

α SE/SEB/SEB-Z



SENSORS & CONTROLS

## Description

Incremental rotary encoders, monodirectional (SE) or bidirectional (SEB), with (SEB-Z) or without zero pulse. Accurate and reliable, their stout mechanical features make them fit to applications even in very harsh conditions.

## Mechanical and environmental specifications

Dimensions	See the drawing	
Weight	400 g	
Materials: Case shaft	Aluminium + ABS self-extinguishing Stainless steel AISI 303	
Shaft diameter	10 mm	
Revolutions per minute	6000*continous - 1000 temporary	
	* Max operating speed with IP65 sealing ring applied on the shaft: 3000 RPM	
Starting torque	≤ 0,8 Ncm	
Inertia	$\leq$ 25 g cm <sup>2</sup>	
Max load	80N axial / 100N radial	
Shock resistance (11 ms)	50 G	
Protection degree	IP 64 (optional IP65)	
Operating temperature	0 ÷ +60°C	
Stocking temperature	-20 ÷ 80°C	
Mounting fittings	Supporting arm of cast alluminium Measuring wheels development of 200 or 500mm	

## Electrical and operating specifications

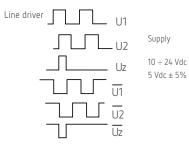
Pulse code	Incremental		
Output Signals	SE SEB/SEB-Zs	Square wave Two square waves 90°±15° out of phase. Zero pulse 90°±15° wide	
Electronic output	Push-pull, open collector NPN, pull-up resistor		
NPN, line driver	Signals protection against short circuits		
Supply	10 ÷ 24 Vdc or 5 Vdc ±5%		
Current consumption	30 ÷ 80 mA		
Connection outlets	Axial cable 3 m long , (1 m for line driver output) Optional: axial connector type MS		
Pulses-revolution	2 ÷ 5000		
Zero reference pulse	SEB-Z 1 pulse each revolution		
Max frequency	100 KHz		

## Electriconics

Open collector - pull-up resistor - push-pull

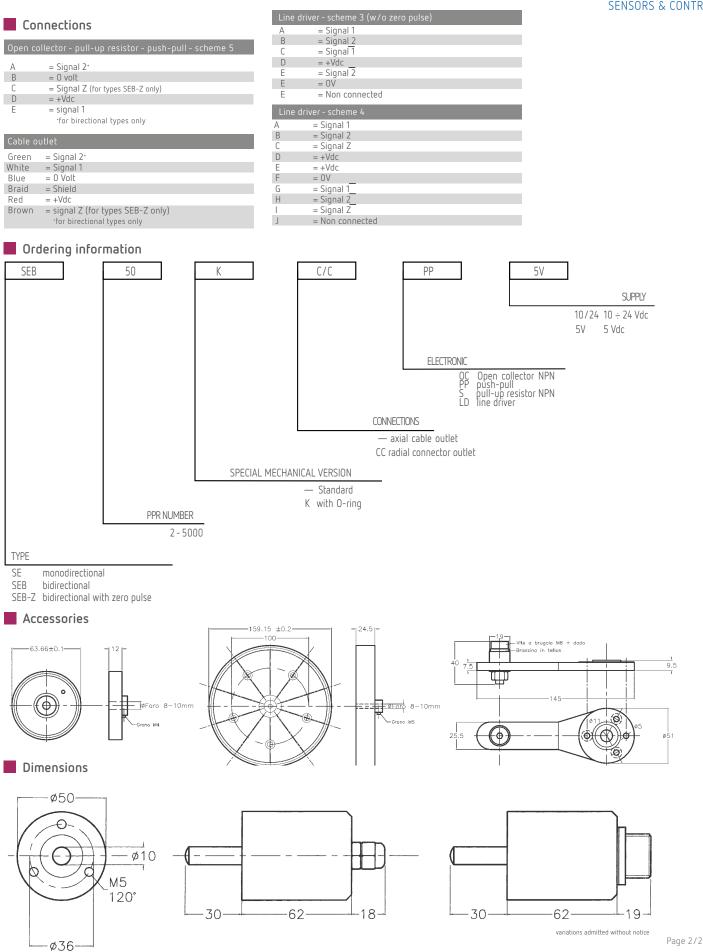


Supply 10 ÷ 24 Vdc 5 Vdc ± 5%



With connection diagram 3-4-5 (type SEB/SEB-Z only): signal 2 lags signal 1 with anti-clockwise rotation (seen from the shaft side)





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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