

EL / EF 49C-P

EL incremental encoders / EF incremental encoders + commutation phases

Incremental encoders for motor

=ltre

The encoders of the "49" series are applied on systems of retroaction on AC servomotors; they integrate more than a traditional incremental encoder, the optic generation of "Hall effect phases". The main characteristics are :

- Interchangeability with the Size 19 resolver, saving time and money, as it is necessary to have only one predisposition for the retromotor

- Easy mechanical assembly
- Simplification of the wiring through the use of a connector kit
- Contained dimensions
- High temperatures resistance
- Wide range of resolutions available

Serie EL

Base version with incremental encoder Availability of various electronic output configurations.

Serie EF

Optic generation of the "commutation phases" integrated to the base version. The transmission of signals happens in a parallel way.



General electronic characteristics	
Resolution imp./turn	From 1 to 2048
Source and Sink current	15 mA per channel with Line Driver 30 mA per channel with other electronics
Max output frequency	MAX 150KHz F= R.P.M. x Resolution 60
"EL" Electronic characteristics	
Power Supply	5 Vdc / 8+24 Vdc
Available Electronics	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Current consumption without load	100 mA
"EF" Electronic characteristics	
Power supply	5Vdc ± 5%
Electronics for incremental phases	LINE DRIVER
Electronics for Hall effect phases	LINE DRIVER/ NPN OPEN COLLECTOR
Current consumption without load	150 mA
Mechanical Characteristics	
	ø6 / ø8 / ø10 / ø12/ø12.7(1/2") H7
R.P.M.	6000 MAX
Shock Vibrations	50 G per 11 msec 5G 10 ÷ 500 Hz
Bearings	nº 2 ball bearings
Shaft material	Stainless Steel
body material cover material	Fe
Weight	100 g
weight	, y
Protection	IP40
Operating temp.	-10° ÷ + 100°C
Storage temp. Accessories	-25° + + 100°C 1) Set of 3 servo fasteners ordering code: 94080001 2) Flange for fixage on the predisposed motors "Resolver" size 19
	(for dimensions see the back)

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ELTRA reserves the right to make any modifications without prior notice

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