EMI 55

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	55	A	100	S	5	P	6	S	10	PR	.	XXX

EMI magnetic incremental encoder

55 size

A Type of flange: standard

100 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*

S Zero pulse: without zero pulse S; with zero pulse Z; programmable zero pulse E

5 Power supply: 5 V DC 5; 8÷24 V DC 8/24

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

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

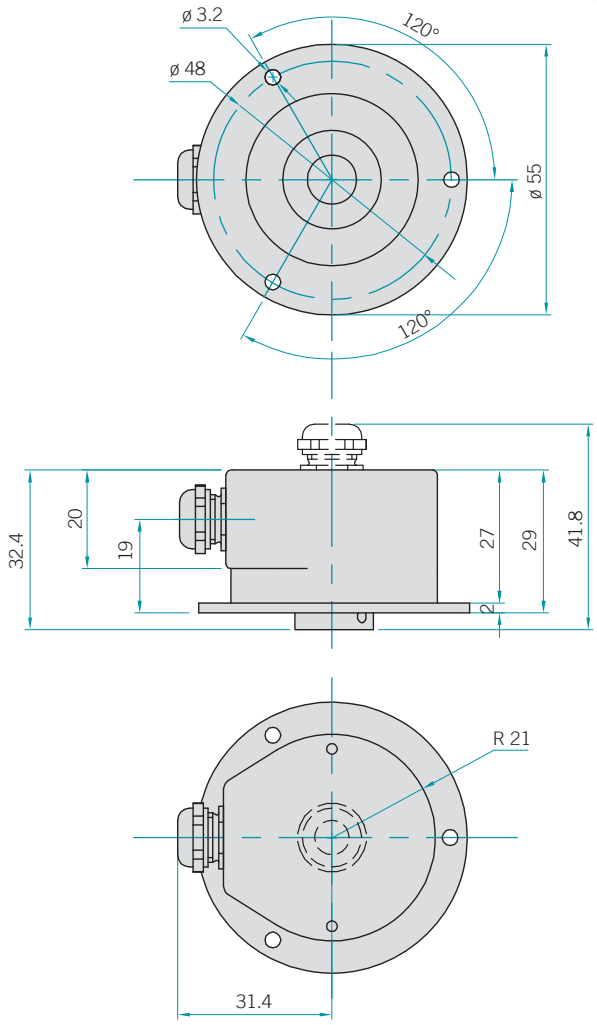
S Enclosure rating: X IP64 standard; S IP68 optional

10 Max. rotation speed: 10 10000 RPM

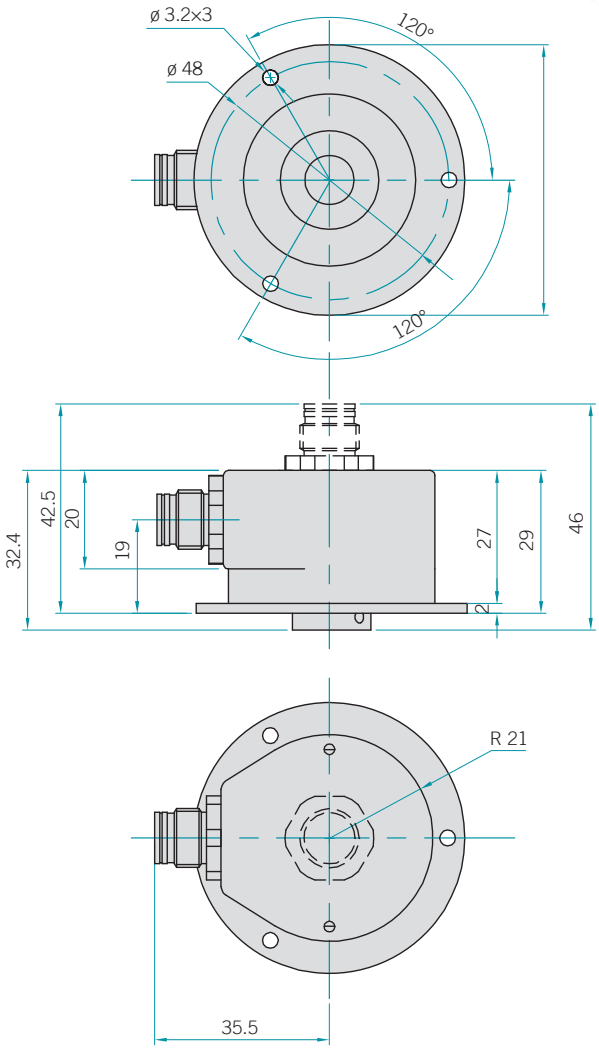
PR PA axial cable output with SKINTOP® (standard length 0.5 m); PR radial cable output with SKINTOP® (standard length 0.5 m); M12 M12 connector output

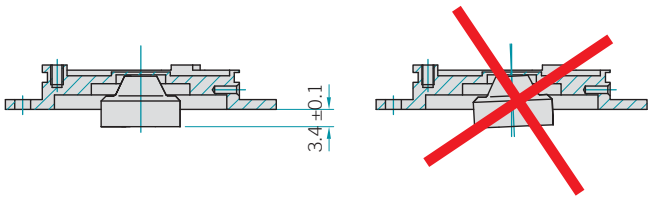
XXX special version code numbered from 001 to 999

EMI **55** cable output



EMI **55** connector 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% 8÷24 V DC
Output type	line driver push-pull
Max. output frequency	200 kHz

Mechanical specifications

Bore diameter (magnet-carrier)	up to 10 mm
Enclosure rating	IP64 standard IP68 optional
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	150 g
Mounting tolerances	axial: ±0.2 mm radial: ±0.1 mm

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