EMI 22

MAGNETIC INCREMENTAL ENCODER

ISO 9001:2000

Main features

EM series encoders are suitable for several application fields like electric motors, marine industry, iron and steel industry, textile machines, wood-working, paper-working, glass-working, marble-working machinery and, more generally, automation and process control fields.

- Compact dimensions
- Absence of physical contact between encoder and motor shaft
- High temperature resistant
- High resolution and precision
- High protection rating
- High operating speed
- Excellent mechanical sturdiness
- Very easy mounting

Ordering code

full stop to separate special versions													
EMI	22	A	100	S	5	P	6	S	10	PR	.	XXX

XXX special version code numbered from 001 to 999

PR radial cable output (standard length 0.5 m)
PA axial cable output (standard length 0.5 m)

Max. rotation speed
10 10000 RPM

Enclosure rating
S IP68

Bore diameter (magnet-carrier)
6 ø 6 mm
8 ø 8 mm
9 ø 9.52 mm (3/8")
10 ø 10 mm

Output type
P push-pull
L line driver
please directly contact our offices for further measures

Power supply
5 V DC **5**

Zero pulse
without zero pulse **S**
with zero pulse **Z**

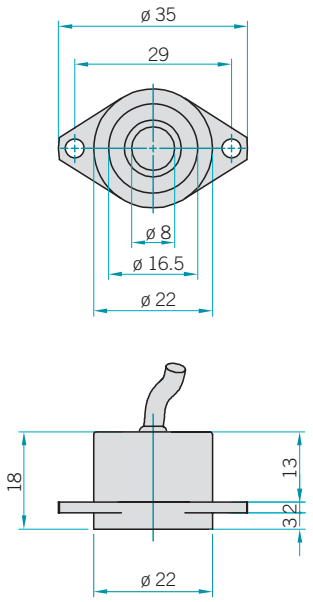
Resolution
(only powers of 2) ppr from **2** to **2048**
ppr **10 / 20 / 25 / 40 / 50 / 80 / 100 / 125 / 200 / 250 / 400 / 500**
please directly contact our offices for pulses availability

Type of flange
standard **A**

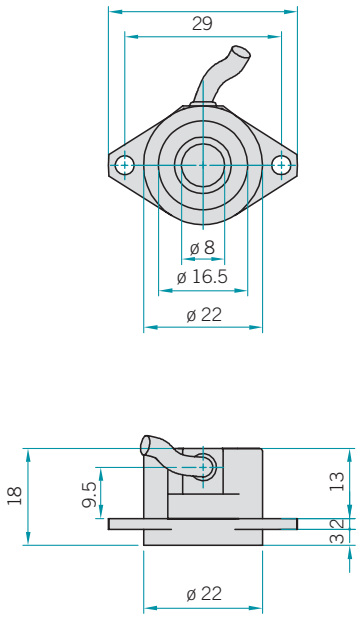
size **22**

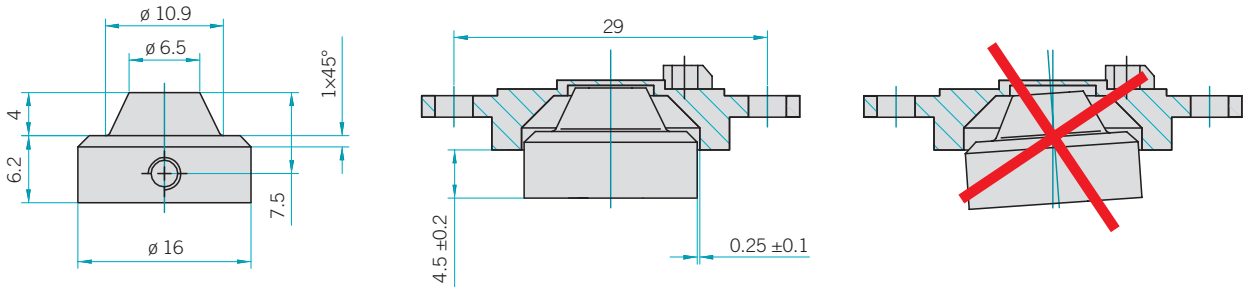
magnetic incremental encoder **EMI**

EMI **22** axial cable output



EMI **22** radial cable output





Electrical specifications

Resolution	up to 2048 ppr
Current consumption without load	100 mA max.
Max. load current	15 mA for channel
Power supply	5 V DC ±5%
Output type	line driver push-pull
Max. output frequency	200 kHz

Mechanical specifications

Bore diameter (magnet-carrier)	up to 10 mm
Enclosure rating	IP68
Max. rotation speed	10000 RPM
Shock	50 G, 11 ms
Vibration	10 G, 10÷2000 Hz
Body material	aluminium UNI 9002/5
Housing material	aluminium UNI 9002/5
Magnet-carrier material	aluminium UNI 9002/5
Operating temperature	-25÷125 °C
Storage temperature	-30÷130 °C
Weight	30 g
Mounting tolerances	axial: ±0.2 mm radial: ±0.1 mm

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