INCREMENTAL ROTARY ENCODERS
E540/541 RE540/541

Incremental rotary encoders, with or without zero pulse, with 58 mm diameter round flange, 36 mm diameter centering mask and 3 M4 fixing holes on diameter 48 mm.
The compact electronic circuitry joins perfectly with the reliable and thoroughly tested mechanical construction, allowing to keep a favourable price/performance ratio

Complying with CE standards

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

• Dimensions	See the drawing
• Weight	**E540** 290 g **RE540** 330 g
• Materials: case shaft	**E540** ABS self-extinguishing / **RE540** aluminium stainless steel
• Shaft diameter	10, 9.52 or 8 or 6 mm
• Revolutions per minute	6000* continuos 10000 temporary *Max operating speed with IP65 sealing ring applied on the shaft: 3000 rpm
• Starting torque	≤0.8 Ncm
• Inertia	≤25 g cm^2
• Max. load	80N axial/100N radial
• Resistance to vibrations (10÷2000 Hz)	100 m/sec^2
• Shock resistance (11 ms)	50 G
• Protection degree	IP64 (optional IP65)
• Operating temperature	0 ÷ 70°C
• Stocking temperature	-20 ÷ 80°C

ELECTRICAL AND OPERATING SPECIFICATIONS

• Pulse code	Incremental
• Pulses/revolution	2 ÷ 25000
• Zero reference pulse	1 pulse each revolution
• Output signals	Two square waves 90° ±15° out of phase Zero pulse 90° ±15° wide
• Electronic output	push-pull, line driver, NPN or PNP open collector, NPN or PNP pull-up resistor protection against short circuits
• Supply	10÷24Vdc or 5 Vdc±5% protection against polarity reversal
• Current consumption	30÷80 mA
• Max frequency	100÷200 KHz
• Connection outlets	Axial or radial connector type MS 7p (10p for line driver output) Axial or radial cable 3 m long (1 m for line driver output)

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DIMENSIONS