



α E620 / E621



Description

Incremental rotary encoders with or without zero pulse, square flanged, compatible with the international standardized series SIZE25, or with centering mask diameter 50 mm (series E650/651). The construction technology, together with the compact and innovating electronic specifications, allow to achieve high performances at a contained price level.

Mechanical and environmental specifications

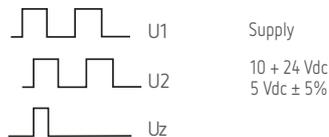
Dimensions	See the drawing
Weight	E620 - 320 g / RE620 - 440 g
Materials: Case	E620 ABS self-extinguishing / RE620 aluminium
Shaft	Stainless Steel AISI 303
Shaft diameter	6 - 8 - 9.52 - 10 mm
Revolutions per minute	6000* continuous / 10000 temporary
Starting torque	≤ 0.8 Ncm ²
Inertia	≤ 25 g cm ²
Max load	80 N axial - 100 N radial
Vibration resistance (10÷2000 Hz)	100 m/sec
Shock resistance (11ms)	50 G
Protection degree	IP64 (optional IP65)
Operating temperature	-10 ÷ +70°C
Stocking temperature	-20 ÷ 80°C

Electrical and operating specifications

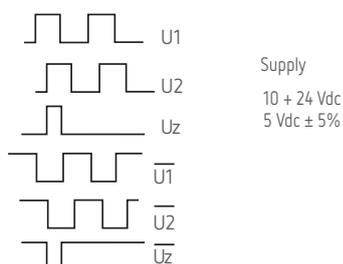
Pulse code	Incremental
Pulses-revolution	2 ÷ 36000
Zero reference pulse	1 pulse each revolution
Output Signals	Two square waves 90°±15° out of phase. Zero pulse 90°±15° wide
Electronic output	Push-pull, line-driver, open collector NPN, pull-up resistor NPN. Protection against short circuits
Supply	10÷24 Vdc 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)

Electronics

Open collector - pull-up resistor - push-pull



Line driver



With connection diagram 1-3-4: signal U2 lags signal U1 with clockwise rotation (seen from the shaft side).

With connection diagram 2: signal U2 lags signal U1 with anticlockwise rotation (seen from the shaft side).

