



elap MEM-Bus

Single & Multi-Turn Absolute Encoders With Fieldbus Interface

- Singleturn and Multiturn Absolute Encoders
- CANopen or Profibus DP Fieldbus
- High resolution
- Several mechanical versions available
- Strong and reliable

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

TYPE	MEM520-Bus	MEM540-Bus	MEM620-Bus	MEM410-Bus	MEM430-Bus
	Ø.58 mm round flanged – servo coupling SIZE23	Ø.58 mm round flanged Ø 36 mm centering mask	mm63.5x63.5 square flanged SIZE25	Hollow shaft for motor coupling	Hollow shaft Fixing with elastic support
• Weight	500 g ca.				
• Materials: case	aluminium				
• Shaft	stainless steel				
• Shaft diameter/ Joint hole	6, 8, 10 mm			Hole Ø 8, 10, 12, 14, 15 mm	
• Revolutions/minute	6000				
• Starting torque	≤0,8Ncm				
• Inertia	≤25g cm ²				
• Max load	80 N axial / 100 N radial				
• Shock resistance (11 ms)	50 G				
• Vibration resistance (10÷2000 Hz)	100 m/sec ²				
• Protection degree	IP65				
• Operating temperature	-30 ÷ +70°C				
• Stocking temperature	-30 ÷ +85°C				

ELECTRICAL & OPERATING SPECIFICATIONS

• Operating principle	magnetic
• Resolution/revolution	8192 step/rev. – 13 bit
• Revolutions no. (multiturn)	65536/16 bit
• Initializing time	< 1 s
• Data memory	>21 years power off*
• Fieldbus Interface	CANopen, Profibus DP
• Supply	5 ÷ 28 Vdc Protection against polarity reversal
• Consumption	2 W
• Accuracy	± ½ LSB
• Connection outlet	3 cable glands or 2 cable glands
• Interference immunity	EN 61000-6-2
• Emitted interference	EN 61000-6-4

* Stopped shaft

SETTABLE PARAMETERS

- Steps/revolution
- Revolutions number
- Preset
- Rotation direction

DIAGNOSTIC FUNCTIONS

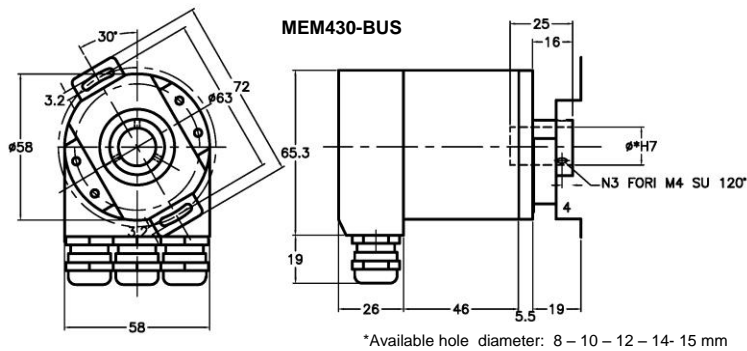
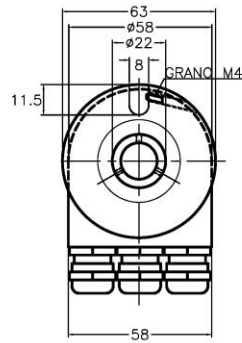
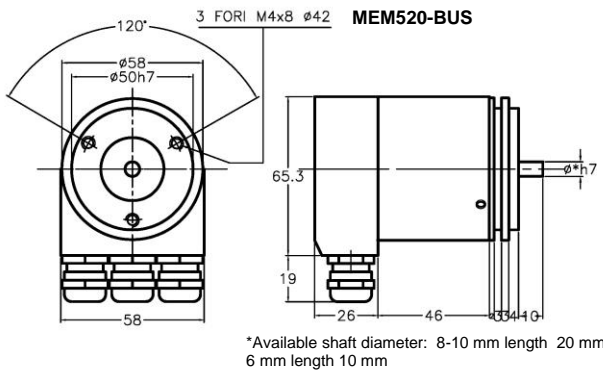
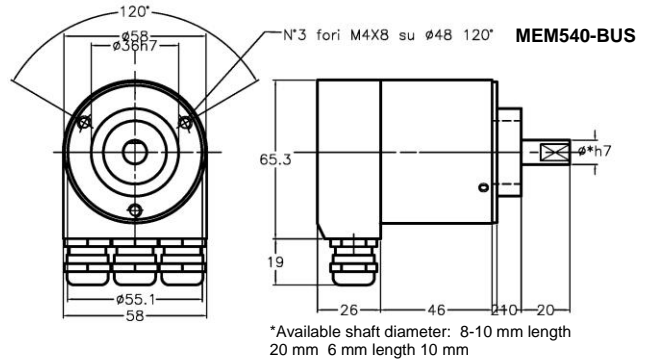
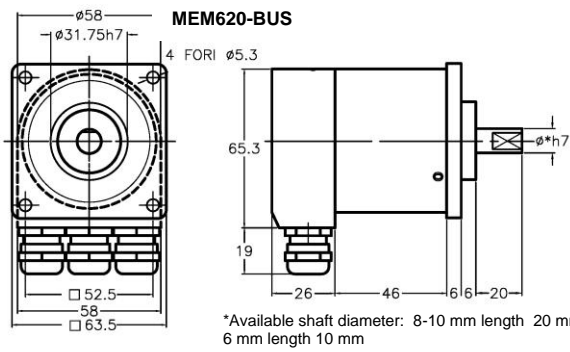
- Position or parameter error
- Battery alarm

STATE INDICATORS

- 3 signalling LEDs for
- Supply
- Line
- Error (CANopen)



DIMENSIONS



ORDERING INFORMATION

MEM520	CAN	M	10	3P
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CONNECTIONS TYPE

3P = 3 cable glands
2P = 2 cable glands

SHAFT DIAMETER/JOINT HOLE

6 - 8 - 10 - 12 - 14 - 15 mm

REVOLUTIONS NO.

M = Multiturn
S = Singleturn

FIELDBUS INTERFACE

CAN= CANopen
PDP = Profibus DP

TYPE

MEM520-Bus = 58 mm diameter round flange
MEM540-Bus = 58 mm diameter round flange
MEM620-Bus = 63.5x63.5 mm square flange
MEM410-Bus = Hollow shaft for motor coupling
MEM430-Bus = Hollow shaft with elastic support