



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

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| • 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* continuous 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

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|------------------------|--|
| • 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

