

Dimensions in mm.

Electrical Data		Characteristics @ 22° C	Unit
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
		Maximum	20
		Stand-by	50
4	Output Signal	Compatible	CMOS
5	Electrical Phase Shift	90 ± 20	degree
6	Signal Ratio	50 ± 10	%
7	Maximum Count Frequency	200	kHz
8	Operating Temperature Range:	-40 to +85	°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	23GST	25GST	25GT	26N58
Length with motor mm (in)	69.2 (2.33)	63.7 (2.51)	73.65 (2.9)	62 (2.41)

Available on Motor Types	28L28	28LT12	28DT12	30GT	35NT	35GLT
Length with motor mm (in)	61.5 (2.42)	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

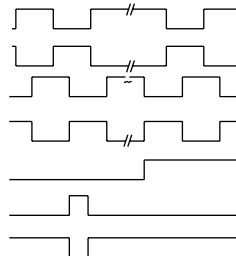
Features

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

Typical Encoder Output Signal

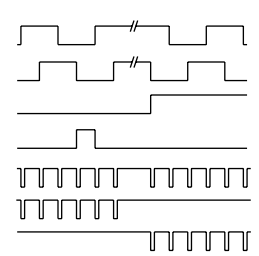
Version 1

- PIN Output
- 1 GND
 - 2 Vcc
 - 4 Standby¹
 - 6 CH A
 - 5 CH A
 - 8 CH B
 - 7 CH B
 - 3 DIR
 - 10 CH Z
 - 9 CH Z



Version 2

- PIN Output
- 1 GND
 - 2 Vcc
 - 4 Standby¹
 - 6 CH A
 - 8 CH B
 - 3 DIR
 - 10 CH Z
 - 9 Pulse
 - 5 Up
 - 7 Down



The input stand-by has to be connected