

**Characteristics @ 22°C**

1	Number of lines available		100, 144, 200, 256, 300, 360, 500 ⁽¹⁾ , 512 ⁽¹⁾	LPR
2	Supply voltage		5 ± 10%	Volt
3	Supply current	Typical	10	mA
		Maximum	20	mA
		Stand-by	50	µA
4	Output signal		Compatible	CMOS
5	Electrical phase shift		90 ± 20	degree
6	Duty cycle		50 ± 10	%
7	Maximum count frequency		200	kHz
8	Operating Temperature Range:		-40 (-40) to +85 (+185)	°C (°F)
9	Code wheel moment of inertia		0.12	10 ⁻⁷ x kgm ²
10	Weight		6.2 (0.22)	g (oz)

Available on motor types	22N48	22V48	23V48	23GST	25GST	25GT	26N48	28L18
L-Length with motor - mm (in)	53.9 (2.13)	56.2 (2.22)	59 (2.33)	59.2 (2.33)	63.7 (2.51)	73.65 (2.90)	62.1 (2.44)	61.5 (2.42)

Available on motor types	28LT12	28DT12	30GT	35NT	35GLT
L-Length with motor - mm (in)	64.4 (2.54)	85.8 (3.38)	88.3 (3.48)	82.6 (3.25)	92.6 (3.65)

(1) Ask for the 2R (ball bearing type) motor for use with the E9 in 500 or 512 line version

Features

- 2 channel quadrature output & index channel
- stand-by function with latched state of channels (to de-activate the stand-by mode, connect to the pin 4 to the +5V
- Compact size
- Complementary outputs
- up/down pulse signals (on request)
- Single 5vdc supply
- integrated direction of rotation detection
- CMOS capable
- ⁽¹⁾ the input Stand-by has to be connected to 0vdc or + 5vdc

Typical encoder output signal