

MAIN FEATURES

Series of miniaturized encoders with high resolution for integration on small size AC/DC motors, stepper motors or for limited size applications.

- 3 channel encoder (A / B / Z) up to 5000 ppr
- Power supply up to +30 V DC with several electrical interfaces available
- Up to 500 kHz output frequency
- No wear due to absence of bearings
- Easy assembly
- Compact size

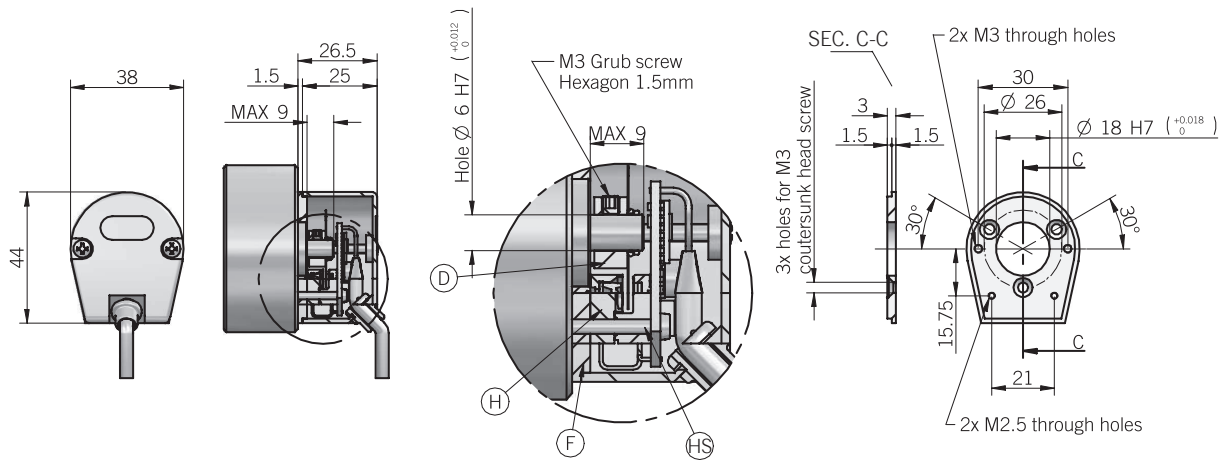


ORDERING CODE

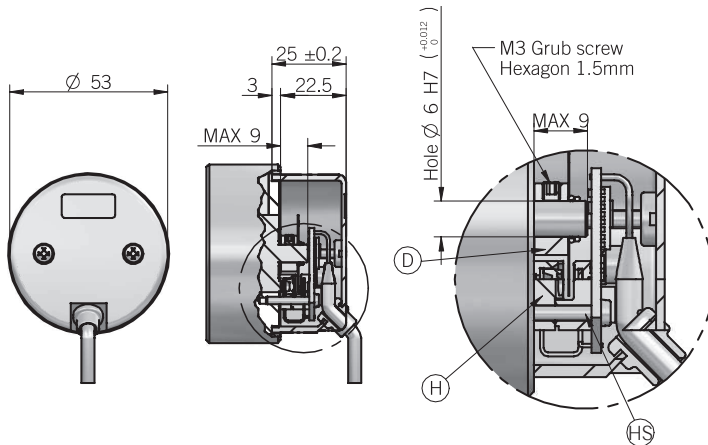
EH 30MH 2000 S 5/30 P 6 X X PR .XXX

SERIES incremental encoder series EH											
TYPE high resolution kit encoder with flange 17MH high resolution kit encoder 30MH											
RESOLUTION ppr 2000 / 2048 / 2500 / 4096 / 5000											
ZERO PULSE without zero pulse S with zero pulse Z											
POWER SUPPLY 5 ...30 V DC 5/30											
ELECTRICAL INTERFACE push-pull P line driver L power supply 5/30V - output RS-422 RS											
BORE DIAMETER mm 6 (1/4") mm 6,35											
ENCLOSURE RATING (mod. 17MH) IP40 - (mod. 30MH) IP 54 X											
OPTION to be reported X											
OUTPUT TYPE radial cable (standard length 0,5 m) PR preferred cable lengths 2 / 3 / 5 / 10 m, to be added after OUTPUT TYPE (eg. PR5)											
VARIANT custom version XXX											

17 MH



30 MH



dimensions in mm

CONNECTIONS

Function	Cable P	Cable L / RS
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
⏏	shield	shield

ELECTRICAL SPECIFICATIONS

Resolution	2000 - 2048 - 2500 - 4096 - 5000 ppr
Power supply	4,5 ... 30 V DC (reverse polarity protection)
Current consumption without load	60 mA max
Max load current	20 mA / channel
Output type*	push-pull / line driver HTL (AELC-7272) line driver RS-422 (AELT-5000 or equivalent)
Max output frequency	500 kHz
Counting direction	A leads B clockwise (shaft view)
Electromagnetic compatibility	according to 2014/30/EU directive
RoHS	according to 2011/65/EU directive
UL / CSA	certificate n. E212495

* for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

MECHANICAL SPECIFICATIONS

Bore diameter	ø 6 / 6,35 (1/4") mm
Enclosure rating	mod. 17MH IP 40 (IEC 60529) mod. 30MH IP 54 (IEC 60529) when properly installed with oring (not supplied)
Max rotation speed	6000 prm
Shock	50 G, 11 ms (IEC 60068-2-27)
Vibration	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
Moment of inertia	0,5 x 10 ⁻⁶ kgm ² (12 x 10 ⁻⁶ lbf ²)
Flange material (mod. 17)	aluminium
Hub material	EN-AW 2011 aluminium
Cover material	PA66 glass fiber reinforced
Operating temperature	-20° ... +85°C (-4° ... +185°F)
Storage temperature	-20° ... +85°C (-4° ... +185°F)
Shaft axial play	± 0,1 mm
Shaft eccentricity (plus radial play)	± 0,04 mm
Fixing torque for grub screws	40 cNm (57 Ozin) max
Weight	50 g (1,76 oz)