

∝ E520 / E521





Description

Incremental rotary encoders with or without zero pulse, fit to servo-coupling, and compatible to the international standardized series SIZE23; a flange type RE0444 is also available (series RE530). The compact electronic circuitry joins perfectly with the reliable and thoroughly tested mechanical construction, allowing to keep a favourable price/performance relation.

Mechanical and environmental specifications

Dimensions	See the drawing
Weight	E520 280 g - RE520 320 g - RE530 600 g
Material: Case	E520 ABS self-extinguishing / RE520/RE530 aluminium
Shaft	Stainless steel AISI 303
Shaft diameter	6 or 8 or 10 mm / RE530 11 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
Max load	80 N axial / 100 N radial
Vibrations resistance (10÷2000 Hz)100) m/sec
Shock resistance (11ms)	50 G
Protection degree	IP64 (optional IP 65)
Operating temperature	-10 ÷ +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, open collector NPN or PNP, pull-up resistor NPN or PNP. Protection against short circuits
Supply	10÷24 Vdc or 5 Vdc±5%. Protection against polarity reversal
Current consumption	30÷80 mA
Max frequency	100 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)

Electriconics

• Open collector - pull-up resistor - push-pull



Supply	
10 ÷ 24 Vdc 5 Vdc ± 5%	



Supply 10 ÷ 24 Vdc 5 Vdc ± 5% 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).



Connections

Open collector - pull-up resistor - push-pull



E520 , without zero pulse

E521 , with zero pulse

RE520, without zero pulse, aluminium case

RE521, with zero pulse, aluminium case

SERIES RE530/RE531- aluminium case, flange RE0444

Ordering information



The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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