



EMA 22 M
SINGLETURN ABSOLUTE
MAGNETIC KIT ENCODER



MAIN FEATURES

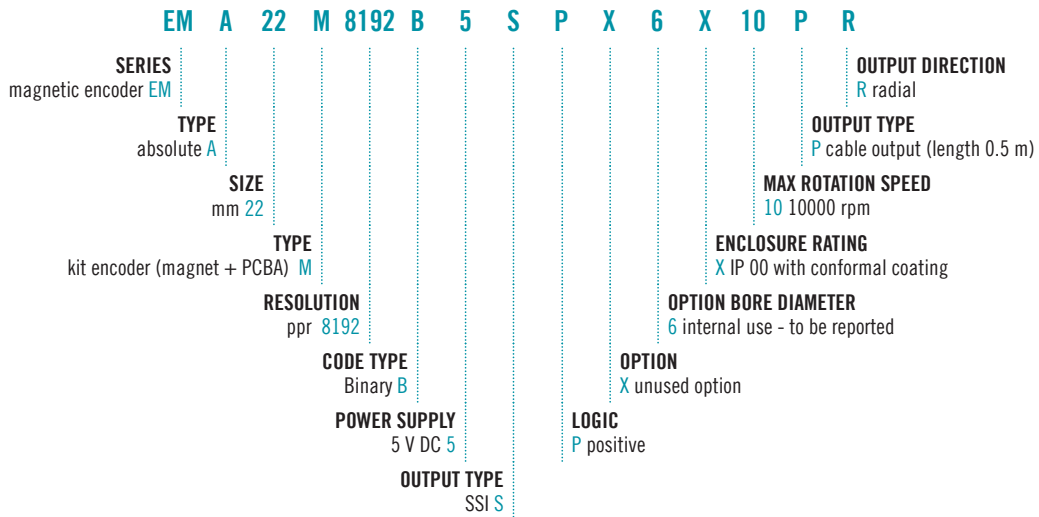
13 bits SSI singleturn absolute kit encoder for motor integration.

Ordering code

P/N description	Product code
EMA22M8192B5SPX6X10PR	93710055

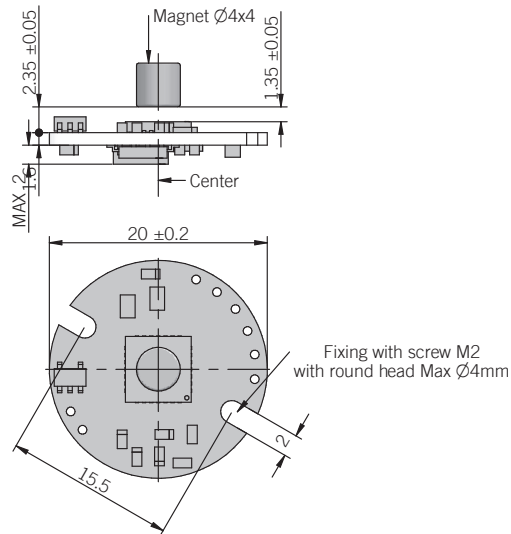
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Electrical specifications

Resolution	8192 ppr
Power supply	5 V DC \pm 5%
Current consumption without load	100 mA max
Electronic interface	RS422 SSI
SSI output code	binary
SSI clock frequency	100 KHz ... 1 MHz
SSI monostable time (T _m)	20 μ s
Accuracy	\pm 0.35° max
Counting direction	decreasing clockwise (shaft view)
Electromagnetic compatibility	IEC 61000-6-1 IEC 61000-6-4

Mechanical specifications

Magnet dimensions	4 x 4 mm
Enclosure rating	IP 00 (IEC 60529) PCBA with acrylic conformal coating
Max rotation speed	10000 rpm
Shock	50 G, 11 ms (IEC 60068-2-27)
Vibration	10 G, 10÷2000 Hz (IEC 60068-2-6)
Operating temperature	-40° ... +125 °C
Storage temperature	-40° ... +125 °C
Weight	30 g

Connections and standard colours

Wire colours	Function
black	0 Volt
red	+ Vdc
green	Data +
brown	Data -
yellow	Clock +
orange	Clock -
shield	\equiv (cable shield not connected to PCB)

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