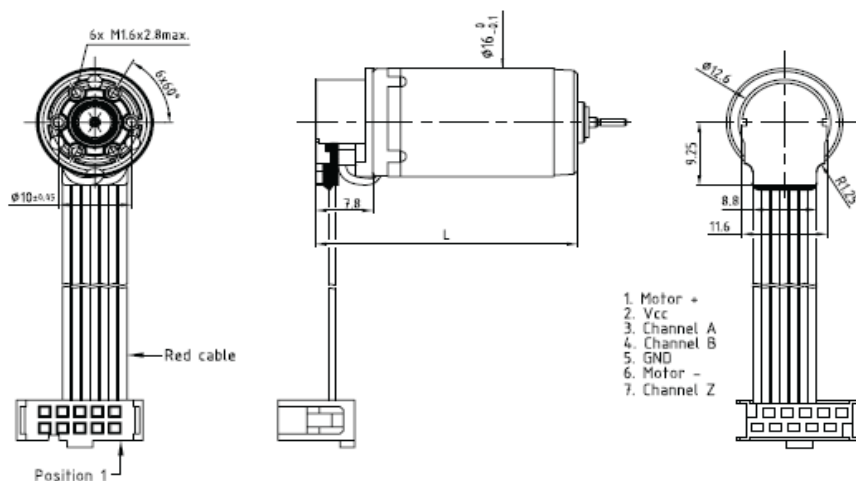
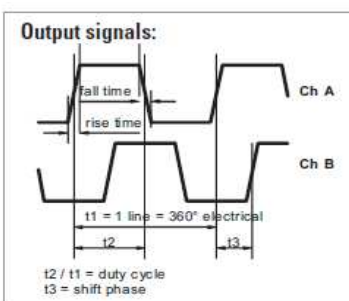


**Characteristics @ 22°C**

|                                |               |                                                                               |         |
|--------------------------------|---------------|-------------------------------------------------------------------------------|---------|
| 1 Number of lines available    |               | 512, 500, 400, 256, 250, 200, 160, 128, 100, 80, 64, 50, 40, 32, 20, 16, 8, 4 | LPR     |
| 2 Supply voltage               |               | 5 ± 10%                                                                       | Volt    |
| 3 Supply current               | Typical / Max | 20/25                                                                         | mA      |
|                                | Rise Time     | 60                                                                            | ns      |
|                                | Fall Time     | 60                                                                            | ns      |
| 4 Maximum count Frequency      |               | 1.28                                                                          | MHz     |
| 5 Electrical phase shift       |               | 90 ± 45                                                                       | degree  |
| 6 Duty cycle                   |               | 50 ± 15                                                                       | %       |
| 7 Maximum speed @ 512          |               | 37,500                                                                        | rpm     |
| 8 Operating Temperature Range: |               | -25 (-13) to +85 (+185)                                                       | °C (°F) |
| 9 Weight                       |               | Varies by motor size. Contact us.                                             | g (oz)  |

|                                 |              |              |              |              |              |              |              |              |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Available on motor types</b> | <b>12G88</b> | <b>13N88</b> | <b>16G88</b> | <b>16N48</b> | <b>16N98</b> | <b>17S98</b> | <b>17N78</b> | <b>22N48</b> |
| L-Length with motor - mm (in)   | 33.8 (1.33)  | 34.35 (1.35) | 35.8 (1.41)  | 33.2 (1.31)  | 33.2 (1.31)  | 24.8 (0.98)  | 31.1 (1.22)  | 39.4 (1.55)  |

|                                 |              |              |              |
|---------------------------------|--------------|--------------|--------------|
| <b>Available on motor types</b> | <b>22N98</b> | <b>22V48</b> | <b>25GST</b> |
| L-Length with motor - mm (in)   | 39.35 (1.55) | 41.65 (1.64) | 53.9 (2.12)  |

**Output connector:**

1. Motor +
2. Vcc
3. Channel A
4. Channel B
5. GND
6. Motor -
7. Channel Z

Connector 10 poles  
type Quickie II or equivalent  
DIN 41651 A (UL E68080)

