elap MEM-BUS EtherNet/IP™

GUIDA RAPIDA

PROFILO ENCODER MEM-BUS EtherNet IP™

- **Rif IEC61784-1** Profilo del dispositivo **Protocollo CIP™**, profilo encoder 22H
- Livello fisico EtherNet/IP™ 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Codifica dati in uscita: binaria
- Tempo di ciclo ≥ 1 ms • Velocità di trasmissione 100 Mbit/s
- Trasmissione: Cavo CAT-5, schermato (STP), ISO/IEC 11801

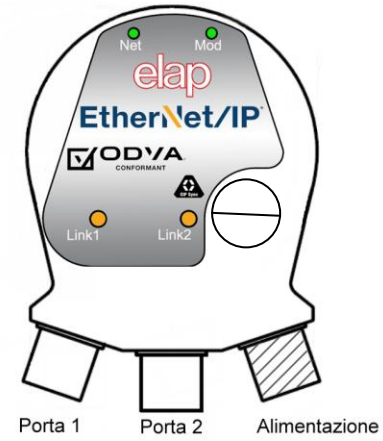
CARATTERISTICHE MECCANICHE ED AMBIENTALI

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 ammesso	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	EtherNet/IP™
• 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



Connettore Port1 e Port2
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.(10–30Vdc)
2	N.C.
3	GND (0V)
4	N.C.

Connessioni tramite 2 connettori M12 femmina D-coding + 1 connettore M12 maschio (alimentazione)

RIFERIMENTI

MANUALI, SOFTWARE e DISEGNI DIMENSIONALI scaricabili all'indirizzo:

https://www.elap.it/it/encoder-assoluti/encoder-mem-bus-ethernet-ip/

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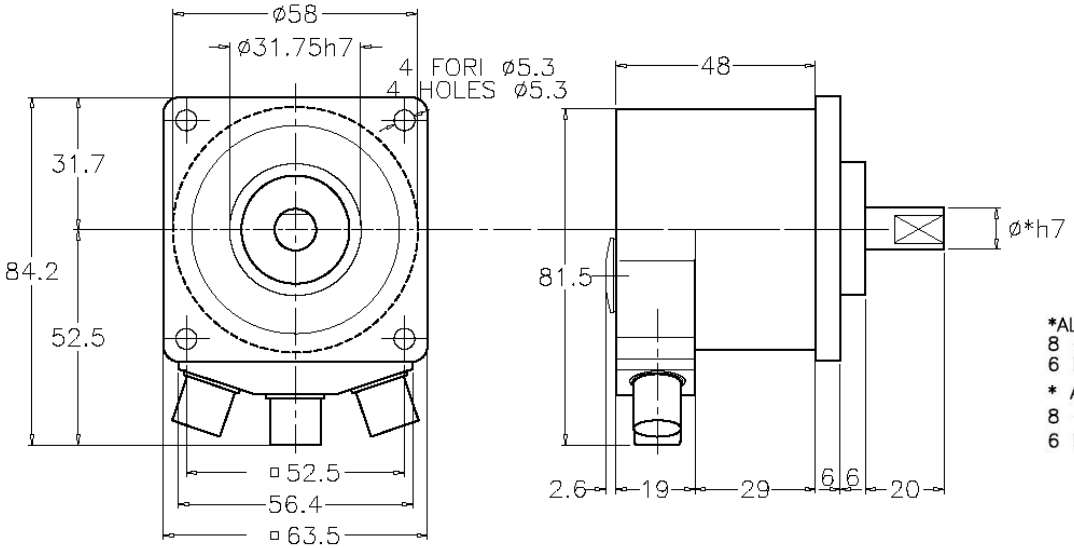
DIMENSIONI/DIMENSIONS

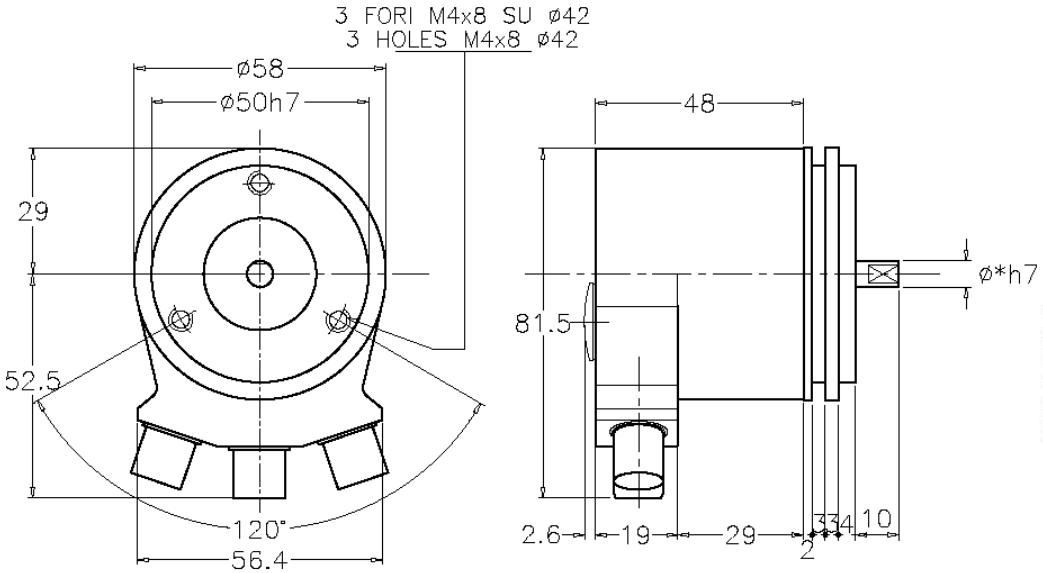
MEM620-BUS EtherNet/IP™

Ref.M2079



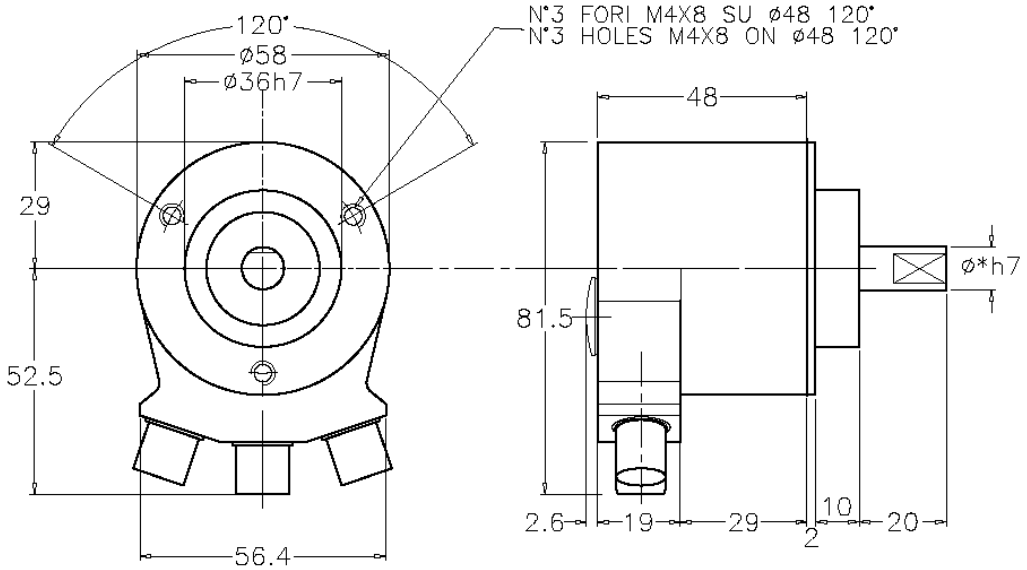
*ALBERO DISPONIBILE NEI ø
8 – 10 lunghezza 20mm
6 lunghezza 10mm
* AVAILABLE SHAFT DIAMETERS
8 – 10 length 20mm
6 length 10mm

MEM520-BUS EtherNet/IP™



*ALBERO DISPONIBILE NEI ø
8 – 10 lunghezza 20mm
6 lunghezza 10mm
* AVAILABLE SHAFT DIAMETERS
8 – 10 length 20mm
6 length 10mm

MEM540-BUS EtherNet/IP™

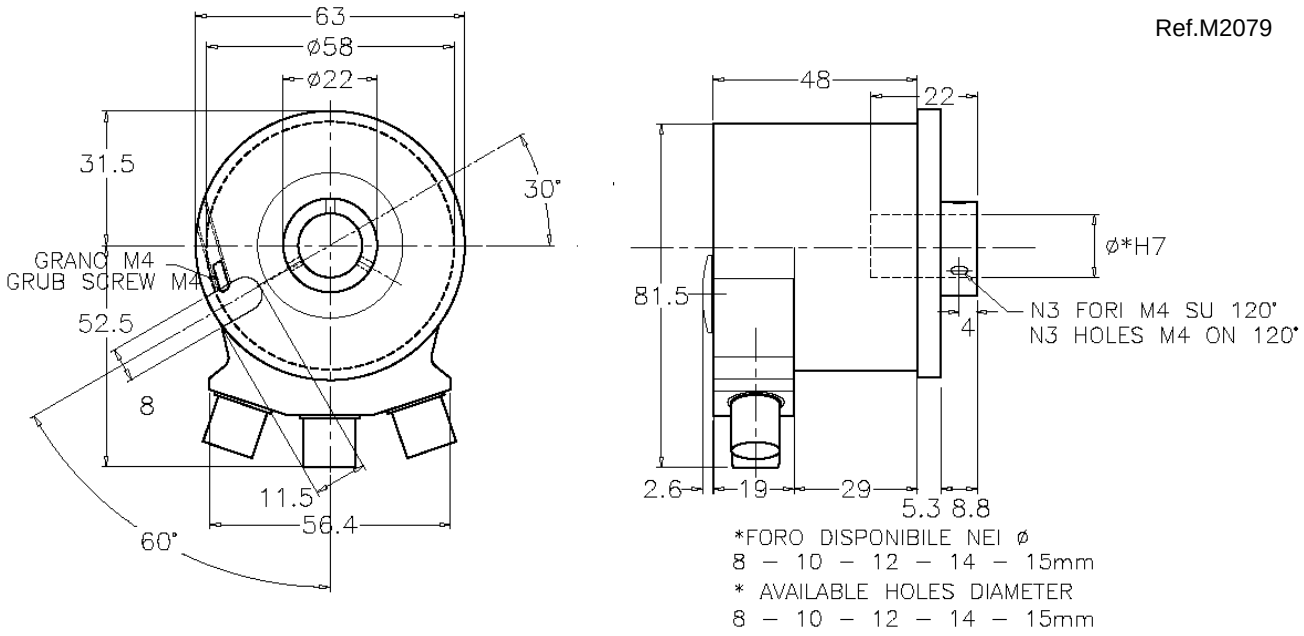


*ALBERO DISPONIBILE NEI ø
8 – 10 lunghezza 20mm
6 lunghezza 10mm
* AVAILABLE SHAFT DIAMETERS
8 – 10 length 20mm
6 length 10mm

DIMENSIONI/DIMENSIONS

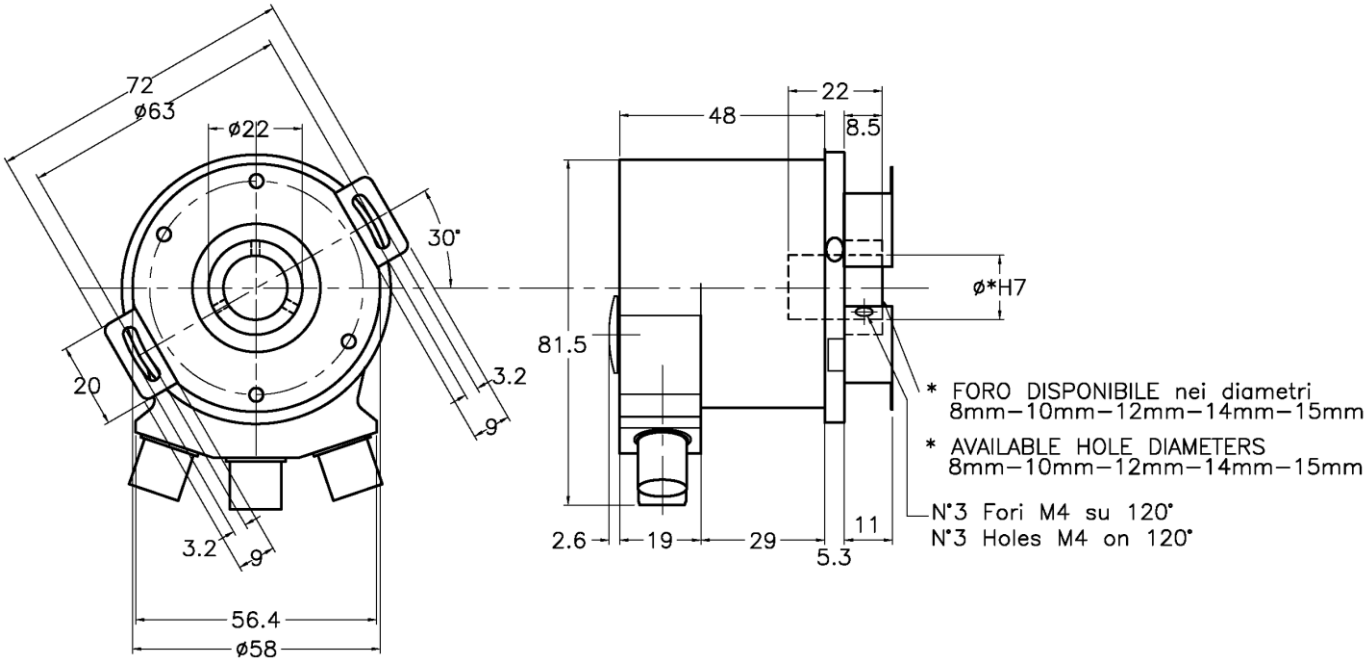
MEM440-BUS EtherNet/IP™

Ref.M2079



MEM450-BUS EtherNet/IP™

Ref.M2080



MEM–BUS EtherNet/IP™

QUICK REFERENCE GUIDE

EtherNet/IP™

ODVA CONFORMANT

CIP Sync

MEM–BUS EtherNet IP ENCODER PROFILE

- **Ref IEC61784-1** Device profile: **CIP™ Protocol, encoder profile 22H**
- Physical layer: EtherNet/IP® 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Output code: Binary
- Cycle time ≥ 1 ms • Transmission rate: 100 Mbit/s
- Transmission: Cable CAT-5, shielded (STP), ISO/IEC 11801

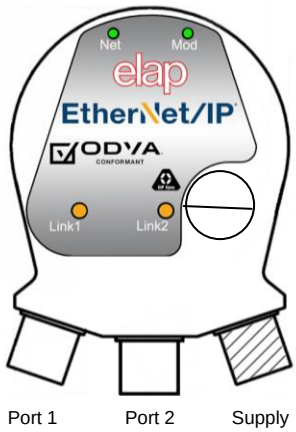
MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

MEM-Bus	620/520/540	440/450
• Materials: case shaft	Aluminium 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	
• Intertia	≤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	
• Stocking temperature	-30 ÷ 85°C	

ELECTRICAL & OPERATING SPECIFICATIONS

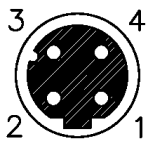
• Operating principle	Magnetic
• Resolution/revoltution	8192 steps/rev – 13 bit
• Revolutions no. (multiturn)	65536 - 16 bit
• Initializing time	< 1 s
• Data memory	>20 years No motion – power off
• Fieldbus	EtherNet/IP™
• Supply	10 ÷ 30 Vdc Protection against polarity reversal
• Power consumption	2 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



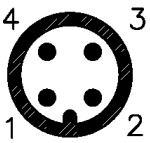
Connector Port1 and Port2
D–code female M12 connector

Pin	Signal
1	Tx+
2	Rx+
3	Tx–
4	Rx–



Supply connector
A–code male M12 connector

Pin	Signal
1	+Vsupply (10–30Vdc)
2	N.C.
3	GND (0V)
4	N.C.



Connection by 2 M12 D-coding female connectors + 1 M12 male (supply)

REFERENCES

MANUALS, SOFTWARE and DIMENSIONAL DRAWING DOWNLOAD AT:

https://www.elap.it/absolute-encoders/encoder-mem-bus-ethernet-ip/

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