downloaded at:

<https://www.elap.it/absolute-encoders/encoder-mem-bus-profinet/>



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